



1001 SW Emkay Drive, Suite 140  
Bend, OR 97702  
P 541.312.8300

# Technical Memorandum

September 11, 2025

Project# 29385

To: Todd Johnson & Garrett Sabourin  
City of Bend

From: Matt Kittelson, PE, Jacki Smith, PE, Pavithran Balan, Kittelson & Associates, Inc.

RE: Bend Midtown Crossing - Greenwood Traffic Monitoring: Post-Construction January 2025

## TRAFFIC MONITORING SUMMARY

As part of the Midtown Crossing Progressive Design Build effort, Kittelson & Associates, Inc. (Kittelson) is supporting a traffic data monitoring inventory for the Greenwood Avenue Quick Build. The Quick Build is a pilot project to evaluate the safety and operations impact of transforming the existing roadway on Greenwood Avenue from 2<sup>nd</sup> Street to Wall Street to a three-lane cross section with buffered bike lanes. Kittelson will monitor the pre- and post-construction volume, travel speed, and travel time data to assess the project's effects on traffic operations.

The memorandum documents the findings after the third round of post-construction data collection in June 2025. **Notes and observations related to the June 2025 data are bolded in this report.**

As part of the monitoring process, the following data were collected:

- Traffic Count Data
  - 48-hour travel volume, speed, and vehicle classification data for vehicles
  - 48-hour pedestrian and bicycle volumes
- Travel Time Data
  - Google API
  - INRIX

Data will be collected during the following time periods for evaluation:

- Pre-construction – May 2024 (Complete and included in this memorandum)
- Post-construction 1 – September 2024 (Complete and included in this memorandum)
- Post-construction 2 – January 2025 (Complete and included in this memorandum)
- Post-construction 3 – June 2025 (**Complete and included in this memorandum**)

## Data Collection Conditions

---

This section provides a summary of conditions during each data collection period. The purpose of this summary is to note conditions during the data collection period so that trends can be identified over time, as travel patterns may be influenced by ideal or adverse weather conditions.

### **Pre-Construction – May 14th & 15th, 2024:**

Conditions during this data collection period were slightly warmer than seasonal averages for spring, with lows around 38°F and highs between 71-80°F. There was no reported precipitation and winds were calm. Air quality was reported to be good on both days.

### **Post-Construction 1 – September 24th & 25th, 2024:**

Conditions during this data collection period were warmer than seasonal averages for fall, with lows around 49-56°F and highs between 80-90°F. Winds ranged from calm to gusts up to 40+ mph during midday on September 25th. Air quality was moderate on the days data were collected, although the area had experienced unhealthy conditions the prior week due to late-season wildfires.

### **Post-Construction 2 – January 29th & 30th, 2025:**

During this period of data collection, temperatures were above the seasonal averages for winter. Early morning lows ranged from 10°F to 19°F, while midday highs were between 55°F and 59°F. Both days experienced clear and dry conditions with no residual snow present on the ground. Wind speeds were moderate, reaching up to 9 mph in the late morning.

Due to the City's dedication to implementing transportation projects and improvements, there has been significant construction activity throughout the City. As part of the ongoing Awbrey Butte Waterline Improvement project, Portland Avenue from 1st Street to 9th Street was closed in November 2024 and is expected to remain closed until the spring. The designated detour directed traffic south on 9th Street and east to Greenwood Avenue/Wall Street. These conditions were not present during either the May or September data collection periods.

### **Post-Construction 3 – June 4th & 5th, 2025:**

In early February 2025 the Olney Pedestrian and Bicycle Improvements Project began construction. Construction included a closure of Olney Avenue between Wall Street and 2<sup>nd</sup> Street. The intersection of Olney Avenue and Wall Street was closed until May 23<sup>rd</sup>. During that period, travel patterns changed throughout the core area to account for the intersection closure. Traffic data was collected 2 weeks after the opening of the Olney Avenue/Wall Street intersection. Olney Avenue between Wall Street and 2<sup>nd</sup> Street continues to be closed to all traffic.

Conditions during this data collection period were higher than seasonal averages with lows around 44 degrees and highs averaging 78 degrees. Wind speeds reached up to 27mph. Conditions were dry both days data was collected.

## Traffic Count Data Analysis

Traffic counts and speed data were collected to understand the pre- and post-construction travel demand on Greenwood Avenue. For each round of data collection, two days (48 hours) of vehicle, pedestrian, and bicycle counts were collected at two locations:

- Greenwood Avenue between Harriman Street and Hill Street (west of Hill Street).
- Greenwood Avenue between Hill Street and 1<sup>st</sup> Street (east of Hill Street near the undercrossing).

The data were collected on the following dates:

- Pre-construction: Tuesday May 14, 2024, and Wednesday May 15, 2024
- Post-construction 1: Tuesday Sep 24, 2024, and Wednesday Sep 25, 2024
- Post-construction 2: Wednesday Jan 29, 2025, and Thursday Jan 30, 2025
- **Post-construction 3: Wednesday June 4, 2025 and Thursday June 5, 2025**

The volume and speed data during pre-construction, post-construction 1, post-construction 2, and post-construction 3 periods are provided in Appendix A, Appendix B, Appendix C, and Appendix D, respectively.

### Vehicle Volume

Kittelson analyzed the traffic volumes by averaging two days of data, as shown in Table 1. Key findings are summarized below:

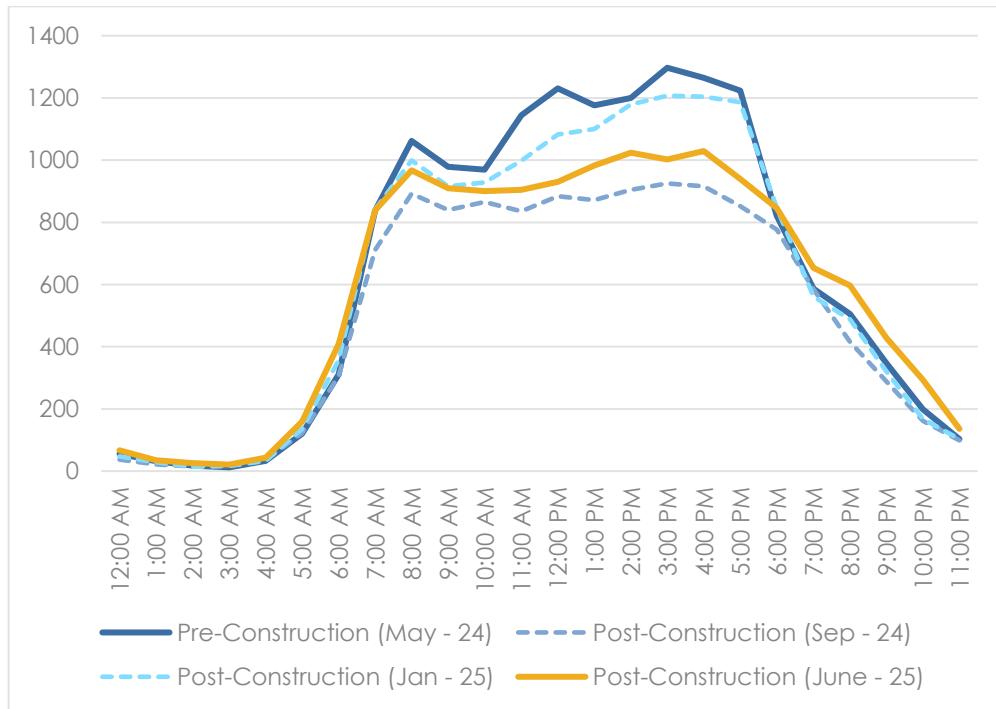
- Compared to pre-construction levels in May 2024, in September 2024, after the project's implementation, vehicle volumes dropped by 18 percent east of Hill Street and 20 percent west of Hill Street. In January 2025, volumes had rebounded to just four and five percent below pre-construction levels, **and in June 2025, volumes remain six and nine percent below pre-construction levels, respectively.**
- At both count locations, the eastbound traffic volumes were less elastic, showing a lesser extent of reduction in September 2024 and a faster rebound in January 2025. **In June 2025, the eastbound volumes remain similar to pre-construction levels, while the westbound volumes dropped six to twenty-one percent below May observations.**

Table 1 Greenwood Avenue Daily Volume

Location and Direction	Pre-construction	Post-construction		Post-construction		Post-construction	
	May-24	Sep-24		Jan-25		Jun-25	
	Volume	Volume	% Difference from Pre-Construction	Volume	% Difference from Pre-Construction	Volume	% Difference from Pre-Construction
<b>East of Hill Street</b>							
Eastbound traffic	10,079	8,492	-16%	9,909	-2%	<b>9,436</b>	<b>-6%</b>
Westbound traffic	7,842	6,227	-21%	7,325	-7%	<b>7,393</b>	<b>-6%</b>
<b>Total traffic</b>	<b>17,921</b>	14,719	-18%	17,234	-4%	<b>16,829</b>	<b>-6%</b>
<b>West of Hill Street</b>							
Eastbound traffic	8,526	7,103	-17%	8,619	1%	<b>8,603</b>	<b>1%</b>
Westbound traffic	7,046	5,313	-25%	6,191	-12%	<b>5,541</b>	<b>-21%</b>
<b>Total traffic</b>	<b>15,572</b>	12,416	-20%	14,810	-5%	<b>14,144</b>	<b>-9%</b>

Figure 1 shows the hourly volume distribution on Greenwood Avenue west of Hill Street pre- and post-construction. The initial post-construction period (September 2024) shows a notable decrease in volumes between 7:00 AM and 7:00 PM, resulting in a "flatter" peak period with more consistent hourly volumes throughout the day. During this period, the maximum volume was 925 vehicles per hour, compared to 1,297 vehicles per hour pre-construction. The second post-construction period (January 2025) volumes rebounded and showed a higher afternoon peak, with a maximum of 1,207 vehicles per hour. However, **In the third post-construction period (June 2025) vehicle volumes decreased from January volumes and again exhibit a "flatter" peak period similar to September volumes between 7:00 AM and 7:00 PM. During this period, the maximum volume was 1,029 vehicles per hour.**

**Figure 1 Greenwood Avenue Volume Distribution by Time of Day (Bidirectional)**



## Vehicle Speed Distribution

### Daily Speed Analysis

Speed data were reported in five-mph intervals from the collected counts. The counts were set at midblock locations so that the recorded speeds were not affected by traffic control at intersections. Kittelson aggregated the two days of data and identified the 85<sup>th</sup> percentile speed, as shown in Table 2. Key findings are summarized below:

- **In general, the 85<sup>th</sup> percentile speeds dropped by two to five mph at both directions and count locations for all three post-construction periods.**
- The 85<sup>th</sup> percentile speeds were higher at the count location east of Hill Street compared to the location west of Hill Street. And the eastbound 85<sup>th</sup> percentile speeds were slightly faster than westbound. The trends are consistent pre- and post-construction.

**Table 2 Greenwood Avenue 85<sup>th</sup> Percentile Speed (mph)**

Location and Direction	Pre-Construction	Post-Construction 1	Post-Construction 2	Post-Construction 3
	May-24	Sep-24	Jan-25	Jun-25
<b>East of Hill Street</b>				
Eastbound	34	32	33	<b>31</b>
Westbound	33	29	29	<b>29</b>
<b>West of Hill Street</b>				
Eastbound	32	28	28	<b>27</b>
Westbound	30	26	28	<b>27</b>

To supplement the 85<sup>th</sup> percentile speed metric, Kittelson also analyzed the time-of-day trend of average speed by assigning an estimated speed to each vehicle based on the five-mph interval recorded. For example, if a vehicle's speed was between 26 mph and 30 mph, its speed was assumed to be 28 mph. The following trends were found:

- Average speed during peak hours dropped post-construction.
  - Pre-construction, the average speed ranged from 25 mph to 35 mph, except for westbound traffic at the west of Hill Street location, which dropped to 22 mph around noon (12 PM to 2 PM).
  - **During all post-construction periods, average speeds generally ranged from 20-35 mph, except for westbound traffic which dropped below 20 mph (to a minimum of 14 mph) between 11 AM and 5 PM during post-construction period 2 (January 2025). However, by post-construction period 3 (June 2025), westbound traffic rebounded and returned to the average speed range of 20-35 mph consistent with the eastbound traffic.**

Similar to the trend found through 85<sup>th</sup> percentile speeds, the estimated average speed of eastbound traffic is slightly higher than westbound traffic.

## “Free Flow” Condition Speed Analysis

Kittelson analyzed average speeds on the corridor during non-peak times, comparing pre- and post-construction data without the likely influence from congestion. Figure 1 shows vehicle volumes on Greenwood Avenue rise at 7am and stay steady until 6pm, indicating speed may be influenced by congestion and/or queuing. To see how speeds on the corridor behave during “free-flow” or non-peak period conditions, Kittelson examined average speeds for pre- and post-construction from 6-7am, 6-7pm, and 7-8pm. Data is presented in Table 3 and key findings are summarized below:

- Vehicle speeds decrease from pre-construction to post-construction
  - **Both east and west of Hill Street experienced drops in speed in the eastbound and westbound directions after construction in September, January, and June.**
  - **Speeds east of Hill Street decreased on average by 7mph in September, 3mph in January, and by 3mph in June, compared to pre-construction speeds**
  - **Speeds west of Hill Street decreased on average by 2mph in September, 4mph in January, and by 5mph in June, compared to pre-construction speeds**

**Table 3 Greenwood Avenue Average Speed (mph) in "Free Flow" Conditions**

Time Period	Location and Direction	Pre-Construction	Post-Construction 1	Post-Construction 2	Post-Construction 3
		May-24	Sep-24	Jan-25	Jun-25
<b>EAST OF HILL ST</b>					
6:00-7:00am	Eastbound	32	29	32	<b>30</b>
	Westbound	33	29	29	<b>29</b>
6:00-7:00pm	Eastbound	32	29	30	<b>28</b>
	Westbound	30	26	26	<b>26</b>
7:00-8:00pm	Eastbound	32	29	30	<b>29</b>
	Westbound	31	26	27	<b>28</b>
<b>WEST OF HILL ST</b>					
6:00-7:00am	Eastbound	32	26	27	<b>28</b>
	Westbound	31	26	28	<b>28</b>
6:00-7:00pm	Eastbound	30	24	23	<b>22</b>
	Westbound	26	21	24	<b>22</b>
7:00-8:00pm	Eastbound	30	24	24	<b>24</b>
	Westbound	27	22	26	<b>24</b>

## Pedestrian and Bicycle Volume

In June 2025, volumes increased by 297 percent east of Hill Street, and 260 percent west of Hill Street compared to pre-construction counts.

Table 4, Table 5, and Figure 2 summarize the average daily pedestrian and bicycle volumes for pre- and post-construction periods. The following trends were found:

- Pedestrian volumes declined in September and January but **increased to volumes higher than pre-construction levels in June, with some redistribution between north and south sidewalks.**

Both east and west of Hill Street experienced drops in pedestrian volumes after construction in September, while the pedestrian volumes rebounded during the second post-construction period (January 2025), it remained 21 to 39 percent below pre-construction levels. **In the third post-construction period, pedestrian volumes are 9 to 81 percent higher than pre-construction volumes**

- Pre-construction, the north sidewalk had higher pedestrian volumes than the south sidewalk at both count locations. However, the north sidewalk saw larger drops in volumes in September 2024 and further declines in January 2025, **with volumes rebounding in June 2025 to 58 percent above pre-construction levels east of Hill Street and nine percent below pre-construction levels west of Hill Street.**
- In contrast, the south sidewalk saw less pedestrian activity pre-construction and was less affected by the construction. In September 2024. The volumes on the south sidewalk declined by five to ten percent. By January 2025, the volumes rebounded and exceeded the pre-construction level by 16 to 34 percent. **In June, the volumes had grown further 58 to 143 percent above pre-construction levels.**
- By June 2025, volumes on the south sidewalk had increased more substantially than on the north sidewalk. As a result, **pedestrian volumes became more balanced between the two sidewalks,**

**although a slight preference for the north sidewalk remained, particularly on the west side of Hill Street.**

- Bicycle volume dropped in January 2025 after initial increase in September 2024. Notably, weather conditions were much cooler in January 2025 compared to September 2024, consistent with typical Bend weather patterns. **By June 2025, with warmer weather and the continued use of the corridor improvements, bicycle volumes increased well beyond pre-construction levels.**
  - After the project construction which added bike lanes along the corridor, average daily bicycle volumes increased in September 2024, by 24 percent east of Hill Street and 64 percent west of Hill Street.
  - In January 2025, volumes decreased by 20 percent east of Hill Street and 35 percent west of Hill Street compared to pre-construction counts.
  - **In June 2025, volumes increased by 297 percent east of Hill Street, and 260 percent west of Hill Street compared to pre-construction counts.**

Table 4 NW Greenwood Avenue Average Daily Pedestrian Volume Summary

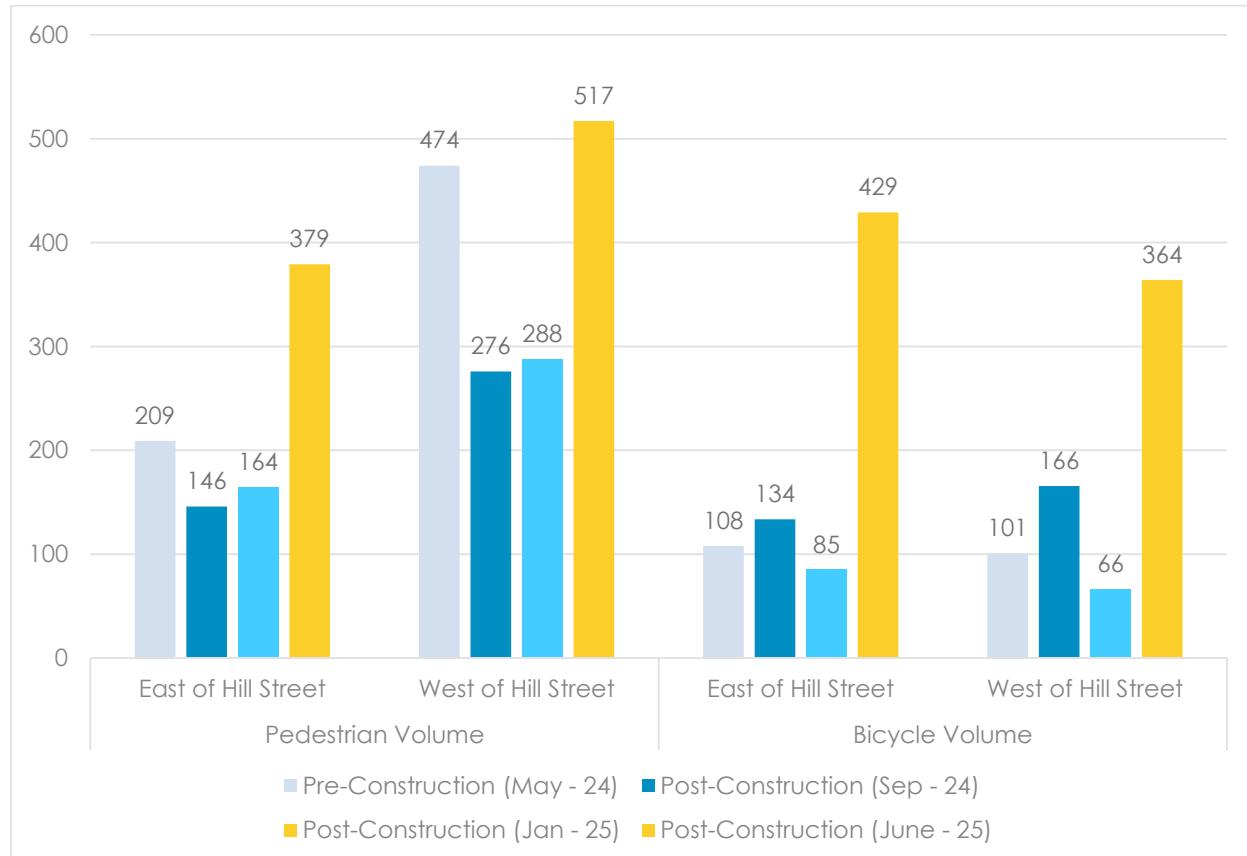
Location and Direction	Pre-construction	Post-construction		Post-construction		Post-construction	
	May-24	Sep-24		Jan-25		Jun-25	
	Volume	Volume	% Difference from Pre-Construction	Volume	% Difference from Pre-Construction	Volume	% Difference from Pre-Construction
<b>East of Hill Street</b>							
North Sidewalk	154	93	-40%	90	-42%	243	58%
South Sidewalk	56	53	-5%	75	34%	136	143%
<b>Combined Total</b>	<b>209</b>	146	-30%	165	-21%	379	81%
<b>West of Hill Street</b>							
North Sidewalk	349	163	-53%	142	-59%	318	-9%
South Sidewalk	126	114	-10%	146	16%	199	58%
<b>Combined Total</b>	<b>474</b>	<b>276</b>	-42%	288	-39%	517	9%

Note: Average volumes were rounded and might not add to total volume.

**Table 5 NW Greenwood Avenue Average Daily Bicycle Volume Summary**

Location and Direction	Pre-construction	Post-construction		Post-construction		Post-construction	
	May-24	Sep-24		Jan-25		Jun-25	
	Volume	Volume	% Difference from Pre-Construction	Volume	% Difference from Pre-Construction	Volume	% Difference from Pre-Construction
<b>East of Hill Street</b>							
Eastbound	53	71	33%	50	-6%	198	274%
Westbound	55	63	15%	36	-35%	231	320%
<b>Combined Total</b>	<b>108</b>	<b>134</b>	<b>24%</b>	<b>86</b>	<b>-20%</b>	<b>429</b>	<b>297%</b>
<b>West of Hill Street</b>							
Eastbound	55	89	61%	40	-27%	192	249%
Westbound	46	77	67%	26	-43%	172	274%
<b>Combined Total</b>	<b>101</b>	<b>166</b>	<b>64%</b>	<b>66</b>	<b>-35%</b>	<b>364</b>	<b>260%</b>

Note: Average volumes were rounded and might not add to total volume.

**Figure 2 Greenwood Avenue Daily Average Pedestrian and Bicycle Volume**

## Travel Time Analysis

---

This following section compares pre- and post-construction travel time findings from two data sources, INRIX and Google API. To monitor the cumulative, systemwide effect of the Quick Build project, three parallel corridors are included in this analysis, as shown in Figure 3 and described below.

■ **Primary Corridor:**

- Greenwood Avenue, from Wall Street to 3<sup>rd</sup> Street.

■ **Parallel Corridors:**

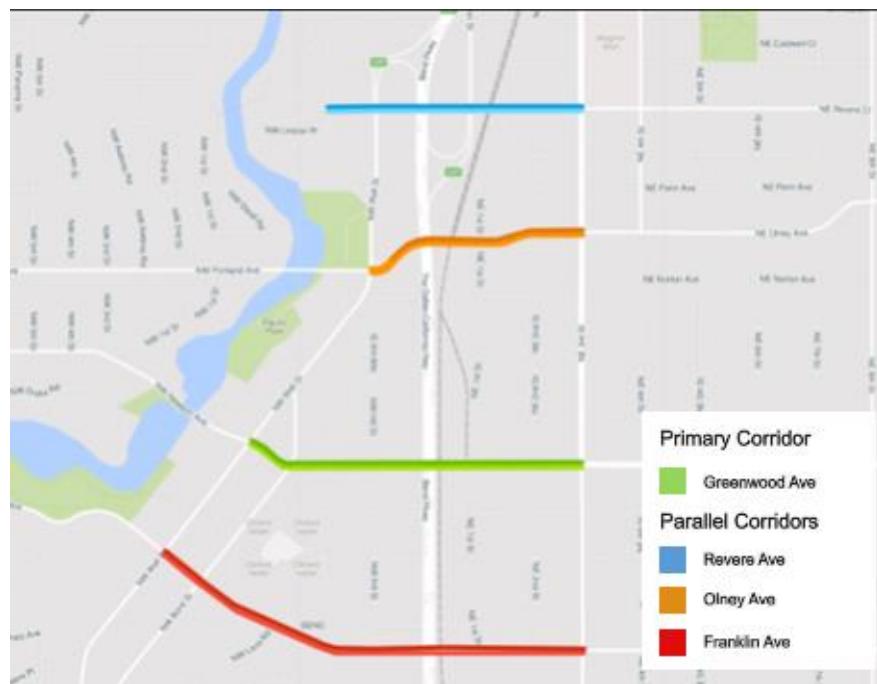
- Revere Avenue, from Harriman Street to 3<sup>rd</sup> Street.
- Olney Avenue, from Wall Street to 3<sup>rd</sup> Street.
- Franklin Avenue, from Wall Street to 3<sup>rd</sup> Street.

Travel time data were collected during the same week of volume and speed data collection. The detailed methodology is described in Appendix E.<sup>1</sup> INRIX travel time data are attached in Appendix F(pre-construction), Appendix G(post-construction 1), Appendix H(post-construction 2), and Appendix I(post-construction 3). Google API travel time data are attached in Appendix J(pre-construction), Appendix K(post-construction 1), Appendix L(post construction 2), and Appendix M(post-construction 3).

It is important to note that the INRIX and Google API data might provide different travel time results. This discrepancy can be due to various factors, such as whether intersections at the ends of the corridors are included in the reported data and different methodology used to calculate travel times - INRIX is based on data collected from GPS-enabled devices and Google API utilizes a mix of inputs including distance, posted speed limit, historical travel time, and real-time traffic conditions. Therefore, travel times are not compared directly between the data sources. Instead, trends are observed within each data source relative to pre- and post-construction conditions. Additional observations about the data are included at the end of this section.

---

<sup>1</sup> Note: For the post-construction period in January 2025, the confidence level threshold for data at 7:00 PM on eastbound Olney Avenue was lowered to 80 instead of 85 as no data were available at a confidence level of 85 or higher.

**Figure 3 Primary and Parallel Corridors**

## INRIX Travel Time Data

### Daily Average Travel Time

As shown in Table 6, in general, Greenwood Avenue travel times increased in both directions for all three post-construction periods. This is consistent with the travel lane removal and the observed drop of 85<sup>th</sup> percentile speed as described in the Vehicle Speed Distribution section. The following trends were found:

- Along eastbound Greenwood Avenue, the average travel times increased from 85 seconds to 97 seconds in September 2024, increased to 107 seconds in January 2025, **and increased to 111 seconds in June 2025. The travel times exceed pre-construction levels by 14 percent (12 seconds), 26 percent (22 seconds), and 30 percent (26 seconds)**, respectively.
- Along westbound Greenwood Avenue, the average travel times increased from 86 seconds to 100 seconds in September 2024, remained stable at 99 seconds in January 2025, **and increased to 107 seconds in June 2025, a 24 percent increase compared to pre-construction conditions.**
- Travel times along parallel corridors fluctuated between post-construction periods.
  - In September 2024, travel times generally saw a slight increase on parallel corridors.
  - In January 2025 the change of travel times fluctuate. The decrease in travel times on eastbound Revere Avenue and eastbound/westbound Olney Avenue was likely impacted by the detour and closure on Portland Avenue. Minimal change was observed on Franklin Avenue and westbound Revere Avenue.
  - **In June 2025, there were decreases in travel times on eastbound and westbound Revere Avenue, an increase in travel times on westbound Franklin Avenue, and no difference on eastbound Franklin Avenue when compared to pre-construction levels.**

**Table 6 Average Daily INRIX Travel Time**

Corridor	Pre-construction	Post-construction		Post-construction		Post-construction	
	May-24	Sep-24		Jan-25		Jun-25	
	Travel Time (Sec)	Travel Time (Sec)	% Difference from Pre-Construction	Travel Time (Sec)	% Difference from Pre-Construction	Travel Time (Sec)	% Difference from Pre-Construction
<b>Primary Corridor</b>							
EB Greenwood Avenue	85	97	14%	107	26%	111	30%
WB Greenwood Avenue	86	100	16%	99	16%	107	24%
<b>Parallel Corridors</b>							
EB Revere Avenue	96	97	2%	82	-15%	90	-6%
WB Revere Avenue	91	90	<-1%	92	1%	79	-13%
EB Olney Avenue	64	65	1%	63	-2%		
WB Olney Avenue	62	64	3%	60	-2%		
EB Franklin Avenue	119	124	4%	117	-2%	121	1%
WB Franklin Avenue	120	123	3%	121	1%	144	20%

Note: Travel times are not reported on Olney Avenue during the June 2025 data collection period due to a closure along the road in conjunction with the Olney Avenue Improvements Project

## Peak Hour Travel Time

As shown in Table 7, Kittelson also analyzed peak hour travel time as it reflects the highest travel demand and therefore the most congested condition. For this analysis, peak hour is identified as the 60-minute period with the highest pre-construction volumes, which is between 3:00 and 4:00 PM at both count locations.

Compared to the daily average travel time, peak hour travel time increases are more substantial along Greenwood Avenue:

- Along eastbound Greenwood Avenue, the average travel time increased from 93 seconds pre-construction to 112 seconds in September 2024, to 122 seconds in January 2025, **and 125 seconds in June 2025, exceeding pre-construction levels by 20 percent (19 seconds), 31 percent (29 seconds) and 35 percent (32 seconds)** respectively.
- Along westbound Greenwood Avenue, the average travel time increased from 93 seconds to 117 seconds in September 2024, reflecting a 26 percent (24 seconds) increase. In January 2025, the westbound travel time decreased slightly to 109 seconds, representing a 18 percent (16 seconds) increase from pre-construction levels. **In June 2025, the westbound travel time increased slightly to 113 seconds, representing a 21 percent (20 seconds) increase from pre-construction levels. Travel times are not reported on Olney Avenue during the June 2025 data collection period due to a closure along the road in conjunction with the Olney Avenue Improvements Project**

Travel times along the parallel corridors increased to a lesser extent compared to Greenwood Avenue or decreased.

- In September 2024, the maximum increase occurs at westbound Olney Avenue and westbound Franklin Avenue (eight percent [five seconds] and seven percent [ten seconds], respectively).
- In January 2025, eastbound Revere Avenue experienced a 17 percent decrease (18 seconds) in travel times. The decrease in travel times on eastbound Revere Avenue and eastbound/westbound Olney Avenue was likely impacted by the detour and closure on Portland Avenue.
- **In June 2025, westbound Revere Avenue experienced a 17 percent decrease (16 seconds) in travel times, and westbound Franklin Avenue experienced a 16 percent increase (20 seconds) in travel times.**
- Other than the corridors mentioned, the travel time changes of other parallel corridors are within five percent from pre-construction levels.

Table 7 Average Peak Hour INRIX Travel Time

Corridor	Pre-construction	Post-construction		Post-construction		Post-construction	
	May-24	Sep-24		Jan-25		Jun-25	
	Travel Time (Sec)	Travel Time (Sec)	% Difference from Pre-Construction	Travel Time (Sec)	% Difference from Pre-Construction	Travel Time (Sec)	% Difference from Pre-Construction
<b>Primary Corridor</b>							
EB Greenwood Avenue	93	112	20%	122	31%	125	35%
WB Greenwood Avenue	93	117	26%	109	18%	113	21%
<b>Parallel Corridors</b>							
EB Revere Avenue	102	100	-1%	84	-17%	98	-4%
WB Revere Avenue	95	96	1	98	4%	79	-17%
EB Olney Avenue	70	70	<1%	67	-5%		
WB Olney Avenue	63	68	8%	62	-1%		
EB Franklin Avenue	139	145	4%	134	-4%	139	0%
WB Franklin Avenue	127	137	7%	128	1%	147	16%

Note: Travel times are not reported on Olney Avenue during the June 2025 data collection period due to a closure along the road in conjunction with the Olney Avenue Improvements Project

## Google API Travel Time

### Daily Average Travel Time

As shown in Table 8, the Google API data presented a notably different picture of travel time trends before and after the Quick Build project. Along Greenwood Avenue, the data indicated slightly improved travel times in both directions, contrasting with the INRIX findings:

- The average eastbound travel times on Greenwood Avenue decreased from 132 seconds pre-construction to 127 seconds post-construction in both September 2024 and January 2025, representing a 4 percent drop (5 seconds). **In June 2025, travel time increased to 154 seconds, representing a 17 percent (22 second) increase from pre-construction travel times.**
- The average westbound travel times on Greenwood Avenue decreased from 132 seconds to 130 seconds in September 2024 and 126 seconds in January 2025, reflecting a 1 percent (2 seconds) and 5 percent (6 seconds) reduction, respectively. **In June 2025, travel times increased to 149 seconds, reflecting a 13 percent (17 second) increase in travel times.**

The parallel corridor analysis showed fluctuation in travel time on Olney Avenue in September 2024. Other than that, travel times generally remained similar or improved slightly in both post-construction periods:

- Travel times on both direction of Olney Avenue increased by more than 20 percent (up to 22 seconds) in September 2024. In January 2025, the travel times dropped to four percent below pre-construction levels. **Travel times are not reported on Olney Avenue during the June 2025 data collection period due to a closure along the road in conjunction with the Olney Avenue Improvements Project**
- Other than Olney Avenue, travel times on other parallel corridors stayed stable or decreased slightly in September 2024 and January 2025. **In June 2025, both Revere Avenue and Franklin Avenue experienced increased travel times of up to 16 percent and 9 percent, respectively.**

**Table 8. Average Daily Google API Travel Time**

Corridor	Pre-construction	Post-construction		Post-construction		Post-construction	
	May-24	Sep-24		Jan-25		Jun-25	
	Travel Time (Sec)	Travel Time (Sec)	% Difference from Pre-Construction	Travel Time (Sec)	% Difference from Pre-Construction	Travel Time (Sec)	% Difference from Pre-Construction
<b>Primary Corridor</b>							
EB Greenwood Avenue	132	127	-4%	127	-4%	154	17%
WB Greenwood Avenue	132	130	-1%	126	-5%	149	13%
<b>Parallel Corridors</b>							
EB Revere Avenue	121	119	-2%	123	1%	141	16%
WB Revere Avenue	108	108	0	108	0%	109	1%
EB Olney Avenue	94	114	21%	90	-4%		
WB Olney Avenue	91	113	25%	88	-4%		
EB Franklin Avenue	160	158	-1%	150	-6%	171	7%
WB Franklin Avenue	154	147	-4%	144	-6%	167	9%

Note: Travel times are not reported on Olney Avenue during the June 2025 data collection period due to a closure along the road in conjunction with the Olney Avenue Improvements Project

■ Peak Hour Travel Time

Table 9 shows the peak hour travel time results from Google API. Similar to INRIX peak hour analysis, travel times between 3:00 and 4:00 PM were used.

Along Greenwood Avenue, similar to the average daily travel times, peak hour travel times also decreased slightly:

- Eastbound peak hour travel times decreased from 155 seconds to 145 seconds post-construction in September 2024, representing a 6 percent decrease (10 seconds). By January 2025, the travel time increased slightly to 151 seconds, 3 percent (4 seconds) below pre-construction levels. **In June 2025, travel times were 194 seconds, representing an 8 percent (38 second) increase compared to pre-construction levels.**
- **Westbound peak hour travel times** remained the same (151 seconds) in September 2024 but decreased to 144 seconds in January 2025, showing a 5 percent (7 seconds) reduction.

Similar to the daily travel time trends, travel times along the parallel corridors decreased in general, except Olney Avenue, where travel times increased in September 2024:

- Travel times on both directions of Olney Avenue increased by about 20 percent (up to 22 seconds) in September 2024. In January 2025, the eastbound and westbound travel times dropped to three and four percent below pre-construction levels, respectively. **Travel times are not reported on Olney Avenue during the June 2025 data collection period due to a closure along the road in conjunction with the Olney Avenue Improvements Project**

- Other than Olney Avenue, travel times on other parallel corridors stayed stable or decreased slightly in September 2024 and January 2025. **In June 2025, both Revere Avenue and Franklin Avenue experienced increased travel times of up to 20 percent and 12 percent, respectively.**

Table 9 Average Peak Hour Google API Travel Time

Corridor	Pre-construction	Post-construction		Post-construction		Post-construction	
	May-24	Sep-24		Jan-25		Jun-25	
	Travel Time (Sec)	Travel Time (Sec)	% Difference from Pre-Construction	Travel Time (Sec)	% Difference from Pre-Construction	Travel Time (Sec)	% Difference from Pre-Construction
<b>Primary Corridor</b>							
EB Greenwood Avenue	155	145	-6%	151	-3%	194	25%
WB Greenwood Avenue	151	151	<1%	144	-5%	164	8%
<b>Parallel Corridors</b>							
EB Revere Avenue	137	128	-7%	130	-5%	164	20%
WB Revere Avenue	115	114	-1%	114	-1%	120	4%
EB Olney Avenue	99	116	18%	96	-3%		
WB Olney Avenue	96	118	23%	92	-4%		
EB Franklin Avenue	203	189	-7%	195	-4%	222	9%
WB Franklin Avenue	172	157	-9%	157	-9%	192	12%

Note: Travel times are not reported on Olney Avenue during the June 2025 data collection period due to a closure along the road in conjunction with the Olney Avenue Improvements Project

## BPD Incident Report Data

---

The City of Bend provided preliminary incident report data from the Bend Police Department pre- and post-construction. Pre-construction data is presented between August 17<sup>th</sup>, 2023 to August 1<sup>st</sup>, 2024 and post-construction data is provided from August 15<sup>th</sup>, 2024 to July 31<sup>st</sup>, 2025. Data provided in the report includes:

- Motor vehicle accident and hit and run calls for service
- DMV crash reports
- Traffic citations

The data is provided in Appendix N.

It's important to note that this data is preliminary and subject to change as it is further reviewed and refined.

As currently reported, the data indicates that in the year prior to construction, there were 17 reported crashes. 35% of these incidents took place at traffic signals (list which ones) along the corridor. In the year post construction, there were 32 crashes occurred whereas 50% of crashes occurred at the signalized intersections along the corridor. The pre-construction crashes included two bicycle crashes of which one was associated with a signalized intersection. Post-construction, there were two reported pedestrian-related crashes and two bicycle related crashes. Both of the pedestrian crashes and one of the bicycle crashes occurred at signalized intersections. Minor modifications to the traffic signals were included as part of the quick build project.

Traffic studies generally use the most recent five years of available, post-processed crash history within crash analyses. Annual data is typically released 1-2 years after the conclusion of a year (for example, 2023 data would become available typically in 2025). Based on this, the most recent available data is the 5-year period between 2019-2023, which would not include the effects of the Greenwood Quick-Build project.

The purpose of evaluating a 5-year period is to account for annual variations in crash trends that are typical. Evaluation of a 5-year period provides a more measured and reliable review of crash patterns. Evaluation of shorter periods, such as 1 year of data as is available for the Greenwood Quick Build project, risks over or under emphasizing how crash patterns may have changed. As such, broad conclusions should not be drawn from the data provided. Rather, the data should be reviewed with the understanding that more discernable trends will be more confidently established once additional years of data are made available.

## Summary of Key Observations

---

The purpose of this memorandum is to report the monitoring results following the Quick Build project on Greenwood Avenue. While these results provide insight into vehicle travel times and multimodal usage, it's important to note that numerous factors such as weather, adjacent construction closures/detours, events, and crashes can influence these metrics. Therefore, definitive conclusions on the project's positive or negative effects are premature and will require ongoing monitoring. This section provides general observations based on the data collected thus far.

### Traffic Count Data Analysis

The following are key observations based on the multimodal demand and speed data collection along Greenwood Avenue:

- After the project's implementation in September 2024, vehicle volumes decreased by 18 percent east of Hill Street and 20 percent west of Hill Street compared to pre-construction levels. In January 2025, volumes rebounded to four and five percent below pre-construction levels, respectively. **In June 2025, vehicle volumes remained slightly below pre-construction levels, at six percent east of Hill Street and nine percent west of Hill Street.**
- **In general, the post-construction 85th percentile speeds decreased by two to five mph at both count locations. In June 2025, speeds continued to stay below pre-construction levels, with the eastbound traffic maintaining slightly higher speeds than westbound traffic.**
- Pedestrian volumes declined at both count locations during the first two post-construction periods. The decrease ranged from 21 percent to 42 percent depending on count period and location. **In June 2025, pedestrian volumes increased substantially, rising to 81 percent above pre-construction levels east of Hill Street and nine percent above pre-construction levels west of Hill Street. Notably, growth was more pronounced on the south sidewalk, resulting in a more balanced distribution of pedestrian activity between the north and south sidewalks.**
- **Bicycle volumes increased at both locations (24 percent east and 64 percent west of Hill Street) in September 2024 but decreased in January 2024 by 20 and 35 percent, respectively. The decrease in ridership may have been impacted by colder temperatures and general reductions in users during the winter months. In June 2025, bicycle activity surged, with volumes increasing by 297 percent east of Hill Street and 260 percent west of Hill Street compared to pre-construction counts.**

### Travel Time Analysis

The following are key observations based on INRIX and Google API travel time data along Greenwood Avenue and parallel corridors:

- Travel time results varied between the two data sources: INRIX travel times were generally shorter than Google API travel times. This discrepancy might be due to several factors:
  - INRIX travel time data are based on pre-determined XD segments that may not precisely align with the origins and destinations specified in Google API queries.
  - It is unclear how the two platforms handle boundary intersections at the ends of the selected corridor (i.e., whether the delays at the first and the last intersections are included in travel time results).
- **INRIX average daily travel times along Greenwood Avenue showed increases during all three post-construction periods, ranging from 14 percent above pre-construction levels in September 2024 to 26 percent in January 2025, and reaching 30 percent above pre-construction levels in June 2025. In contrast, Google API travel times showed slight decreases of up to five percent in September 2024 and**

January 2025, followed by an increase of up to 17 percent in June 2025. This difference is likely because Google API uses historical speed data as part of its travel time estimates and might lag in reflecting the latest trends. In contrast, INRIX data are based on GPS-enabled devices and road sensors and were filtered to only include real-time data for this analysis. Given the methodology of the two data sources and the observed drop in 85th percentile speed on Greenwood Avenue, it is likely that the INRIX travel times better reflect the current conditions.

- INRIX travel time data indicated a higher increase in travel time in June 2025 than in January 2025 for both eastbound and westbound Greenwood Avenue.
- Travel times on parallel routes fluctuated across the three post-construction periods. In June 2025, decreased travel times on Revere Avenue, particularly westbound, suggest some traffic redistribution, while increased travel times on westbound Franklin Avenue by up to 20 percent indicate localized congestion patterns due to possible rerouting after the Olney Avenue closure.

## Data Collection Comparison

The summary table below provides a comparison of data collected during the post-construction periods with data collected pre-construction. Specific volumes, speeds, and travel times are detailed in the main report and the appendices.

Data Type	Post-Construction 1		Post-Construction 2		Post-Construction 3	
	Sep-24 Eastbound	Sep-24 Westbound	Jan-25 Eastbound	Jan-25 Westbound	June-25 Eastbound	June-25 Westbound
Vehicle Volume	-16%	-21%	-2%	-7%	-6%	-6%
Vehicle Speed	-2mph	-4mph	-1mph	-4mph	-3mph	-4mph
Pedestrian Volume <sup>1</sup>	-30%		-21%		+81%	
Bicycle Volume <sup>1</sup>	+24%		-20%		+297%	
Average Daily Travel Time	+14%	+16%	+26%	+16%	+30%	+24%
Peak Hour Travel Time	+20%	+26%	+31%	+18%	+35%	+21%

<sup>1</sup>Reflects volumes west of Hills St

---

## Next Steps

---

This memorandum's data will be reviewed by City Council in September 2025. Councilors will guide staff on next steps, which may include permanent infrastructure from the quick build design, removal of quick build features with a return to four lanes, or a mix of new and previous treatments.

## Appendix A Traffic Volume Pre-Construction

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

**QC JOB #:** 16414404

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	14 May 24	15 May 24							
12:00 AM		7	15			11			11	
12:15 AM		6	10			8			8	
12:30 AM		5	8			7			7	
12:45 AM		6	1			4			4	
01:00 AM		5	10			8			8	
01:15 AM		7	5			6			6	
01:30 AM		4	4			4			4	
01:45 AM		2	5			4			4	
02:00 AM		3	2			3			3	
02:15 AM		1	2			2			2	
02:30 AM		2	3			3			3	
02:45 AM		2	4			3			3	
03:00 AM		4	2			3			3	
03:15 AM		2	2			2			2	
03:30 AM		0	1			1			1	
03:45 AM		2	3			3			3	
04:00 AM		3	2			3			3	
04:15 AM		3	6			5			5	
04:30 AM		2	7			5			5	
04:45 AM		8	7			8			8	
05:00 AM		10	7			9			9	
05:15 AM		14	14			14			14	
05:30 AM		16	15			16			16	
05:45 AM		30	29			30			30	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

**QC JOB #:** 16414404

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	14 May 24	15 May 24							
06:00 AM		15	18			17			17	<div style="width: 10%;"></div>
06:15 AM		29	29			29			29	<div style="width: 15%;"></div>
06:30 AM		47	28			38			38	<div style="width: 10%;"></div>
06:45 AM		60	50			55			55	<div style="width: 12%;"></div>
07:00 AM		67	71			69			69	<div style="width: 15%;"></div>
07:15 AM		83	68			76			76	<div style="width: 13%;"></div>
07:30 AM		98	103			101			101	<div style="width: 16%;"></div>
07:45 AM		134	136			135			135	<div style="width: 20%;"></div>
08:00 AM		113	103			108			108	<div style="width: 15%;"></div>
08:15 AM		135	131			133			133	<div style="width: 20%;"></div>
08:30 AM		121	122			122			122	<div style="width: 15%;"></div>
08:45 AM		138	144			141			141	<div style="width: 20%;"></div>
09:00 AM		103	117			110			110	<div style="width: 15%;"></div>
09:15 AM		91	101			96			96	<div style="width: 10%;"></div>
09:30 AM		113	118			116			116	<div style="width: 15%;"></div>
09:45 AM		134	144			139			139	<div style="width: 20%;"></div>
10:00 AM		128	134			131			131	<div style="width: 15%;"></div>
10:15 AM		145	121			133			133	<div style="width: 10%;"></div>
10:30 AM		114	149			132			132	<div style="width: 15%;"></div>
10:45 AM		110	133			122			122	<div style="width: 10%;"></div>
11:00 AM		128	185			157			157	<div style="width: 30%;"></div>
11:15 AM		135	170			153			153	<div style="width: 25%;"></div>
11:30 AM		144	140			142			142	<div style="width: 15%;"></div>
11:45 AM		173	145			159			159	<div style="width: 25%;"></div>
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

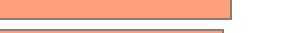
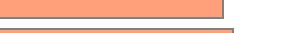
**QC JOB #:** 16414404

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	15 May 24								
12:00 PM		175	173			174			174	
12:15 PM		174	164			169			169	
12:30 PM		163	188			176			176	
12:45 PM		178	179			179			179	
01:00 PM		158	186			172			172	
01:15 PM		157	200			179			179	
01:30 PM		148	136			142			142	
01:45 PM		157	177			167			167	
02:00 PM		168	199			184			184	
02:15 PM		169	163			166			166	
02:30 PM		176	163			170			170	
02:45 PM		185	185			185			185	
03:00 PM		182	178			180			180	
03:15 PM		212	193			203			203	
03:30 PM		192	205			199			199	
03:45 PM		162	195			179			179	
04:00 PM		189	193			191			191	
04:15 PM		199	171			185			185	
04:30 PM		176	192			184			184	
04:45 PM		173	184			179			179	
05:00 PM		188	182			185			185	
05:15 PM		208	188			198			198	
05:30 PM		165	196			181			181	
05:45 PM		138	127			133			133	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

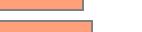
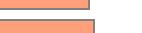
**QC JOB #:** 16414404

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon 14 May 24	Tue 15 May 24	Wed 15 May 24	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
06:00 PM		126	129			128			128	
06:15 PM		101	127			114			114	
06:30 PM		80	106			93			93	
06:45 PM		80	110			95			95	
07:00 PM		91	118			105			105	
07:15 PM		63	88			76			76	
07:30 PM		94	72			83			83	
07:45 PM		80	67			74			74	
08:00 PM		66	93			80			80	
08:15 PM		87	80			84			84	
08:30 PM		66	87			77			77	
08:45 PM		77	66			72			72	
09:00 PM		67	76			72			72	
09:15 PM		54	63			59			59	
09:30 PM		42	51			47			47	
09:45 PM		30	41			36			36	
10:00 PM		45	27			36			36	
10:15 PM		53	28			41			41	
10:30 PM		39	28			34			34	
10:45 PM		25	19			22			22	
11:00 PM		17	13			15			15	
11:15 PM		20	14			17			17	
11:30 PM		21	9			15			15	
11:45 PM		16	14			15			15	
<b>Day Total</b>	8334	8667				8526			8526	
<b>% Weekday Average</b>	97.7%	101.7%								
<b>% Week Average</b>	97.7%	101.7%				100%				
<b>AM Peak 15-min Vol</b>	11:45 AM 173	11:00 AM 185				11:45 AM 159			11:45 AM 159	
<b>PM Peak 15-min Vol</b>	3:15 PM 212	3:30 PM 205				3:15 PM 203			3:15 PM 203	
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

**QC JOB #:** 16414404

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	14 May 24	15 May 24							
12:00 AM		4	6			5			5	
12:15 AM		4	15			10			10	
12:30 AM		3	6			5			5	
12:45 AM		9	6			8			8	
01:00 AM		1	2			2			2	
01:15 AM		3	3			3			3	
01:30 AM		4	1			3			3	
01:45 AM		1	7			4			4	
02:00 AM		0	1			1			1	
02:15 AM		1	2			2			2	
02:30 AM		4	5			5			5	
02:45 AM		2	0			1			1	
03:00 AM		2	1			2			2	
03:15 AM		0	2			1			1	
03:30 AM		0	1			1			1	
03:45 AM		1	1			1			1	
04:00 AM		2	2			2			2	
04:15 AM		1	4			3			3	
04:30 AM		2	5			4			4	
04:45 AM		8	4			6			6	
05:00 AM		9	4			7			7	
05:15 AM		13	11			12			12	
05:30 AM		18	10			14			14	
05:45 AM		25	15			20			20	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

**QC JOB #:** 16414404

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	14 May 24	15 May 24							
06:00 AM		26	17			22			22	<div style="width: 10%;">10%</div>
06:15 AM		37	36			37			37	<div style="width: 15%;">15%</div>
06:30 AM		52	44			48			48	<div style="width: 18%;">18%</div>
06:45 AM		60	74			67			67	<div style="width: 22%;">22%</div>
07:00 AM		65	66			66			66	<div style="width: 20%;">20%</div>
07:15 AM		109	78			94			94	<div style="width: 25%;">25%</div>
07:30 AM		146	116			131			131	<div style="width: 30%;">30%</div>
07:45 AM		187	149			168			168	<div style="width: 35%;">35%</div>
08:00 AM		140	124			132			132	<div style="width: 32%;">32%</div>
08:15 AM		138	167			153			153	<div style="width: 38%;">38%</div>
08:30 AM		129	121			125			125	<div style="width: 34%;">34%</div>
08:45 AM		146	152			149			149	<div style="width: 36%;">36%</div>
09:00 AM		127	136			132			132	<div style="width: 33%;">33%</div>
09:15 AM		134	131			133			133	<div style="width: 34%;">34%</div>
09:30 AM		109	119			114			114	<div style="width: 28%;">28%</div>
09:45 AM		120	161			141			141	<div style="width: 40%;">40%</div>
10:00 AM		108	107			108			108	<div style="width: 25%;">25%</div>
10:15 AM		105	120			113			113	<div style="width: 31%;">31%</div>
10:30 AM		106	119			113			113	<div style="width: 31%;">31%</div>
10:45 AM		126	113			120			120	<div style="width: 33%;">33%</div>
11:00 AM		111	153			132			132	<div style="width: 38%;">38%</div>
11:15 AM		141	137			139			139	<div style="width: 35%;">35%</div>
11:30 AM		111	137			124			124	<div style="width: 32%;">32%</div>
11:45 AM		147	130			139			139	<div style="width: 36%;">36%</div>
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

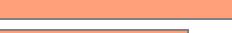
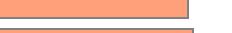
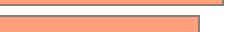
**QC JOB #:** 16414404

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon 14 May 24	Tue 15 May 24	Wed 15 May 24	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
12:00 PM		147	159			153			153	
12:15 PM		119	120			120			120	
12:30 PM		127	116			122			122	
12:45 PM		134	145			140			140	
01:00 PM		136	121			129			129	
01:15 PM		138	123			131			131	
01:30 PM		128	123			126			126	
01:45 PM		117	146			132			132	
02:00 PM		124	135			130			130	
02:15 PM		116	122			119			119	
02:30 PM		105	130			118			118	
02:45 PM		141	118			130			130	
03:00 PM		134	137			136			136	
03:15 PM		144	111			128			128	
03:30 PM		134	134			134			134	
03:45 PM		135	145			140			140	
04:00 PM		138	125			132			132	
04:15 PM		137	129			133			133	
04:30 PM		128	135			132			132	
04:45 PM		136	124			130			130	
05:00 PM		139	151			145			145	
05:15 PM		140	140			140			140	
05:30 PM		132	120			126			126	
05:45 PM		113	119			116			116	
Day Total										
% Weekday Average										
% Week Average										
AM Peak 15-min Vol										
PM Peak 15-min Vol										
Comments:										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

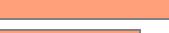
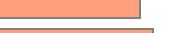
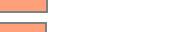
**QC JOB #:** 16414404

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	14 May 24	15 May 24							
06:00 PM		102	128			115			115	
06:15 PM		97	86			92			92	
06:30 PM		99	99			99			99	
06:45 PM		79	93			86			86	
07:00 PM		71	60			66			66	
07:15 PM		60	60			60			60	
07:30 PM		61	66			64			64	
07:45 PM		56	64			60			60	
08:00 PM		50	74			62			62	
08:15 PM		54	56			55			55	
08:30 PM		43	35			39			39	
08:45 PM		40	35			38			38	
09:00 PM		33	77			55			55	
09:15 PM		26	29			28			28	
09:30 PM		35	32			34			34	
09:45 PM		17	21			19			19	
10:00 PM		22	21			22			22	
10:15 PM		17	12			15			15	
10:30 PM		16	17			17			17	
10:45 PM		12	16			14			14	
11:00 PM		16	11			14			14	
11:15 PM		6	6			6			6	
11:30 PM		11	18			15			15	
11:45 PM		4	9			7			7	
<b>Day Total</b>	6966	7074				7046			7046	
<b>% Weekday Average</b>	98.9%	100.4%								
<b>% Week Average</b>	98.9%	100.4%				100%				
<b>AM Peak 15-min Vol</b>	7:45 AM	8:15 AM				7:45 AM			7:45 AM	
	187	167				168			168	
<b>PM Peak 15-min Vol</b>	12:00 PM	12:00 PM				12:00 PM			12:00 PM	
	147	159				153			153	
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

**QC JOB #:** 16414405

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	14 May 24	15 May 24							
12:00 AM		9	12			11			11	
12:15 AM		6	9			8			8	
12:30 AM		8	12			10			10	
12:45 AM		8	4			6			6	
01:00 AM		8	14			11			11	
01:15 AM		6	5			6			6	
01:30 AM		5	4			5			5	
01:45 AM		3	7			5			5	
02:00 AM		3	2			3			3	
02:15 AM		2	3			3			3	
02:30 AM		2	5			4			4	
02:45 AM		3	4			4			4	
03:00 AM		6	2			4			4	
03:15 AM		4	2			3			3	
03:30 AM		3	3			3			3	
03:45 AM		5	5			5			5	
04:00 AM		3	4			4			4	
04:15 AM		5	7			6			6	
04:30 AM		4	13			9			9	
04:45 AM		10	11			11			11	
05:00 AM		13	12			13			13	
05:15 AM		17	18			18			18	
05:30 AM		23	26			25			25	
05:45 AM		41	39			40			40	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

**QC JOB #:** 16414405

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	14 May 24	15 May 24							
06:00 AM		26	28			27			27	
06:15 AM		45	52			49			49	
06:30 AM		63	44			54			54	
06:45 AM		92	71			82			82	
07:00 AM		91	95			93			93	
07:15 AM		101	88			95			95	
07:30 AM		121	118			120			120	
07:45 AM		150	160			155			155	
08:00 AM		137	122			130			130	
08:15 AM		167	140			154			154	
08:30 AM		148	137			143			143	
08:45 AM		173	167			170			170	
09:00 AM		123	133			128			128	
09:15 AM		117	130			124			124	
09:30 AM		144	143			144			144	
09:45 AM		160	159			160			160	
10:00 AM		144	156			150			150	
10:15 AM		163	154			159			159	
10:30 AM		136	154			145			145	
10:45 AM		125	165			145			145	
11:00 AM		147	198			173			173	
11:15 AM		161	200			181			181	
11:30 AM		171	178			175			175	
11:45 AM		207	184			196			196	
Day Total										
% Weekday Average										
% Week Average										
AM Peak 15-min Vol										
PM Peak 15-min Vol										
Comments:										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

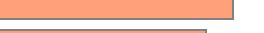
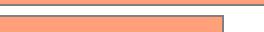
**QC JOB #:** 16414405

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon 14 May 24	Tue 15 May 24	Wed 15 May 24	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
12:00 PM		225	211			218			218	
12:15 PM		207	182			195			195	
12:30 PM		194	206			200			200	
12:45 PM		196	201			199			199	
01:00 PM		173	219			196			196	
01:15 PM		187	214			201			201	
01:30 PM		186	185			186			186	
01:45 PM		174	195			185			185	
02:00 PM		191	231			211			211	
02:15 PM		195	194			195			195	
02:30 PM		196	187			192			192	
02:45 PM		220	229			225			225	
03:00 PM		192	215			204			204	
03:15 PM		228	217			223			223	
03:30 PM		213	245			229			229	
03:45 PM		199	227			213			213	
04:00 PM		245	239			242			242	
04:15 PM		235	223			229			229	
04:30 PM		228	221			225			225	
04:45 PM		199	208			204			204	
05:00 PM		230	225			228			228	
05:15 PM		257	247			252			252	
05:30 PM		198	222			210			210	
05:45 PM		162	140			151			151	
Day Total										
% Weekday Average										
% Week Average										
AM Peak 15-min Vol										
PM Peak 15-min Vol										
Comments:										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

**QC JOB #:** 16414405

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	14 May 24	15 May 24							
06:00 PM		140	149			145			145	
06:15 PM		113	147			130			130	
06:30 PM		97	135			116			116	
06:45 PM		103	123			113			113	
07:00 PM		107	135			121			121	
07:15 PM		80	100			90			90	
07:30 PM		107	88			98			98	
07:45 PM		97	84			91			91	
08:00 PM		76	100			88			88	
08:15 PM		93	81			87			87	
08:30 PM		69	83			76			76	
08:45 PM		78	91			85			85	
09:00 PM		72	90			81			81	
09:15 PM		66	73			70			70	
09:30 PM		47	56			52			52	
09:45 PM		33	44			39			39	
10:00 PM		44	30			37			37	
10:15 PM		55	32			44			44	
10:30 PM		33	33			33			33	
10:45 PM		29	23			26			26	
11:00 PM		19	19			19			19	
11:15 PM		24	17			21			21	
11:30 PM		22	12			17			17	
11:45 PM		20	16			18			18	
<b>Day Total</b>	9863	10243				10079			10079	
<b>% Weekday Average</b>	97.9%	101.6%								
<b>% Week Average</b>	97.9%	101.6%				100%				
<b>AM Peak 15-min Vol</b>	11:45 AM	11:15 AM				11:45 AM			11:45 AM	
	207	200				196			196	
<b>PM Peak 15-min Vol</b>	5:15 PM	5:15 PM				5:15 PM			5:15 PM	
	257	247				252			252	
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

**QC JOB #:** 16414405

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	14 May 24	15 May 24							
12:00 AM		4	6			5			5	
12:15 AM		2	16			9			9	
12:30 AM		4	9			7			7	
12:45 AM		10	4			7			7	
01:00 AM		2	2			2			2	
01:15 AM		1	1			1			1	
01:30 AM		5	2			4			4	
01:45 AM		1	5			3			3	
02:00 AM		0	2			1			1	
02:15 AM		2	3			3			3	
02:30 AM		4	5			5			5	
02:45 AM		2	1			2			2	
03:00 AM		3	1			2			2	
03:15 AM		0	1			1			1	
03:30 AM		0	2			1			1	
03:45 AM		2	1			2			2	
04:00 AM		2	3			3			3	
04:15 AM		1	3			2			2	
04:30 AM		3	6			5			5	
04:45 AM		6	6			6			6	
05:00 AM		10	5			8			8	
05:15 AM		17	14			16			16	
05:30 AM		21	12			17			17	
05:45 AM		33	17			25			25	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

**QC JOB #:** 16414405

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	14 May 24	15 May 24							
06:00 AM		31	23			27			27	
06:15 AM		43	45			44			44	
06:30 AM		61	52			57			57	
06:45 AM		69	89			79			79	
07:00 AM		77	80			79			79	
07:15 AM		125	90			108			108	
07:30 AM		178	150			164			164	
07:45 AM		199	178			189			189	
08:00 AM		164	147			156			156	
08:15 AM		155	172			164			164	
08:30 AM		144	137			141			141	
08:45 AM		165	151			158			158	
09:00 AM		144	163			154			154	
09:15 AM		136	146			141			141	
09:30 AM		128	121			125			125	
09:45 AM		124	154			139			139	
10:00 AM		129	125			127			127	
10:15 AM		118	139			129			129	
10:30 AM		122	130			126			126	
10:45 AM		142	123			133			133	
11:00 AM		128	174			151			151	
11:15 AM		133	149			141			141	
11:30 AM		135	157			146			146	
11:45 AM		141	147			144			144	
Day Total										
% Weekday Average										
% Week Average										
AM Peak 15-min Vol										
PM Peak 15-min Vol										
Comments:										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

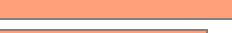
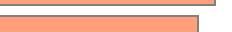
**QC JOB #:** 16414405

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon 14 May 24	Tue 15 May 24	Wed 15 May 24	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
12:00 PM		171	165			168			168	
12:15 PM		138	156			147			147	
12:30 PM		131	153			142			142	
12:45 PM		169	169			169			169	
01:00 PM		139	149			144			144	
01:15 PM		148	145			147			147	
01:30 PM		138	144			141			141	
01:45 PM		140	167			154			154	
02:00 PM		139	142			141			141	
02:15 PM		114	131			123			123	
02:30 PM		122	150			136			136	
02:45 PM		153	117			135			135	
03:00 PM		143	157			150			150	
03:15 PM		139	131			135			135	
03:30 PM		145	141			143			143	
03:45 PM		145	157			151			151	
04:00 PM		154	140			147			147	
04:15 PM		150	143			147			147	
04:30 PM		145	149			147			147	
04:45 PM		143	139			141			141	
05:00 PM		148	166			157			157	
05:15 PM		155	149			152			152	
05:30 PM		143	138			141			141	
05:45 PM		122	125			124			124	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

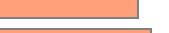
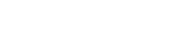
**QC JOB #:** 16414405

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	14 May 24	15 May 24							
06:00 PM		124	136			130			130	
06:15 PM		104	102			103			103	
06:30 PM		110	111			111			111	
06:45 PM		88	109			99			99	
07:00 PM		81	75			78			78	
07:15 PM		71	72			72			72	
07:30 PM		65	78			72			72	
07:45 PM		64	64			64			64	
08:00 PM		56	80			68			68	
08:15 PM		54	51			53			53	
08:30 PM		51	39			45			45	
08:45 PM		44	41			43			43	
09:00 PM		42	67			55			55	
09:15 PM		35	36			36			36	
09:30 PM		36	29			33			33	
09:45 PM		17	24			21			21	
10:00 PM		28	28			28			28	
10:15 PM		20	18			19			19	
10:30 PM		18	15			17			17	
10:45 PM		15	11			13			13	
11:00 PM		15	14			15			15	
11:15 PM		6	8			7			7	
11:30 PM		10	14			12			12	
11:45 PM		6	7			7			7	
<b>Day Total</b>	7720	7921				7842			7842	
<b>% Weekday Average</b>	98.4%	101%								
<b>% Week Average</b>	98.4%	101%				100%				
<b>AM Peak 15-min Vol</b>	7:45 AM	7:45 AM				7:45 AM			7:45 AM	
	199	178				189			189	
<b>PM Peak 15-min Vol</b>	12:00 PM	12:45 PM				12:45 PM			12:45 PM	
	171	169				169			169	
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

## Appendix B Traffic Volume Post-Construction (September 2024)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

**QC JOB #:** 16734701

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** Sep 24 2024 - Sep 25 2024

Start Time	Mon 24 Sep 24	Tue 24 Sep 24	Wed 25 Sep 24	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
12:00 AM		7	5			6			6	
12:15 AM		5	7			6			6	
12:30 AM		5	6			6			6	
12:45 AM		5	3			4			4	
01:00 AM		4	6			5			5	
01:15 AM		3	2			3			3	
01:30 AM		0	7			4			4	
01:45 AM		0	3			2			2	
02:00 AM		3	3			3			3	
02:15 AM		1	1			1			1	
02:30 AM		3	1			2			2	
02:45 AM		0	4			2			2	
03:00 AM		1	1			1			1	
03:15 AM		0	1			1			1	
03:30 AM		3	4			4			4	
03:45 AM		3	4			4			4	
04:00 AM		3	5			4			4	
04:15 AM		6	3			5			5	
04:30 AM		2	4			3			3	
04:45 AM		9	13			11			11	
05:00 AM		4	4			4			4	
05:15 AM		16	17			17			17	
05:30 AM		23	22			23			23	
05:45 AM		27	30			29			29	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 10/1/2024 10:27 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

**QC JOB #:** 16734701

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** Sep 24 2024 - Sep 25 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	24 Sep 24	25 Sep 24								
06:00 AM		21	20			21			21	
06:15 AM		29	37			33			33	
06:30 AM		49	34			42			42	
06:45 AM		63	55			59			59	
07:00 AM		58	65			62			62	
07:15 AM		70	71			71			71	
07:30 AM		101	85			93			93	
07:45 AM		153	130			142			142	
08:00 AM		104	105			105			105	
08:15 AM		115	117			116			116	
08:30 AM		117	117			117			117	
08:45 AM		138	124			131			131	
09:00 AM		105	103			104			104	
09:15 AM		114	103			109			109	
09:30 AM		110	104			107			107	
09:45 AM		122	134			128			128	
10:00 AM		125	110			118			118	
10:15 AM		129	129			129			129	
10:30 AM		129	127			128			128	
10:45 AM		138	105			122			122	
11:00 AM		129	130			130			130	
11:15 AM		134	120			127			127	
11:30 AM		128	111			120			120	
11:45 AM		150	70			110			110	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 10/1/2024 10:27 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

**QC JOB #:** 16734701

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** Sep 24 2024 - Sep 25 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	24 Sep 24	25 Sep 24								
12:00 PM		146	160			153			153	
12:15 PM		129	122			126			126	
12:30 PM		126	118			122			122	
12:45 PM		123	98			111			111	
01:00 PM		141	155			148			148	
01:15 PM		139	65			102			102	
01:30 PM		128	138			133			133	
01:45 PM		125	122			124			124	
02:00 PM		148	132			140			140	
02:15 PM		163	139			151			151	
02:30 PM		66	146			106			106	
02:45 PM		111	143			127			127	
03:00 PM		164	115			140			140	
03:15 PM		133	183			158			158	
03:30 PM		161	146			154			154	
03:45 PM		101	73			87			87	
04:00 PM		153	70			112			112	
04:15 PM		152	128			140			140	
04:30 PM		141	147			144			144	
04:45 PM		127	158			143			143	
05:00 PM		141	93			117			117	
05:15 PM		96	140			118			118	
05:30 PM		123	126			125			125	
05:45 PM		127	102			115			115	
<b>Day Total</b>										
% Weekday Average										
% Week Average										
AM Peak 15-min Vol										
PM Peak 15-min Vol										
<b>Comments:</b>										

Report generated on 10/1/2024 10:27 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

**QC JOB #:** 16734701

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** Sep 24 2024 - Sep 25 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	24 Sep 24	25 Sep 24								
06:00 PM		123	138			131			131	
06:15 PM		117	127			122			122	
06:30 PM		95	115			105			105	
06:45 PM		101	107			104			104	
07:00 PM		89	84			87			87	
07:15 PM		101	72			87			87	
07:30 PM		90	82			86			86	
07:45 PM		68	89			79			79	
08:00 PM		71	77			74			74	
08:15 PM		85	65			75			75	
08:30 PM		68	74			71			71	
08:45 PM		54	47			51			51	
09:00 PM		47	47			47			47	
09:15 PM		32	45			39			39	
09:30 PM		51	37			44			44	
09:45 PM		66	38			52			52	
10:00 PM		39	37			38			38	
10:15 PM		33	28			31			31	
10:30 PM		22	31			27			27	
10:45 PM		23	15			19			19	
11:00 PM		16	23			20			20	
11:15 PM		18	14			16			16	
11:30 PM		20	9			15			15	
11:45 PM		14	11			13			13	
<b>Day Total</b>	7271	6893				7103			7103	
<b>% Weekday Average</b>	102.4%	97%								
<b>% Week Average</b>	102.4%	97%				100%				
<b>AM Peak 15-min Vol</b>	7:45 AM	9:45 AM				7:45 AM			7:45 AM	
	153	134				142			142	
<b>PM Peak 15-min Vol</b>	3:00 PM	3:15 PM				3:15 PM			3:15 PM	
	164	183				158			158	
<b>Comments:</b>										

Report generated on 10/1/2024 10:27 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

**QC JOB #:** 16734701

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** Sep 24 2024 - Sep 25 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	24 Sep 24	24 Sep 24	25 Sep 24							
12:00 AM		4	6			5			5	
12:15 AM		1	6			4			4	
12:30 AM		1	7			4			4	
12:45 AM		3	2			3			3	
01:00 AM		3	3			3			3	
01:15 AM		4	2			3			3	
01:30 AM		1	2			2			2	
01:45 AM		2	2			2			2	
02:00 AM		0	2			1			1	
02:15 AM		3	4			4			4	
02:30 AM		2	1			2			2	
02:45 AM		1	0			1			1	
03:00 AM		3	3			3			3	
03:15 AM		0	3			2			2	
03:30 AM		4	0			2			2	
03:45 AM		2	1			2			2	
04:00 AM		2	3			3			3	
04:15 AM		2	2			2			2	
04:30 AM		1	7			4			4	
04:45 AM		5	5			5			5	
05:00 AM		5	6			6			6	
05:15 AM		13	10			12			12	
05:30 AM		16	9			13			13	
05:45 AM		17	24			21			21	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 10/1/2024 10:27 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

**QC JOB #:** 16734701

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** Sep 24 2024 - Sep 25 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	24 Sep 24	24 Sep 24	25 Sep 24							
06:00 AM		28	24			26			26	<div style="width: 26%;"></div>
06:15 AM		28	20			24			24	<div style="width: 24%;"></div>
06:30 AM		40	38			39			39	<div style="width: 39%;"></div>
06:45 AM		67	58			63			63	<div style="width: 63%;"></div>
07:00 AM		53	57			55			55	<div style="width: 55%;"></div>
07:15 AM		81	79			80			80	<div style="width: 80%;"></div>
07:30 AM		88	121			105			105	<div style="width: 105%;"></div>
07:45 AM		117	93			105			105	<div style="width: 105%;"></div>
08:00 AM		118	116			117			117	<div style="width: 117%;"></div>
08:15 AM		94	113			104			104	<div style="width: 104%;"></div>
08:30 AM		103	85			94			94	<div style="width: 94%;"></div>
08:45 AM		106	111			109			109	<div style="width: 109%;"></div>
09:00 AM		90	91			91			91	<div style="width: 91%;"></div>
09:15 AM		93	94			94			94	<div style="width: 94%;"></div>
09:30 AM		105	109			107			107	<div style="width: 107%;"></div>
09:45 AM		80	122			101			101	<div style="width: 101%;"></div>
10:00 AM		103	95			99			99	<div style="width: 99%;"></div>
10:15 AM		102	71			87			87	<div style="width: 87%;"></div>
10:30 AM		92	80			86			86	<div style="width: 86%;"></div>
10:45 AM		89	106			98			98	<div style="width: 98%;"></div>
11:00 AM		85	90			88			88	<div style="width: 88%;"></div>
11:15 AM		73	87			80			80	<div style="width: 80%;"></div>
11:30 AM		97	91			94			94	<div style="width: 94%;"></div>
11:45 AM		98	79			89			89	<div style="width: 89%;"></div>
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 10/1/2024 10:27 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

**QC JOB #:** 16734701

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** Sep 24 2024 - Sep 25 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	24 Sep 24	25 Sep 24								
12:00 PM		100	108			104			104	
12:15 PM		91	105			98			98	
12:30 PM		87	86			87			87	
12:45 PM		81	88			85			85	
01:00 PM		123	88			106			106	
01:15 PM		78	61			70			70	
01:30 PM		109	92			101			101	
01:45 PM		90	89			90			90	
02:00 PM		88	86			87			87	
02:15 PM		101	92			97			97	
02:30 PM		69	121			95			95	
02:45 PM		89	113			101			101	
03:00 PM		99	96			98			98	
03:15 PM		106	131			119			119	
03:30 PM		88	90			89			89	
03:45 PM		95	69			82			82	
04:00 PM		114	64			89			89	
04:15 PM		97	83			90			90	
04:30 PM		100	91			96			96	
04:45 PM		109	97			103			103	
05:00 PM		122	95			109			109	
05:15 PM		91	96			94			94	
05:30 PM		90	88			89			89	
05:45 PM		80	94			87			87	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 10/1/2024 10:27 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

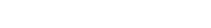
**QC JOB #:** 16734701

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** Sep 24 2024 - Sep 25 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	24 Sep 24	25 Sep 24								
06:00 PM		92	100			96			96	
06:15 PM		94	72			83			83	
06:30 PM		70	66			68			68	
06:45 PM		71	66			69			69	
07:00 PM		76	64			70			70	
07:15 PM		62	74			68			68	
07:30 PM		60	51			56			56	
07:45 PM		48	57			53			53	
08:00 PM		44	48			46			46	
08:15 PM		45	30			38			38	
08:30 PM		30	32			31			31	
08:45 PM		27	35			31			31	
09:00 PM		36	45			41			41	
09:15 PM		26	22			24			24	
09:30 PM		30	16			23			23	
09:45 PM		14	24			19			19	
10:00 PM		19	26			23			23	
10:15 PM		10	12			11			11	
10:30 PM		11	5			8			8	
10:45 PM		3	10			7			7	
11:00 PM		9	11			10			10	
11:15 PM		14	9			12			12	
11:30 PM		8	7			8			8	
11:45 PM		7	8			8			8	
<b>Day Total</b>	5328	5253				5313			5313	
<b>% Weekday Average</b>	100.3%	98.9%								
<b>% Week Average</b>	100.3%	98.9%				100%				
<b>AM Peak 15-min Vol</b>	8:00 AM 118	9:45 AM 122				8:00 AM 117			8:00 AM 117	
<b>PM Peak 15-min Vol</b>	1:00 PM 123	3:15 PM 131				3:15 PM 119			3:15 PM 119	
<b>Comments:</b>										

Report generated on 10/1/2024 10:27 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

**QC JOB #:** 16734702

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** Sep 24 2024 - Sep 25 2024

Start Time	Mon 24 Sep 24	Tue 24 Sep 24	Wed 25 Sep 24	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
12:00 AM		7	6			7			7	
12:15 AM		5	7			6			6	
12:30 AM		4	9			7			7	
12:45 AM		8	4			6			6	
01:00 AM		8	7			8			8	
01:15 AM		5	3			4			4	
01:30 AM		1	6			4			4	
01:45 AM		1	6			4			4	
02:00 AM		3	2			3			3	
02:15 AM		1	1			1			1	
02:30 AM		2	1			2			2	
02:45 AM		0	4			2			2	
03:00 AM		0	1			1			1	
03:15 AM		4	1			3			3	
03:30 AM		5	9			7			7	
03:45 AM		4	9			7			7	
04:00 AM		4	6			5			5	
04:15 AM		9	4			7			7	
04:30 AM		4	6			5			5	
04:45 AM		12	17			15			15	
05:00 AM		7	7			7			7	
05:15 AM		13	20			17			17	
05:30 AM		35	29			32			32	
05:45 AM		37	46			42			42	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 10/1/2024 10:27 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

**QC JOB #:** 16734702

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** Sep 24 2024 - Sep 25 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	24 Sep 24	25 Sep 24								
06:00 AM		30	27			29			29	
06:15 AM		49	55			52			52	
06:30 AM		58	62			60			60	
06:45 AM		96	86			91			91	
07:00 AM		71	77			74			74	
07:15 AM		78	76			77			77	
07:30 AM		123	119			121			121	
07:45 AM		146	148			147			147	
08:00 AM		128	135			132			132	
08:15 AM		124	135			130			130	
08:30 AM		138	150			144			144	
08:45 AM		161	138			150			150	
09:00 AM		145	123			134			134	
09:15 AM		135	124			130			130	
09:30 AM		128	108			118			118	
09:45 AM		124	126			125			125	
10:00 AM		160	140			150			150	
10:15 AM		164	165			165			165	
10:30 AM		148	147			148			148	
10:45 AM		160	144			152			152	
11:00 AM		153	156			155			155	
11:15 AM		166	142			154			154	
11:30 AM		160	140			150			150	
11:45 AM		185	44			115			115	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 10/1/2024 10:27 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

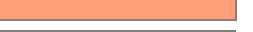
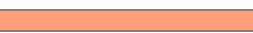
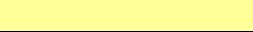
**QC JOB #:** 16734702

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** Sep 24 2024 - Sep 25 2024

Start Time	Mon 24 Sep 24	Tue 25 Sep 24	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
12:00 PM		199	156			178			178	
12:15 PM		120	158			139			139	
12:30 PM		170	94			132			132	
12:45 PM		138	143			141			141	
01:00 PM		148	172			160			160	
01:15 PM		179	134			157			157	
01:30 PM		135	149			142			142	
01:45 PM		168	145			157			157	
02:00 PM		156	183			170			170	
02:15 PM		185	190			188			188	
02:30 PM		177	161			169			169	
02:45 PM		160	175			168			168	
03:00 PM		188	161			175			175	
03:15 PM		173	164			169			169	
03:30 PM		195	165			180			180	
03:45 PM		180	89			135			135	
04:00 PM		174	99			137			137	
04:15 PM		186	153			170			170	
04:30 PM		172	161			167			167	
04:45 PM		184	172			178			178	
05:00 PM		175	134			155			155	
05:15 PM		130	97			114			114	
05:30 PM		168	156			162			162	
05:45 PM		183	156			170			170	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 10/1/2024 10:27 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

**QC JOB #:** 16734702

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** Sep 24 2024 - Sep 25 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	24 Sep 24	24 Sep 24	25 Sep 24							
06:00 PM		134	158			146			146	<div style="width: 100%; background-color: #ff9966; height: 10px;"></div>
06:15 PM		140	150			145			145	<div style="width: 95%; background-color: #ff9966; height: 10px;"></div>
06:30 PM		113	151			132			132	<div style="width: 85%; background-color: #ff9966; height: 10px;"></div>
06:45 PM		125	116			121			121	<div style="width: 75%; background-color: #ff9966; height: 10px;"></div>
07:00 PM		91	90			91			91	<div style="width: 65%; background-color: #ff9966; height: 10px;"></div>
07:15 PM		107	81			94			94	<div style="width: 55%; background-color: #ff9966; height: 10px;"></div>
07:30 PM		98	89			94			94	<div style="width: 45%; background-color: #ff9966; height: 10px;"></div>
07:45 PM		77	90			84			84	<div style="width: 35%; background-color: #ff9966; height: 10px;"></div>
08:00 PM		77	82			80			80	<div style="width: 25%; background-color: #ff9966; height: 10px;"></div>
08:15 PM		88	67			78			78	<div style="width: 15%; background-color: #ff9966; height: 10px;"></div>
08:30 PM		69	83			76			76	<div style="width: 5%; background-color: #ff9966; height: 10px;"></div>
08:45 PM		42	50			46			46	<div style="width: 0%; background-color: #ff9966; height: 10px;"></div>
09:00 PM		54	57			56			56	<div style="width: 0%; background-color: #ff9966; height: 10px;"></div>
09:15 PM		34	50			42			42	<div style="width: 0%; background-color: #ff9966; height: 10px;"></div>
09:30 PM		55	39			47			47	<div style="width: 0%; background-color: #ff9966; height: 10px;"></div>
09:45 PM		56	43			50			50	<div style="width: 0%; background-color: #ff9966; height: 10px;"></div>
10:00 PM		40	39			40			40	<div style="width: 0%; background-color: #ff9966; height: 10px;"></div>
10:15 PM		26	38			32			32	<div style="width: 0%; background-color: #ff9966; height: 10px;"></div>
10:30 PM		24	31			28			28	<div style="width: 0%; background-color: #ff9966; height: 10px;"></div>
10:45 PM		22	14			18			18	<div style="width: 0%; background-color: #ff9966; height: 10px;"></div>
11:00 PM		16	27			22			22	<div style="width: 0%; background-color: #ff9966; height: 10px;"></div>
11:15 PM		19	18			19			19	<div style="width: 0%; background-color: #ff9966; height: 10px;"></div>
11:30 PM		26	9			18			18	<div style="width: 0%; background-color: #ff9966; height: 10px;"></div>
11:45 PM		16	13			15			15	<div style="width: 0%; background-color: #ff9966; height: 10px;"></div>
<b>Day Total</b>	8801	8130				8492			8492	
<b>% Weekday Average</b>	103.6%	95.7%								
<b>% Week Average</b>	103.6%	95.7%				100%				
<b>AM Peak 15-min Vol</b>	11:45 AM	10:15 AM				10:15 AM			10:15 AM	
	185	165				165			165	
<b>PM Peak 15-min Vol</b>	12:00 PM	2:15 PM				2:15 PM			2:15 PM	
	199	190				188			188	
<b>Comments:</b>										

Report generated on 10/1/2024 10:27 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

**QC JOB #:** 16734702

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** Sep 24 2024 - Sep 25 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	24 Sep 24	24 Sep 24	25 Sep 24							
12:00 AM		3	9			6			6	
12:15 AM		2	8			5			5	
12:30 AM		3	7			5			5	
12:45 AM		4	4			4			4	
01:00 AM		3	2			3			3	
01:15 AM		4	2			3			3	
01:30 AM		1	3			2			2	
01:45 AM		3	2			3			3	
02:00 AM		0	3			2			2	
02:15 AM		4	4			4			4	
02:30 AM		2	2			2			2	
02:45 AM		2	0			1			1	
03:00 AM		3	3			3			3	
03:15 AM		0	4			2			2	
03:30 AM		5	0			3			3	
03:45 AM		2	1			2			2	
04:00 AM		2	3			3			3	
04:15 AM		3	2			3			3	
04:30 AM		3	9			6			6	
04:45 AM		6	6			6			6	
05:00 AM		9	7			8			8	
05:15 AM		12	12			12			12	
05:30 AM		18	11			15			15	
05:45 AM		19	31			25			25	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 10/1/2024 10:27 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

**QC JOB #:** 16734702

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** Sep 24 2024 - Sep 25 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	24 Sep 24	25 Sep 24								
06:00 AM		34	29			32			32	<div style="width: 32px; height: 10px; background-color: #f08080;"></div>
06:15 AM		36	37			37			37	<div style="width: 37px; height: 10px; background-color: #f08080;"></div>
06:30 AM		45	51			48			48	<div style="width: 48px; height: 10px; background-color: #f08080;"></div>
06:45 AM		75	76			76			76	<div style="width: 76px; height: 10px; background-color: #f08080;"></div>
07:00 AM		71	69			70			70	<div style="width: 70px; height: 10px; background-color: #f08080;"></div>
07:15 AM		106	111			109			109	<div style="width: 109px; height: 10px; background-color: #f08080;"></div>
07:30 AM		127	147			137			137	<div style="width: 137px; height: 10px; background-color: #f08080;"></div>
07:45 AM		110	121			116			116	<div style="width: 116px; height: 10px; background-color: #f08080;"></div>
08:00 AM		164	153			159			159	<div style="width: 159px; height: 10px; background-color: #f08080;"></div>
08:15 AM		120	138			129			129	<div style="width: 129px; height: 10px; background-color: #f08080;"></div>
08:30 AM		120	123			122			122	<div style="width: 122px; height: 10px; background-color: #f08080;"></div>
08:45 AM		117	120			119			119	<div style="width: 119px; height: 10px; background-color: #f08080;"></div>
09:00 AM		137	108			123			123	<div style="width: 123px; height: 10px; background-color: #f08080;"></div>
09:15 AM		117	98			108			108	<div style="width: 108px; height: 10px; background-color: #f08080;"></div>
09:30 AM		115	104			110			110	<div style="width: 110px; height: 10px; background-color: #f08080;"></div>
09:45 AM		92	124			108			108	<div style="width: 108px; height: 10px; background-color: #f08080;"></div>
10:00 AM		113	114			114			114	<div style="width: 114px; height: 10px; background-color: #f08080;"></div>
10:15 AM		126	104			115			115	<div style="width: 115px; height: 10px; background-color: #f08080;"></div>
10:30 AM		117	114			116			116	<div style="width: 116px; height: 10px; background-color: #f08080;"></div>
10:45 AM		127	113			120			120	<div style="width: 120px; height: 10px; background-color: #f08080;"></div>
11:00 AM		99	114			107			107	<div style="width: 107px; height: 10px; background-color: #f08080;"></div>
11:15 AM		87	116			102			102	<div style="width: 102px; height: 10px; background-color: #f08080;"></div>
11:30 AM		111	114			113			113	<div style="width: 113px; height: 10px; background-color: #f08080;"></div>
11:45 AM		129	45			87			87	<div style="width: 87px; height: 10px; background-color: #f08080;"></div>
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 10/1/2024 10:27 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

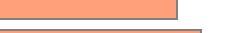
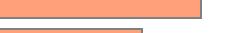
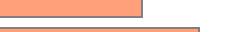
**QC JOB #:** 16734702

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** Sep 24 2024 - Sep 25 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	24 Sep 24	24 Sep 24	25 Sep 24							
12:00 PM		132	82			107			107	
12:15 PM		89	151			120			120	
12:30 PM		113	63			88			88	
12:45 PM		112	125			119			119	
01:00 PM		132	124			128			128	
01:15 PM		111	113			112			112	
01:30 PM		130	108			119			119	
01:45 PM		127	97			112			112	
02:00 PM		109	110			110			110	
02:15 PM		111	129			120			120	
02:30 PM		142	142			142			142	
02:45 PM		109	120			115			115	
03:00 PM		121	109			115			115	
03:15 PM		126	98			112			112	
03:30 PM		84	99			92			92	
03:45 PM		117	73			95			95	
04:00 PM		104	78			91			91	
04:15 PM		103	93			98			98	
04:30 PM		107	95			101			101	
04:45 PM		117	89			103			103	
05:00 PM		98	95			97			97	
05:15 PM		73	56			65			65	
05:30 PM		99	117			108			108	
05:45 PM		112	106			109			109	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 10/1/2024 10:27 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

## Type of report: Tube Count - Volume Data

LOCATION: NW Greenwood Ave btwn Hill and 1rst

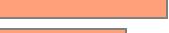
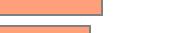
QC JOB #: 16734702

SPECIFIC LOCATION:

DIRECTION: WB

CITY/STATE: Bend, OR

DATE: Sep 24 2024 - Sep 25 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	24 Sep 24	24 Sep 24	25 Sep 24							
06:00 PM		103	116			110			110	
06:15 PM		108	96			102			102	
06:30 PM		79	79			79			79	
06:45 PM		78	66			72			72	
07:00 PM		86	77			82			82	
07:15 PM		70	78			74			74	
07:30 PM		71	61			66			66	
07:45 PM		51	68			60			60	
08:00 PM		63	53			58			58	
08:15 PM		51	35			43			43	
08:30 PM		43	41			42			42	
08:45 PM		30	34			32			32	
09:00 PM		41	54			48			48	
09:15 PM		30	27			29			29	
09:30 PM		35	16			26			26	
09:45 PM		18	27			23			23	
10:00 PM		18	28			23			23	
10:15 PM		13	14			14			14	
10:30 PM		13	8			11			11	
10:45 PM		4	17			11			11	
11:00 PM		11	13			12			12	
11:15 PM		12	11			12			12	
11:30 PM		9	6			8			8	
11:45 PM		6	8			7			7	
Day Total	6329	6083				6227			6227	
% Weekday Average	101.6%	97.7%								
% Week Average	101.6%	97.7%				100%				
AM Peak 15-min Vol	8:00 AM	8:00 AM				8:00 AM			8:00 AM	
	164	153				159			159	
PM Peak 15-min Vol	2:30 PM	12:15 PM				2:30 PM			2:30 PM	
	142	151				142			142	
Comments:										

Report generated on 10/1/2024 10:27 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

## Appendix C Traffic Volume Post-Construction (January 2025)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill (Video)

**QC JOB #:** 16896201

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** Jan 29 2025 - Jan 30 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	29 Jan 25	30 Jan 25								
12:00 AM			10	8		9			9	
12:15 AM			5	15		10			10	
12:30 AM			4	5		5			5	
12:45 AM			7	4		6			6	
01:00 AM			5	3		4			4	
01:15 AM			6	8		7			7	
01:30 AM			5	1		3			3	
01:45 AM			4	1		3			3	
02:00 AM			1	2		2			2	
02:15 AM			2	1		2			2	
02:30 AM			2	4		3			3	
02:45 AM			0	2		1			1	
03:00 AM			0	1		1			1	
03:15 AM			2	3		3			3	
03:30 AM			0	1		1			1	
03:45 AM			1	4		3			3	
04:00 AM			2	1		2			2	
04:15 AM			5	3		4			4	
04:30 AM			2	11		7			7	
04:45 AM			9	6		8			8	
05:00 AM			8	9		9			9	
05:15 AM			22	18		20			20	
05:30 AM			23	31		27			27	
05:45 AM			32	39		36			36	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 2/5/2025 4:49 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill (Video)

**QC JOB #:** 16896201

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** Jan 29 2025 - Jan 30 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	29 Jan 25	30 Jan 25								
06:00 AM			28	32		30			30	
06:15 AM			24	33		29			29	
06:30 AM			46	59		53			53	
06:45 AM			96	71		84			84	
07:00 AM			66	82		74			74	
07:15 AM			76	84		80			80	
07:30 AM			134	141		138			138	
07:45 AM			137	137		137			137	
08:00 AM			118	105		112			112	
08:15 AM			123	140		132			132	
08:30 AM			124	147		136			136	
08:45 AM			139	142		141			141	
09:00 AM			99	105		102			102	
09:15 AM			115	132		124			124	
09:30 AM			130	123		127			127	
09:45 AM			153	126		140			140	
10:00 AM			119	117		118			118	
10:15 AM			135	147		141			141	
10:30 AM			133	124		129			129	
10:45 AM			129	142		136			136	
11:00 AM			153	147		150			150	
11:15 AM			149	150		150			150	
11:30 AM			136	124		130			130	
11:45 AM			170	156		163			163	
Day Total										
% Weekday Average										
% Week Average										
AM Peak 15-min Vol										
PM Peak 15-min Vol										
Comments:										

Report generated on 2/5/2025 4:49 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill (Video)

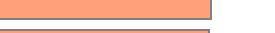
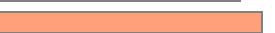
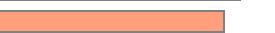
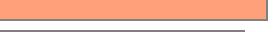
**QC JOB #:** 16896201

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** Jan 29 2025 - Jan 30 2025

Start Time	Mon 29 Jan 25	Tue 30 Jan 25	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
12:00 PM		159	166			163			163	
12:15 PM		156	168			162			162	
12:30 PM		146	117			132			132	
12:45 PM		151	161			156			156	
01:00 PM		183	176			180			180	
01:15 PM		151	156			154			154	
01:30 PM		162	142			152			152	
01:45 PM		155	183			169			169	
02:00 PM		191	181			186			186	
02:15 PM		181	164			173			173	
02:30 PM		182	181			182			182	
02:45 PM		189	206			198			198	
03:00 PM		174	167			171			171	
03:15 PM		177	191			184			184	
03:30 PM		204	182			193			193	
03:45 PM		176	194			185			185	
04:00 PM		188	191			190			190	
04:15 PM		170	193			182			182	
04:30 PM		183	160			172			172	
04:45 PM		171	168			170			170	
05:00 PM		195	207			201			201	
05:15 PM		184	187			186			186	
05:30 PM		189	152			171			171	
05:45 PM		151	147			149			149	
Day Total										
% Weekday Average										
% Week Average										
AM Peak 15-min Vol										
PM Peak 15-min Vol										
Comments:										

Report generated on 2/5/2025 4:49 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill (Video)

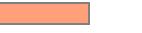
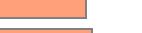
**QC JOB #:** 16896201

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** Jan 29 2025 - Jan 30 2025

Start Time	Mon 29 Jan 25	Tue 30 Jan 25	Wed 29 Jan 25	Thu 30 Jan 25	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
06:00 PM			111	133		122			122	
06:15 PM			118	128		123			123	
06:30 PM			96	130		113			113	
06:45 PM			103	114		109			109	
07:00 PM			102	109		106			106	
07:15 PM			73	86		80			80	
07:30 PM			77	77		77			77	
07:45 PM			86	78		82			82	
08:00 PM			72	101		87			87	
08:15 PM			88	89		89			89	
08:30 PM			88	65		77			77	
08:45 PM			71	73		72			72	
09:00 PM			65	67		66			66	
09:15 PM			52	70		61			61	
09:30 PM			48	47		48			48	
09:45 PM			29	42		36			36	
10:00 PM			32	33		33			33	
10:15 PM			34	36		35			35	
10:30 PM			25	22		24			24	
10:45 PM			16	19		18			18	
11:00 PM			26	21		24			24	
11:15 PM			15	17		16			16	
11:30 PM			14	15		15			15	
11:45 PM			14	11		13			13	
<b>Day Total</b>	8512	8670			8619				8619	
<b>% Weekday Average</b>	98.8%	100.6%								
<b>% Week Average</b>	98.8%	100.6%			100%					
<b>AM Peak 15-min Vol</b>	11:45 AM 170	11:45 AM 156			11:45 AM 163				11:45 AM 163	
<b>PM Peak 15-min Vol</b>	3:30 PM 204	5:00 PM 207			5:00 PM 201				5:00 PM 201	
<b>Comments:</b>										

Report generated on 2/5/2025 4:49 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill (Video)

**QC JOB #:** 16896201

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** Jan 29 2025 - Jan 30 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	29 Jan 25	30 Jan 25								
12:00 AM			3	7		5			5	
12:15 AM			5	6		6			6	
12:30 AM			4	2		3			3	
12:45 AM			4	4		4			4	
01:00 AM			7	1		4			4	
01:15 AM			3	2		3			3	
01:30 AM			2	2		2			2	
01:45 AM			5	2		4			4	
02:00 AM			0	1		1			1	
02:15 AM			4	5		5			5	
02:30 AM			2	1		2			2	
02:45 AM			0	0		0			0	
03:00 AM			3	0		2			2	
03:15 AM			4	3		4			4	
03:30 AM			2	3		3			3	
03:45 AM			3	1		2			2	
04:00 AM			2	1		2			2	
04:15 AM			3	4		4			4	
04:30 AM			3	3		3			3	
04:45 AM			6	4		5			5	
05:00 AM			4	3		4			4	
05:15 AM			8	13		11			11	
05:30 AM			10	11		11			11	
05:45 AM			20	21		21			21	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 2/5/2025 4:49 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill (Video)

**QC JOB #:** 16896201

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** Jan 29 2025 - Jan 30 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	29 Jan 25	30 Jan 25								
06:00 AM			23	22		23			23	
06:15 AM			27	29		28			28	
06:30 AM			38	52		45			45	
06:45 AM			67	66		67			67	
07:00 AM			54	55		55			55	
07:15 AM			67	85		76			76	
07:30 AM			135	131		133			133	
07:45 AM			167	133		150			150	
08:00 AM			144	115		130			130	
08:15 AM			118	111		115			115	
08:30 AM			117	114		116			116	
08:45 AM			119	122		121			121	
09:00 AM			101	99		100			100	
09:15 AM			99	96		98			98	
09:30 AM			111	108		110			110	
09:45 AM			113	122		118			118	
10:00 AM			97	106		102			102	
10:15 AM			74	103		89			89	
10:30 AM			105	101		103			103	
10:45 AM			111	113		112			112	
11:00 AM			112	93		103			103	
11:15 AM			99	104		102			102	
11:30 AM			108	78		93			93	
11:45 AM			117	100		109			109	
Day Total										
% Weekday Average										
% Week Average										
AM Peak 15-min Vol										
PM Peak 15-min Vol										
Comments:										

Report generated on 2/5/2025 4:49 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill (Video)

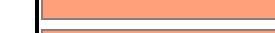
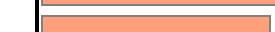
**QC JOB #:** 16896201

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** Jan 29 2025 - Jan 30 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	29 Jan 25	30 Jan 25								
12:00 PM			119	118		119			119	
12:15 PM			110	135		123			123	
12:30 PM			121	101		111			111	
12:45 PM			109	127		118			118	
01:00 PM			112	137		125			125	
01:15 PM			117	106		112			112	
01:30 PM			113	97		105			105	
01:45 PM			98	111		105			105	
02:00 PM			98	101		100			100	
02:15 PM			116	88		102			102	
02:30 PM			119	117		118			118	
02:45 PM			117	126		122			122	
03:00 PM			117	108		113			113	
03:15 PM			106	113		110			110	
03:30 PM			116	101		109			109	
03:45 PM			140	148		144			144	
04:00 PM			105	122		114			114	
04:15 PM			137	133		135			135	
04:30 PM			121	108		115			115	
04:45 PM			141	116		129			129	
05:00 PM			119	118		119			119	
05:15 PM			123	134		129			129	
05:30 PM			107	125		116			116	
05:45 PM			105	129		117			117	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 2/5/2025 4:49 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill (Video)

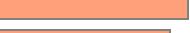
**QC JOB #:** 16896201

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** Jan 29 2025 - Jan 30 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	29 Jan 25	30 Jan 25								
06:00 PM			111	102		107			107	
06:15 PM			96	99		98			98	
06:30 PM			86	107		97			97	
06:45 PM			81	79		80			80	
07:00 PM			62	72		67			67	
07:15 PM			44	42		43			43	
07:30 PM			58	40		49			49	
07:45 PM			54	61		58			58	
08:00 PM			41	54		48			48	
08:15 PM			48	48		48			48	
08:30 PM			38	36		37			37	
08:45 PM			28	36		32			32	
09:00 PM			27	32		30			30	
09:15 PM			17	38		28			28	
09:30 PM			27	31		29			29	
09:45 PM			22	26		24			24	
10:00 PM			28	11		20			20	
10:15 PM			12	25		19			19	
10:30 PM			8	11		10			10	
10:45 PM			9	14		12			12	
11:00 PM			13	9		11			11	
11:15 PM			7	13		10			10	
11:30 PM			4	8		6			6	
11:45 PM			6	12		9			9	
<b>Day Total</b>		6143	6183			6191			6191	
<b>% Weekday Average</b>		99.2%	99.9%							
<b>% Week Average</b>		99.2%	99.9%		100%					
<b>AM Peak 15-min Vol</b>		7:45 AM	7:45 AM		7:45 AM				7:45 AM	
		167	133		150				150	
<b>PM Peak 15-min Vol</b>		4:45 PM	3:45 PM		3:45 PM				3:45 PM	
		141	148		144				144	
<b>Comments:</b>										

Report generated on 2/5/2025 4:49 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1st (Video)

**QC JOB #:** 16896202

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** Jan 29 2025 - Jan 30 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	29 Jan 25	30 Jan 25								
12:00 AM			9	6		8			8	
12:15 AM			5	18		12			12	
12:30 AM			5	4		5			5	
12:45 AM			9	2		6			6	
01:00 AM			6	7		7			7	
01:15 AM			5	7		6			6	
01:30 AM			5	1		3			3	
01:45 AM			4	1		3			3	
02:00 AM			1	2		2			2	
02:15 AM			3	1		2			2	
02:30 AM			2	4		3			3	
02:45 AM			1	4		3			3	
03:00 AM			0	0		0			0	
03:15 AM			2	3		3			3	
03:30 AM			2	6		4			4	
03:45 AM			4	5		5			5	
04:00 AM			3	6		5			5	
04:15 AM			9	5		7			7	
04:30 AM			3	15		9			9	
04:45 AM			12	15		14			14	
05:00 AM			12	14		13			13	
05:15 AM			22	22		22			22	
05:30 AM			36	37		37			37	
05:45 AM			39	52		46			46	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 2/5/2025 4:49 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1st (Video)

**QC JOB #:** 16896202

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** Jan 29 2025 - Jan 30 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	29 Jan 25	30 Jan 25								
06:00 AM			41	38		40			40	
06:15 AM			44	51		48			48	
06:30 AM			57	70		64			64	
06:45 AM			131	93		112			112	
07:00 AM			78	92		85			85	
07:15 AM			99	99		99			99	
07:30 AM			151	163		157			157	
07:45 AM			141	165		153			153	
08:00 AM			139	134		137			137	
08:15 AM			140	147		144			144	
08:30 AM			142	165		154			154	
08:45 AM			159	174		167			167	
09:00 AM			118	119		119			119	
09:15 AM			122	149		136			136	
09:30 AM			137	142		140			140	
09:45 AM			158	151		155			155	
10:00 AM			138	129		134			134	
10:15 AM			153	164		159			159	
10:30 AM			157	137		147			147	
10:45 AM			155	167		161			161	
11:00 AM			182	164		173			173	
11:15 AM			183	168		176			176	
11:30 AM			155	159		157			157	
11:45 AM			179	188		184			184	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 2/5/2025 4:49 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1st (Video)

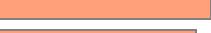
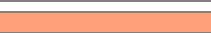
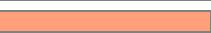
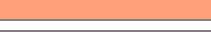
**QC JOB #:** 16896202

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** Jan 29 2025 - Jan 30 2025

Start Time	Mon 29 Jan 25	Tue 30 Jan 25	Wed 29 Jan 25	Thu 30 Jan 25	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
12:00 PM			190	201		196			196	
12:15 PM			180	187		184			184	
12:30 PM			186	144		165			165	
12:45 PM			176	184		180			180	
01:00 PM			203	188		196			196	
01:15 PM			186	191		189			189	
01:30 PM			188	176		182			182	
01:45 PM			178	215		197			197	
02:00 PM			220	204		212			212	
02:15 PM			203	200		202			202	
02:30 PM			217	216		217			217	
02:45 PM			203	229		216			216	
03:00 PM			194	186		190			190	
03:15 PM			197	212		205			205	
03:30 PM			233	214		224			224	
03:45 PM			204	223		214			214	
04:00 PM			219	218		219			219	
04:15 PM			206	229		218			218	
04:30 PM			216	176		196			196	
04:45 PM			194	190		192			192	
05:00 PM			245	239		242			242	
05:15 PM			222	217		220			220	
05:30 PM			198	172		185			185	
05:45 PM			178	171		175			175	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 2/5/2025 4:49 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1st (Video)

QC JOB #: 16896202

**SPECIFIC LOCATION:**

DIRECTION: EB

**CITY/STATE:** Bend, OR

DATE: Jan 29 2025 - Jan 30 2025

Start Time	Mon 29 Jan 25	Tue 30 Jan 25	Wed 29 Jan 25	Thu 30 Jan 25	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
06:00 PM			121	140		131			131	
06:15 PM			133	126		130			130	
06:30 PM			112	135		124			124	
06:45 PM			106	117		112			112	
07:00 PM			120	116		118			118	
07:15 PM			92	92		92			92	
07:30 PM			83	84		84			84	
07:45 PM			96	83		90			90	
08:00 PM			71	112		92			92	
08:15 PM			94	90		92			92	
08:30 PM			90	86		88			88	
08:45 PM			72	79		76			76	
09:00 PM			74	73		74			74	
09:15 PM			60	88		74			74	
09:30 PM			51	52		52			52	
09:45 PM			28	54		41			41	
10:00 PM			36	35		36			36	
10:15 PM			36	38		37			37	
10:30 PM			23	28		26			26	
10:45 PM			20	20		20			20	
11:00 PM			32	25		29			29	
11:15 PM			18	17		18			18	
11:30 PM			13	21		17			17	
11:45 PM			15	12		14			14	
<b>Day Total</b>		9790	9970			9909			9909	
<b>% Weekday Average</b>		98.8%	100.6%							
<b>% Week Average</b>		98.8%	100.6%		100%					
<b>AM Peak 15-min Vol</b>		11:15 AM 183	11:45 AM 188		11:45 AM 184			11:45 AM 184		
<b>PM Peak 15-min Vol</b>		5:00 PM 245	5:00 PM 239		5:00 PM 242			5:00 PM 242		
<b>Comments:</b>										

Report generated on 2/5/2025 4:49 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1st (Video)

**QC JOB #:** 16896202

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** Jan 29 2025 - Jan 30 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	29 Jan 25	30 Jan 25								
12:00 AM			3	7		5			5	
12:15 AM			5	6		6			6	
12:30 AM			4	3		4			4	
12:45 AM			3	4		4			4	
01:00 AM			1	2		2			2	
01:15 AM			2	3		3			3	
01:30 AM			2	3		3			3	
01:45 AM			4	2		3			3	
02:00 AM			0	1		1			1	
02:15 AM			6	7		7			7	
02:30 AM			2	1		2			2	
02:45 AM			0	0		0			0	
03:00 AM			3	1		2			2	
03:15 AM			4	3		4			4	
03:30 AM			2	3		3			3	
03:45 AM			4	1		3			3	
04:00 AM			2	1		2			2	
04:15 AM			4	5		5			5	
04:30 AM			4	3		4			4	
04:45 AM			7	6		7			7	
05:00 AM			5	6		6			6	
05:15 AM			12	16		14			14	
05:30 AM			11	12		12			12	
05:45 AM			25	26		26			26	
<b>Day Total</b>										
% Weekday Average										
% Week Average										
AM Peak 15-min Vol										
PM Peak 15-min Vol										
<b>Comments:</b>										

Report generated on 2/5/2025 4:49 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1st (Video)

**QC JOB #:** 16896202

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** Jan 29 2025 - Jan 30 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	29 Jan 25	30 Jan 25								
06:00 AM			28	25		27			27	
06:15 AM			41	38		40			40	
06:30 AM			43	54		49			49	
06:45 AM			92	81		87			87	
07:00 AM			70	77		74			74	
07:15 AM			98	119		109			109	
07:30 AM			174	166		170			170	
07:45 AM			217	172		195			195	
08:00 AM			176	146		161			161	
08:15 AM			133	140		137			137	
08:30 AM			161	147		154			154	
08:45 AM			160	142		151			151	
09:00 AM			115	124		120			120	
09:15 AM			118	113		116			116	
09:30 AM			129	121		125			125	
09:45 AM			133	151		142			142	
10:00 AM			111	108		110			110	
10:15 AM			91	131		111			111	
10:30 AM			123	126		125			125	
10:45 AM			125	128		127			127	
11:00 AM			132	107		120			120	
11:15 AM			119	116		118			118	
11:30 AM			122	100		111			111	
11:45 AM			149	119		134			134	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 2/5/2025 4:49 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1st (Video)

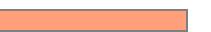
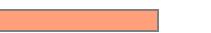
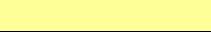
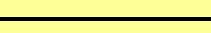
**QC JOB #:** 16896202

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** Jan 29 2025 - Jan 30 2025

Start Time	Mon 29 Jan 25	Tue 30 Jan 25	Wed 29 Jan 25	Thu 30 Jan 25	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
12:00 PM			127	131		129			129	
12:15 PM			126	159		143			143	
12:30 PM			154	121		138			138	
12:45 PM			139	145		142			142	
01:00 PM			132	149		141			141	
01:15 PM			135	139		137			137	
01:30 PM			135	113		124			124	
01:45 PM			118	149		134			134	
02:00 PM			119	119		119			119	
02:15 PM			140	123		132			132	
02:30 PM			141	122		132			132	
02:45 PM			149	132		141			141	
03:00 PM			134	125		130			130	
03:15 PM			131	131		131			131	
03:30 PM			135	110		123			123	
03:45 PM			169	163		166			166	
04:00 PM			127	140		134			134	
04:15 PM			157	158		158			158	
04:30 PM			126	136		131			131	
04:45 PM			174	147		161			161	
05:00 PM			132	137		135			135	
05:15 PM			132	141		137			137	
05:30 PM			117	161		139			139	
05:45 PM			122	141		132			132	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 2/5/2025 4:49 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1st (Video)

**QC JOB #:** 16896202

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** Jan 29 2025 - Jan 30 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	29 Jan 25	30 Jan 25								
06:00 PM			120	112		116			116	
06:15 PM			111	115		113			113	
06:30 PM			100	133		117			117	
06:45 PM			91	90		91			91	
07:00 PM			75	83		79			79	
07:15 PM			54	45		50			50	
07:30 PM			75	51		63			63	
07:45 PM			62	71		67			67	
08:00 PM			41	58		50			50	
08:15 PM			61	46		54			54	
08:30 PM			42	33		38			38	
08:45 PM			26	37		32			32	
09:00 PM			30	35		33			33	
09:15 PM			17	38		28			28	
09:30 PM			27	30		29			29	
09:45 PM			22	27		25			25	
10:00 PM			33	12		23			23	
10:15 PM			16	28		22			22	
10:30 PM			8	9		9			9	
10:45 PM			11	15		13			13	
11:00 PM			15	11		13			13	
11:15 PM			8	12		10			10	
11:30 PM			8	9		9			9	
11:45 PM			8	14		11			11	
<b>Day Total</b>	7307	7279			7325				7325	
<b>% Weekday Average</b>	99.8%	99.4%								
<b>% Week Average</b>	99.8%	99.4%		100%						
<b>AM Peak 15-min Vol</b>	7:45 AM 217	7:45 AM 172		7:45 AM 195			7:45 AM 195			
<b>PM Peak 15-min Vol</b>	4:45 PM 174	3:45 PM 163		3:45 PM 166			3:45 PM 166			
<b>Comments:</b>										

Report generated on 2/5/2025 4:49 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

## Appendix D Traffic Volume Post-Construction (June 2025)

Type of report: Midblock Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

**QC JOB #:** 17100404

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** Jun 4 2025 - Jun 5 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	4 Jun 25	5 Jun 25								
12:00 AM			10	4		7			7	
12:15 AM			9	0		5			5	
12:30 AM			11	3		7			7	
12:45 AM			8	8		8			8	
01:00 AM			2	13		8			8	
01:15 AM			8	3		6			6	
01:30 AM			4	3		4			4	
01:45 AM			2	4		3			3	
02:00 AM			3	0		2			2	
02:15 AM			4	8		6			6	
02:30 AM			1	4		3			3	
02:45 AM			1	5		3			3	
03:00 AM			1	4		3			3	
03:15 AM			1	1		1			1	
03:30 AM			5	1		3			3	
03:45 AM			5	7		6			6	
04:00 AM			2	5		4			4	
04:15 AM			4	5		5			5	
04:30 AM			7	3		5			5	
04:45 AM			6	13		10			10	
05:00 AM			11	9		10			10	
05:15 AM			17	19		18			18	
05:30 AM			22	21		22			22	
05:45 AM			32	26		29			29	
<b>Day Total</b>										
% Weekday Average										
% Week Average										
AM Peak 15-min Vol										
PM Peak 15-min Vol										
<b>Comments:</b>										

Report generated on 6/26/2025 10:02 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Midblock Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

**QC JOB #:** 17100404

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** Jun 4 2025 - Jun 5 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	4 Jun 25		5 Jun 25							
06:00 AM			39	32		36			36	
06:15 AM			49	47		48			48	
06:30 AM			74	61		68			68	
06:45 AM			73	64		69			69	
07:00 AM			85	72		79			79	
07:15 AM			115	85		100			100	
07:30 AM			169	167		168			168	
07:45 AM			183	174		179			179	
08:00 AM			160	136		148			148	
08:15 AM			143	140		142			142	
08:30 AM			149	126		138			138	
08:45 AM			158	149		154			154	
09:00 AM			140	121		131			131	
09:15 AM			130	133		132			132	
09:30 AM			140	124		132			132	
09:45 AM			154	145		150			150	
10:00 AM			130	118		124			124	
10:15 AM			136	135		136			136	
10:30 AM			138	113		126			126	
10:45 AM			154	119		137			137	
11:00 AM			133	116		125			125	
11:15 AM			138	120		129			129	
11:30 AM			134	118		126			126	
11:45 AM			96	115		106			106	
Day Total										
% Weekday Average										
% Week Average										
AM Peak 15-min Vol										
PM Peak 15-min Vol										
Comments:										

Report generated on 6/26/2025 10:02 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Midblock Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

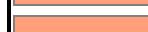
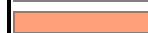
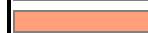
**QC JOB #:** 17100404

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** Jun 4 2025 - Jun 5 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	4 Jun 25		5 Jun 25							
12:00 PM			66	118		92			92	
12:15 PM			104	123		114			114	
12:30 PM			133	132		133			133	
12:45 PM			130	121		126			126	
01:00 PM			125	129		127			127	
01:15 PM			129	126		128			128	
01:30 PM			122	<b>146</b>		134			134	
01:45 PM			131	129		130			130	
02:00 PM			124	106		115			115	
02:15 PM			137	124		131			131	
02:30 PM			118	119		119			119	
02:45 PM			124	131		128			128	
03:00 PM			150	119		135			135	
03:15 PM			131	106		119			119	
03:30 PM			128	108		118			118	
03:45 PM			125	132		129			129	
04:00 PM			121	146		134			134	
04:15 PM			<b>152</b>	142		<b>147</b>			<b>147</b>	
04:30 PM			130	141		136			136	
04:45 PM			125	131		128			128	
05:00 PM			77	137		107			107	
05:15 PM			112	129		121			121	
05:30 PM			121	117		119			119	
05:45 PM			143	118		131			131	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 6/26/2025 10:02 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

## Type of report: Midblock Count - Volume Data

LOCATION: NW Greenwood Ave btwn Hill and 1rst

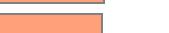
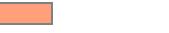
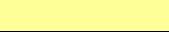
QC JOB #: 17100404

SPECIFIC LOCATION:

DIRECTION: WB

CITY/STATE: Bend, OR

DATE: Jun 4 2025 - Jun 5 2025

Start Time	Mon 4 Jun 25	Tue 5 Jun 25	Wed 4 Jun 25	Thu 5 Jun 25	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
06:00 PM			135	117		126			126	
06:15 PM			93	106		100			100	
06:30 PM			111	98		105			105	
06:45 PM			93	84		89			89	
07:00 PM			75	80		78			78	
07:15 PM			84	81		83			83	
07:30 PM			75	64		70			70	
07:45 PM			89	70		80			80	
08:00 PM			88	69		79			79	
08:15 PM			61	67		64			64	
08:30 PM			33	50		42			42	
08:45 PM			66	58		62			62	
09:00 PM			49	70		60			60	
09:15 PM			52	49		51			51	
09:30 PM			45	45		45			45	
09:45 PM			40	56		48			48	
10:00 PM			36	46		41			41	
10:15 PM			25	28		27			27	
10:30 PM			11	34		23			23	
10:45 PM			13	23		18			18	
11:00 PM			25	10		18			18	
11:15 PM			15	23		19			19	
11:30 PM			6	16		11			11	
11:45 PM			12	13		13			13	
Day Total	7486	7286				7414			7414	
% Weekday Average	101%	98.3%								
% Week Average	101%	98.3%			100%					
AM Peak 15-min Vol	7:45 AM 183	7:45 AM 174			7:45 AM 179				7:45 AM 179	
PM Peak 15-min Vol	4:15 PM 152	1:30 PM 146			4:15 PM 147				4:15 PM 147	
Comments:										

Report generated on 6/26/2025 10:02 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Midblock Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

**QC JOB #:** 17100404

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** Jun 4 2025 - Jun 5 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
			4 Jun 25	5 Jun 25						
12:00 AM			11	6		9			9	
12:15 AM			7	0		4			4	
12:30 AM			8	9		9			9	
12:45 AM			8	10		9			9	
01:00 AM			13	10		12			12	
01:15 AM			9	9		9			9	
01:30 AM			5	3		4			4	
01:45 AM			3	4		4			4	
02:00 AM			0	1		1			1	
02:15 AM			3	5		4			4	
02:30 AM			3	3		3			3	
02:45 AM			4	7		6			6	
03:00 AM			2	1		2			2	
03:15 AM			4	2		3			3	
03:30 AM			6	7		7			7	
03:45 AM			10	4		7			7	
04:00 AM			6	7		7			7	
04:15 AM			7	6		7			7	
04:30 AM			13	8		11			11	
04:45 AM			11	16		14			14	
05:00 AM			20	10		15			15	
05:15 AM			31	21		26			26	
05:30 AM			32	39		36			36	
05:45 AM			56	59		58			58	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 6/26/2025 10:02 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Midblock Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

**QC JOB #:** 17100404

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** Jun 4 2025 - Jun 5 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	4 Jun 25		5 Jun 25							
06:00 AM			43	36		40			40	
06:15 AM			65	49		57			57	
06:30 AM			84	91		88			88	
06:45 AM			130	109		120			120	
07:00 AM			86	75		81			81	
07:15 AM			109	89		99			99	
07:30 AM			155	134		145			145	
07:45 AM			142	172		157			157	
08:00 AM			109	133		121			121	
08:15 AM			128	152		140			140	
08:30 AM			150	147		149			149	
08:45 AM			161	163		162			162	
09:00 AM			122	162		142			142	
09:15 AM			130	138		134			134	
09:30 AM			145	136		141			141	
09:45 AM			160	132		146			146	
10:00 AM			152	125		139			139	
10:15 AM			149	140		145			145	
10:30 AM			151	167		159			159	
10:45 AM			173	144		159			159	
11:00 AM			143	146		145			145	
11:15 AM			146	157		152			152	
11:30 AM			169	148		159			159	
11:45 AM			153	140		147			147	
Day Total										
% Weekday Average										
% Week Average										
AM Peak 15-min Vol										
PM Peak 15-min Vol										
Comments:										

Report generated on 6/26/2025 10:02 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Midblock Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

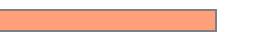
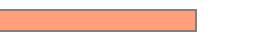
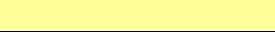
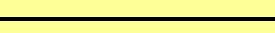
**QC JOB #:** 17100404

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** Jun 4 2025 - Jun 5 2025

Start Time	Mon 4 Jun 25	Tue 5 Jun 25	Wed 4 Jun 25	Thu 5 Jun 25	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
12:00 PM			174	192		183			183	
12:15 PM			178	160		169			169	
12:30 PM			179	178		179			179	
12:45 PM			191	156		174			174	
01:00 PM			173	176		175			175	
01:15 PM			199	156		178			178	
01:30 PM			164	143		154			154	
01:45 PM			172	189		181			181	
02:00 PM			185	162		174			174	
02:15 PM			184	175		180			180	
02:30 PM			159	167		163			163	
02:45 PM			186	186		186			186	
03:00 PM			192	180		186			186	
03:15 PM			179	175		177			177	
03:30 PM			175	145		160			160	
03:45 PM			190	178		184			184	
04:00 PM			195	226		211			211	
04:15 PM			194	158		176			176	
04:30 PM			192	168		180			180	
04:45 PM			163	205		184			184	
05:00 PM			166	191		179			179	
05:15 PM			183	163		173			173	
05:30 PM			168	161		165			165	
05:45 PM			145	124		135			135	
Day Total										
% Weekday Average										
% Week Average										
AM Peak 15-min Vol										
PM Peak 15-min Vol										
Comments:										

Report generated on 6/26/2025 10:02 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Midblock Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

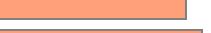
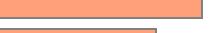
**QC JOB #:** 17100404

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** Jun 4 2025 - Jun 5 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	4 Jun 25		5 Jun 25							
06:00 PM			132	165		149			149	
06:15 PM			160	159		160			160	
06:30 PM			131	123		127			127	
06:45 PM			112	116		114			114	
07:00 PM			110	96		103			103	
07:15 PM			100	92		96			96	
07:30 PM			91	88		90			90	
07:45 PM			77	87		82			82	
08:00 PM			104	80		92			92	
08:15 PM			106	99		103			103	
08:30 PM			48	120		84			84	
08:45 PM			98	97		98			98	
09:00 PM			79	64		72			72	
09:15 PM			87	76		82			82	
09:30 PM			62	56		59			59	
09:45 PM			64	67		66			66	
10:00 PM			52	70		61			61	
10:15 PM			42	93		68			68	
10:30 PM			13	45		29			29	
10:45 PM			36	48		42			42	
11:00 PM			21	22		22			22	
11:15 PM			21	25		23			23	
11:30 PM			16	17		17			17	
11:45 PM			16	19		18			18	
<b>Day Total</b>			9491	9370		9457			9457	
<b>% Weekday Average</b>			100.4%	99.1%						
<b>% Week Average</b>			100.4%	99.1%		100%				
<b>AM Peak 15-min Vol</b>			10:45 AM 173	7:45 AM 172		8:45 AM 162			8:45 AM 162	
<b>PM Peak 15-min Vol</b>			1:15 PM 199	4:00 PM 226		4:00 PM 211			4:00 PM 211	
<b>Comments:</b>										

Report generated on 6/26/2025 10:02 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Midblock Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

**QC JOB #:** 17100403

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** Jun 4 2025 - Jun 5 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
			4 Jun 25	5 Jun 25						
12:00 AM			11	13		12			12	
12:15 AM			11	8		10			10	
12:30 AM			8	10		9			9	
12:45 AM			4	9		7			7	
01:00 AM			4	5		5			5	
01:15 AM			9	10		10			10	
01:30 AM			4	2		3			3	
01:45 AM			3	1		2			2	
02:00 AM			1	3		2			2	
02:15 AM			3	7		5			5	
02:30 AM			2	3		3			3	
02:45 AM			3	4		4			4	
03:00 AM			0	2		1			1	
03:15 AM			3	2		3			3	
03:30 AM			5	2		4			4	
03:45 AM			7	3		5			5	
04:00 AM			4	6		5			5	
04:15 AM			6	3		5			5	
04:30 AM			6	7		7			7	
04:45 AM			10	10		10			10	
05:00 AM			12	11		12			12	
05:15 AM			22	19		21			21	
05:30 AM			26	27		27			27	
05:45 AM			44	40		42			42	
<b>Day Total</b>										
% Weekday Average										
% Week Average										
AM Peak 15-min Vol										
PM Peak 15-min Vol										
<b>Comments:</b>										

Report generated on 6/26/2025 10:25 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Midblock Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

**QC JOB #:** 17100403

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** Jun 4 2025 - Jun 5 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	4 Jun 25		5 Jun 25							
06:00 AM			34	27		31			31	
06:15 AM			46	41		44			44	
06:30 AM			74	72		73			73	
06:45 AM			105	84		95			95	
07:00 AM			80	73		77			77	
07:15 AM			92	105		99			99	
07:30 AM			156	124		140			140	
07:45 AM			130	154		142			142	
08:00 AM			111	128		120			120	
08:15 AM			125	147		136			136	
08:30 AM			147	151		149			149	
08:45 AM			143	130		137			137	
09:00 AM			103	135		119			119	
09:15 AM			127	131		129			129	
09:30 AM			130	120		125			125	
09:45 AM			158	135		147			147	
10:00 AM			119	131		125			125	
10:15 AM			110	137		124			124	
10:30 AM			119	142		131			131	
10:45 AM			158	132		145			145	
11:00 AM			126	138		132			132	
11:15 AM			137	147		142			142	
11:30 AM			153	152	153	153			153	
11:45 AM			140	123		132			132	
Day Total										
% Weekday Average										
% Week Average										
AM Peak 15-min Vol										
PM Peak 15-min Vol										
Comments:										

Report generated on 6/26/2025 10:25 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Midblock Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

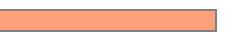
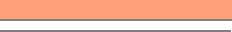
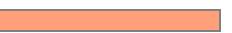
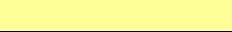
**QC JOB #:** 17100403

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** Jun 4 2025 - Jun 5 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
12:00 PM			150	166		158			158	
12:15 PM			163	144		154			154	
12:30 PM			168	158		163			163	
12:45 PM			172	115		144			144	
01:00 PM			168	159		164			164	
01:15 PM			161	137		149			149	
01:30 PM			163	130		147			147	
01:45 PM			152	163		158			158	
02:00 PM			170	156		163			163	
02:15 PM			162	166		164			164	
02:30 PM			165	147		156			156	
02:45 PM			148	156		152			152	
03:00 PM			169	167		168			168	
03:15 PM			165	154		160			160	
03:30 PM			142	151		147			147	
03:45 PM			143	156		150			150	
04:00 PM			165	182		174			174	
04:15 PM			176	146		161			161	
04:30 PM			175	148		162			162	
04:45 PM			153	163		158			158	
05:00 PM			171	172		172			172	
05:15 PM			169	157		163			163	
05:30 PM			127	139		133			133	
05:45 PM			130	119		125			125	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 6/26/2025 10:25 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Midblock Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

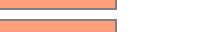
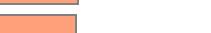
**QC JOB #:** 17100403

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** Jun 4 2025 - Jun 5 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
06:00 PM			116	141		129			129	
06:15 PM			153	151		152			152	
06:30 PM			117	109		113			113	
06:45 PM			106	118		112			112	
07:00 PM			112	109		111			111	
07:15 PM			77	101		89			89	
07:30 PM			90	94		92			92	
07:45 PM			91	79		85			85	
08:00 PM			91	78		85			85	
08:15 PM			108	97		103			103	
08:30 PM			106	100		103			103	
08:45 PM			101	89		95			95	
09:00 PM			79	71		75			75	
09:15 PM			75	75		75			75	
09:30 PM			52	55		54			54	
09:45 PM			65	58		62			62	
10:00 PM			50	71		61			61	
10:15 PM			41	86		64			64	
10:30 PM			28	53		41			41	
10:45 PM			36	35		36			36	
11:00 PM			22	37		30			30	
11:15 PM			17	26		22			22	
11:30 PM			9	16		13			13	
11:45 PM			14	19		17			17	
<b>Day Total</b>		8614	8585			8625			8625	
<b>% Weekday Average</b>		99.9%	99.5%							
<b>% Week Average</b>		99.9%	99.5%		100%					
<b>AM Peak 15-min Vol</b>		9:45 AM 158	7:45 AM 154		11:30 AM 153				11:30 AM 153	
<b>PM Peak 15-min Vol</b>		4:15 PM 176	4:00 PM 182		4:00 PM 174				4:00 PM 174	
<b>Comments:</b>										

Report generated on 6/26/2025 10:25 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Midblock Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

**QC JOB #:** 17100403

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** Jun 4 2025 - Jun 5 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
			4 Jun 25	5 Jun 25						
12:00 AM			16	3		10			10	
12:15 AM			9	3		6			6	
12:30 AM			10	6		8			8	
12:45 AM			7	6		7			7	
01:00 AM			1	8		5			5	
01:15 AM			2	8		5			5	
01:30 AM			5	3		4			4	
01:45 AM			1	3		2			2	
02:00 AM			3	0		2			2	
02:15 AM			4	7		6			6	
02:30 AM			1	4		3			3	
02:45 AM			2	4		3			3	
03:00 AM			1	4		3			3	
03:15 AM			0	1		1			1	
03:30 AM			5	0		3			3	
03:45 AM			3	4		4			4	
04:00 AM			2	4		3			3	
04:15 AM			3	4		4			4	
04:30 AM			4	2		3			3	
04:45 AM			5	9		7			7	
05:00 AM			7	6		7			7	
05:15 AM			14	12		13			13	
05:30 AM			15	18		17			17	
05:45 AM			25	22		24			24	
<b>Day Total</b>										
% Weekday Average										
% Week Average										
AM Peak 15-min Vol										
PM Peak 15-min Vol										
<b>Comments:</b>										

Report generated on 6/26/2025 10:25 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Midblock Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

**QC JOB #:** 17100403

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** Jun 4 2025 - Jun 5 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	4 Jun 25		5 Jun 25							
06:00 AM			31	23		27			27	
06:15 AM			38	32		35			35	
06:30 AM			57	50		54			54	
06:45 AM			54	49		52			52	
07:00 AM			68	57		63			63	
07:15 AM			83	80		82			82	
07:30 AM			110	130		120			120	
07:45 AM			123	113		118			118	
08:00 AM			106	93		100			100	
08:15 AM			120	99		110			110	
08:30 AM			115	97		106			106	
08:45 AM			118	104		111			111	
09:00 AM			101	100		101			101	
09:15 AM			71	99		85			85	
09:30 AM			111	90		101			101	
09:45 AM			96	113		105			105	
10:00 AM			92	75		84			84	
10:15 AM			101	103		102			102	
10:30 AM			92	91		92			92	
10:45 AM			93	105		99			99	
11:00 AM			95	86		91			91	
11:15 AM			83	96		90			90	
11:30 AM			81	90		86			86	
11:45 AM			67	93		80			80	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 6/26/2025 10:25 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Midblock Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

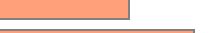
**QC JOB #:** 17100403

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** Jun 4 2025 - Jun 5 2025

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	4 Jun 25		5 Jun 25							
12:00 PM			46	75		61			61	
12:15 PM			76	99		88			88	
12:30 PM			95	86		91			91	
12:45 PM			65	82		74			74	
01:00 PM			82	99		91			91	
01:15 PM			83	94		89			89	
01:30 PM			88	103		96			96	
01:45 PM			88	95		92			92	
02:00 PM			99	101		100			100	
02:15 PM			101	82		92			92	
02:30 PM			101	102		102			102	
02:45 PM			98	93		96			96	
03:00 PM			107	81		94			94	
03:15 PM			97	83		90			90	
03:30 PM			91	95		93			93	
03:45 PM			87	115		101			101	
04:00 PM			93	109		101			101	
04:15 PM			98	88		93			93	
04:30 PM			88	113		101			101	
04:45 PM			81	79		80			80	
05:00 PM			71	87		79			79	
05:15 PM			68	86		77			77	
05:30 PM			100	91		96			96	
05:45 PM			87	104		96			96	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 6/26/2025 10:25 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

## Type of report: Midblock Count - Volume Data

LOCATION: NW Greenwood Ave btwn Harriman and Hill

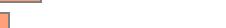
QC JOB #: 17100403

SPECIFIC LOCATION:

DIRECTION: WB

CITY/STATE: Bend, OR

DATE: Jun 4 2025 - Jun 5 2025

Start Time	Mon 4 Jun 25	Tue 5 Jun 25	Wed 4 Jun 25	Thu 5 Jun 25	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
06:00 PM		108	91			100			100	
06:15 PM		78	99			89			89	
06:30 PM		90	75			83			83	
06:45 PM		74	66			70			70	
07:00 PM		69	81			75			75	
07:15 PM		72	63			68			68	
07:30 PM		57	73			65			65	
07:45 PM		79	58			69			69	
08:00 PM		72	56			64			64	
08:15 PM		52	48			50			50	
08:30 PM		49	44			47			47	
08:45 PM		54	48			51			51	
09:00 PM		35	55			45			45	
09:15 PM		41	35			38			38	
09:30 PM		37	39			38			38	
09:45 PM		31	52			42			42	
10:00 PM		25	34			30			30	
10:15 PM		21	22			22			22	
10:30 PM		24	31			28			28	
10:45 PM		9	20			15			15	
11:00 PM		22	18			20			20	
11:15 PM		14	21			18			18	
11:30 PM		7	7			7			7	
11:45 PM		11	12			12			12	
Day Total		5472	5599			5563			5563	
% Weekday Average		98.4%	100.6%							
% Week Average		98.4%	100.6%			100%				
AM Peak 15-min Vol		7:45 AM 123	7:30 AM 130			7:30 AM 120			7:30 AM 120	
PM Peak 15-min Vol		6:00 PM 108	3:45 PM 115			2:30 PM 102			2:30 PM 102	
Comments:										

Report generated on 6/26/2025 10:25 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

## Appendix E Methodology Memorandum



1001 SW Emkay Drive, Suite 140  
Bend, OR 97702  
P 541.312.8300

# Technical Memorandum

November 5, 2024

Project# 29385

To: Todd Johnson & Garrett Sabourin  
City of Bend

From: Matt Kittelson, PE, Jacki Smith, PE, Doreen Gui, Kittelson & Associates, Inc.  
RE: Bend Midtown Crossing - Greenwood Traffic Monitoring: Preconstruction

## TRAFFIC MONITORING SUMMARY

As part of the Midtown Crossing Progressive Design Build effort, Kittelson & Associates, Inc. (Kittelson) is supporting a traffic data monitoring inventory for the Greenwood Avenue Quick Build. The Quick Build is a one-year pilot project to evaluate the safety, operations, and impact of transforming the existing roadway on Greenwood Avenue from 2<sup>nd</sup> Street to Wall Street to a three-lane cross section with buffered bike lanes. As part of the evaluation, **traffic data will be monitored both pre-and post-construction to document trends in congestion, travel speeds, and traffic volumes**. This memorandum documents the monitoring methodology and presents the initial preconstruction data for future comparison when the quick build is implemented.

As part of the monitoring process, three data collection methods will be collected. These methods include:

- Traffic Count Data
  - 48-hour travel volume, speed, and vehicle classification data for vehicles
  - 48-hour pedestrian and bicycle volumes
- Travel Time Data
  - Google API
  - INRIX

Data will be collected during the following time periods for evaluation:

- Preconstruction – May 2024
  - Construction Anticipated July/August 2024
- Postconstruction – September 2024
- Postconstruction – January/February 2024
- Postconstruction – May/June 2024

### Traffic Count Data

Traffic counts were collected to understand the existing travel demand on Greenwood Avenue. Two days (48 hours) of vehicle, pedestrian, and bicycle counts were collected at two locations on Tuesday May 14, 2024 and Wednesday May 15, 2024:

- Greenwood Avenue between Harriman Street and Hill Street (west of Hill Street).
- Greenwood Avenue between Hill Street and 1<sup>st</sup> Street (east of Hill Street near the undercrossing).

Raw traffic volume data is provided in Appendix C-1.

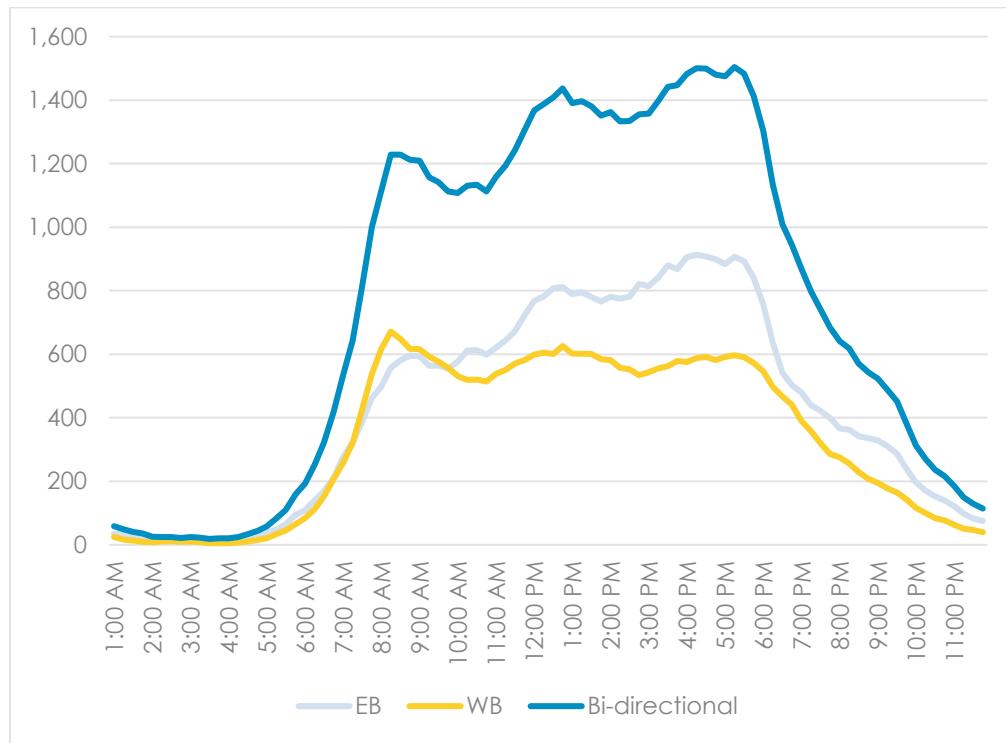
## Vehicle Volume

Kittelson analyzed the time-of-day distribution of vehicle volume by averaging two days of data. Similar trends were found at both count locations. Volumes were slightly higher west of Hill Street, with an average daily volume of 17,874 vehicles (2,353 or 15 percent higher than east of Hill Street).

Figure 1 shows the hourly volume distribution on Greenwood Avenue west of Hill Street. The following trends were found:

- The AM peak hour occurs at 7:30 AM to 8:30 AM, with 1,229 total vehicles.
- The PM peak hour occurs at 4:30 PM to 5:30 PM, with 1,505 total vehicles.
- The AM peak is more prominent for westbound traffic and the PM peak is more prominent for eastbound traffic. This is consistent with expected traffic patterns into and out of the downtown area.
- Traffic volumes remain fairly consistent throughout the day with a minor peak during midday (12:00pm-1:00pm).

**Figure 1 NW Greenwood Avenue Vehicle Volume Distribution by Time of Day**



## Vehicle Speed Distribution

Speed data were reported in 5 mph intervals from the collected tube counts. The tubes were set at midblock locations so that the recorded speed was not affected by traffic control at intersections. Kittelson aggregated the two days of data and identified the 85<sup>th</sup> percentile speed:

- At both count locations, the 85<sup>th</sup> percentile speeds for both directions are between 31 mph (miles per hour) to 35 mph.
  - The posted speed on Greenwood Avenue is 20mph west of Hill Street and 25mph east of Hill Street.

- The 85<sup>th</sup> percentile speeds are generally consistent throughout the day.

To supplement the 85<sup>th</sup> percentile speed metric, Kittelson also analyzed the time-of-day trend of average speed by assigning an estimated speed to each vehicle based on the 5-mph interval recorded. For example, if a vehicle's speed was between 26 mph and 30 mph, its speed was assumed to be 28 mph. The following trends were found:

- Similar to 85<sup>th</sup> percentile speed, average speed is generally consistent throughout the day. It ranges from 25 mph to 35 mph, except for westbound traffic at the west of Hill Street location, which drops to 22 mph around noon (12 PM to 2 PM).
- At both count locations, the estimated average speed of eastbound traffic is slightly higher than westbound traffic, except in early AM (12 AM to 5 AM).

## Pedestrian and Bicycle Volume

Table 1 and Note: Average volumes were rounded and might not add to total.

Table 2 summarize the daily and peak hour pedestrian and bicycle volumes using the average of two days of data. As the peak demand of pedestrian and bicycle activity often does not overlap with peak vehicle demand, the 60-min intervals with highest pedestrian or bicycle count were also listed. The following trends were found:

- Pedestrian volume.
  - At both locations, more than 70% of pedestrians use the sidewalk on the north side of Greenwood Avenue.
  - Pedestrian volumes are higher at the count location west of Hill Street. Less people use the undercrossing sidewalks than the sidewalk facilities near downtown.
- Bicycle volume.
  - Bicycle volumes are relatively balanced between the two count locations and the two directions.

**Table 1 NW Greenwood Avenue Pedestrian Volume Summary**

Time Period	North Sidewalk	South Sidewalk	Total
<b>West of Hill Street</b>			
Daily	349	126	474
AM Peak Hour (7:30 AM to 8:30 AM)	9	4	13
PM Peak Hour (4:30 PM to 5:30 PM)	14	12	26
Pedestrian Peak Hour (6:55 PM to 7:55 PM)	34	9	43
<b>East of Hill Street (Near Undercrossing)</b>			
Daily	154	56	209
AM Peak Hour (7:30 AM to 8:30 AM)	2	2	4
PM Peak Hour (4:30 PM to 5:30 PM)	12	3	15
Pedestrian Peak Hour (3:25 PM to 4:25 PM)	21	6	27

Note: Average volumes were rounded and might not add to total.

**Table 2 NW Greenwood Avenue Bicycle Volume Summary**

Time Period	Eastbound	Westbound	Total
<b>West of Hill Street</b>			
Daily	55	46	101
AM Peak Hour (7:30 AM to 8:30 AM)	4	2	6
PM Peak Hour (4:30 PM to 5:30 PM)	5	5	10
Pedestrian Peak Hour (2:25 PM to 3:25 PM)	8	4	12
<b>East of Hill Street (Near Undercrossing)</b>			
Daily	53	55	108
AM Peak Hour (7:30 AM to 8:30 AM)	3	1	3
PM Peak Hour (4:30 PM to 5:30 PM)	5	9	13
Pedestrian Peak Hour (5:15 PM to 6:15 PM)	7	10	16

Note: Average volumes were rounded and might not add up.

## Traffic Count Data Comparison

Once the quick build is constructed, three additional data collection periods will be evaluated to compare the “before and after” trends along the Greenwood Avenue corridor. These comparisons will be communicated in a graphical format to observe the trends and changes over time for both volume and speed data.

## Travel Time Data

Travel time data from two data sources, INRIX and Google API, are used to monitor the change of travel time preconstruction and postconstruction. The following section presents the methodology used to analyze the data. Detailed preconstruction and postconstruction travel time comparison will be presented after postconstruction data are collected.

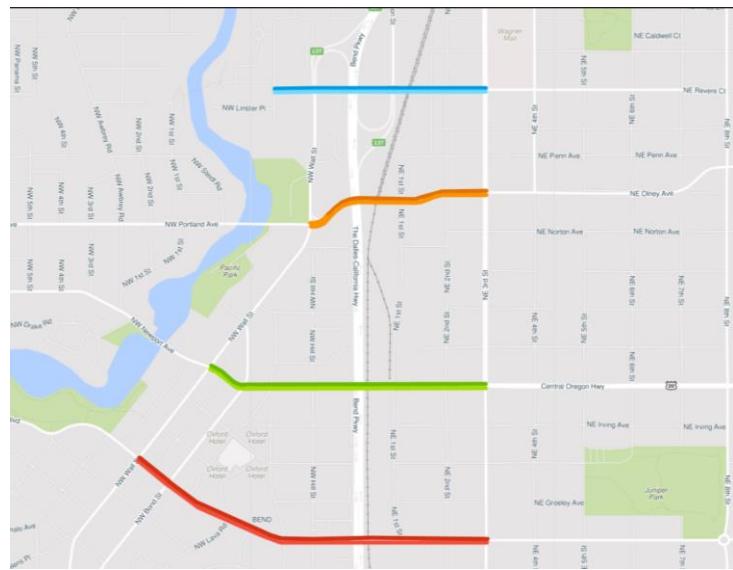
## Monitoring Period and Corridors

For the preconstruction period, travel time data from INRIX and Google API were downloaded or queried between 6 AM and 9 PM on weekdays (Tuesday, Wednesday, Thursday) for two weeks between May 21 and May 30. To provide consistency between the data sets, traffic count and travel time data will be collected within a 2-3 week period of each other for the remaining data collection periods.

To monitor the cumulative, systemwide effect of the quick-build project, three parallel corridors were also included in this analysis, as shown in Figure 2:

- Revere Avenue, from Harriman Street to 3<sup>rd</sup> Street.
- Olney Avenue, from Wall Street to 3<sup>rd</sup> Street.
- Greenwood Avenue, from Wall Street to 3<sup>rd</sup> Street.
- Franklin Avenue, from Wall Street to 3<sup>rd</sup> Street.

## Figure 2 Monitoring Corridors



# INRIX Data

INRIX provides vehicle travel time and speed data based on aggregated traffic data from GPS-enabled devices and road sensors. The data is available in Regional Integrated Transportation Information System (RITIS), a data sharing and visualization platform. Kittelson accessed INRIX data from RITIS, under Oregon Department of Transportation (ODOT)'s agreement with the platform.

## INRIX Methodology

Data was downloaded using the "Massive Data Downloader" tool in RITIS following the steps below for the preconstruction period. A similar process will be applied to the postconstruction data sets:

1. Select INRIX segments.
    - a. INRIX reports travel time data on pre-determined XD segments. Select the segments that most closely match the extent of the monitoring corridors.
  2. Specify date and time.
    - a. Select days to be weekdays between May 21 and May 30.
    - b. Select time of day to be between 6 AM to 9 PM.
  3. Select 15-minute granularity.
    - a. For each XD segment, INRIX calculates the average speed by computing the harmonic mean of all relevant speed values within the 15-minute window. The harmonic mean is defined as the number of values divided by the sum of the reciprocals of the values:
      - i. 
$$XD \text{ segment speed} = \frac{n}{\left(\frac{1}{speed_1} + \frac{1}{speed_2} + \dots + \frac{1}{speed_n}\right)}$$
    - b. The travel time metric is calculated as segment length divided by segment speed.
  4. Filter for confidence score of 30.
    - a. INRIX uses the confidence score to differentiate real time data with speed inferred from historical average. A confidence score of 30 means only real time data is used.

As each monitoring corridor consists of multiple INRIX XD segments, segment travel times need to be aggregated into corridor travel time:

1. Identify the corridor (e.g., eastbound NW Greenwood Avenue) corresponding to each XD segment.
2. Filter INRIX records with a "C-Value" lower than 85.
  - a. "C-Value" is a metric used by INRIX to indicate the probability the current value represents the actual roadway conditions based on recent and historical trends. The value ranges from 0 to 100, with 100 indicating high probability.
  - b. Filtering out records with low "C-Value" helps exclude non-recurring congestion, such as incidents and special events.
3. Calculate corridor travel time of each 15-minute window by summing up travel times of the corresponding XD segments.
  - a. If the travel time of any XD segment is missing for a 15-minute window (due to lack of real time data or low "C-Value"), the corridor travel time will not be reported at that timestamp, as the data are incomplete.
4. The average corridor travel time can be calculated by averaging data over the two-week period.

## INRIX Data Summary

Below lists the initial results from the preconstruction period:

- Eastbound and westbound travel times on Greenwood Avenue from Wall Street to 3<sup>rd</sup> Street are similar and generally range from 70 to 105 seconds between 6 AM to 9 PM.
- Consistent with the trend identified from tube counts, eastbound travel times increase during PM peak hour, while the effect is less prominent for westbound travel time.

INRIX output sheets are provided in Appendix C-2.

## Google API

Another source of travel time data is Google Directions API. It uses an algorithm to incorporate distance, speed limit, historical speed data, and real-time traffic conditions collected from GPS devices.

## Google API Methodology

Travel times were queried and aggregated using the following steps. A similar process will be applied to the postconstruction data sets:

1. Set up corridors.
  - a. Specify the longitude and latitude of the origins and destinations of the monitoring corridors.
  - b. As API searches for the fastest path, add intermediate waypoints along the monitoring corridor to fix the path.
2. Select mode to be driving.
3. Call the API every 15 minutes.
  - a. A python script was developed to query travel time every 15 minutes between 6 AM to 9 PM on weekdays and record the data.
4. The average corridor travel time can be calculated by averaging data over the two-week period between May 21 and May 30.

## Google API Data Summary

Below lists the initial results from the preconstruction period:

- Eastbound and westbound travel times on NW Greenwood Avenue are similar and generally range from 95 to 175 seconds between 6 AM to 9 PM.
  - Note the Google API travel time results can vary from INRIX result as the INRIX XD segments might not coincide exactly with the origins and destinations specified in Google API. In addition, as the monitoring corridors start and end at intersections, INRIX and Google API might have different ways to handle the starting and ending intersections.
  - It is recommended that quantitative results of preconstruction and postconstruction travel time should be compared using the same data source, and that trends from INRIX and Google API should be compared qualitatively.
- Similar with trends identified from tube counts and INRIX data, eastbound travel times increase during PM peak hour, while the effect is less prominent for westbound travel time.

Google API output sheets are provided in Appendix C-3.

## Travel Time Data Comparison

Similar to traffic count data, once the quick build is constructed, three additional data collection periods will be evaluated to compare the “before and after” trends along the Greenwood Avenue corridor and along the parallel routes identified above. These comparisons will be communicated in a graphical format to observe the trends and changes over time.

## Appendix E - 1 Traffic Volume Data

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

**QC JOB #:** 16414404

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	14 May 24	15 May 24							
12:00 AM		7	15			11			11	
12:15 AM		6	10			8			8	
12:30 AM		5	8			7			7	
12:45 AM		6	1			4			4	
01:00 AM		5	10			8			8	
01:15 AM		7	5			6			6	
01:30 AM		4	4			4			4	
01:45 AM		2	5			4			4	
02:00 AM		3	2			3			3	
02:15 AM		1	2			2			2	
02:30 AM		2	3			3			3	
02:45 AM		2	4			3			3	
03:00 AM		4	2			3			3	
03:15 AM		2	2			2			2	
03:30 AM		0	1			1			1	
03:45 AM		2	3			3			3	
04:00 AM		3	2			3			3	
04:15 AM		3	6			5			5	
04:30 AM		2	7			5			5	
04:45 AM		8	7			8			8	
05:00 AM		10	7			9			9	
05:15 AM		14	14			14			14	
05:30 AM		16	15			16			16	
05:45 AM		30	29			30			30	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

**QC JOB #:** 16414404

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	14 May 24	15 May 24							
06:00 AM		15	18			17			17	<div style="width: 10%;"></div>
06:15 AM		29	29			29			29	<div style="width: 15%;"></div>
06:30 AM		47	28			38			38	<div style="width: 10%;"></div>
06:45 AM		60	50			55			55	<div style="width: 12%;"></div>
07:00 AM		67	71			69			69	<div style="width: 15%;"></div>
07:15 AM		83	68			76			76	<div style="width: 13%;"></div>
07:30 AM		98	103			101			101	<div style="width: 17%;"></div>
07:45 AM		134	136			135			135	<div style="width: 20%;"></div>
08:00 AM		113	103			108			108	<div style="width: 16%;"></div>
08:15 AM		135	131			133			133	<div style="width: 20%;"></div>
08:30 AM		121	122			122			122	<div style="width: 17%;"></div>
08:45 AM		138	144			141			141	<div style="width: 21%;"></div>
09:00 AM		103	117			110			110	<div style="width: 15%;"></div>
09:15 AM		91	101			96			96	<div style="width: 14%;"></div>
09:30 AM		113	118			116			116	<div style="width: 15%;"></div>
09:45 AM		134	144			139			139	<div style="width: 20%;"></div>
10:00 AM		128	134			131			131	<div style="width: 17%;"></div>
10:15 AM		145	121			133			133	<div style="width: 15%;"></div>
10:30 AM		114	149			132			132	<div style="width: 17%;"></div>
10:45 AM		110	133			122			122	<div style="width: 14%;"></div>
11:00 AM		128	185			157			157	<div style="width: 25%;"></div>
11:15 AM		135	170			153			153	<div style="width: 23%;"></div>
11:30 AM		144	140			142			142	<div style="width: 17%;"></div>
11:45 AM		173	145			159			159	<div style="width: 22%;"></div>
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

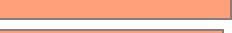
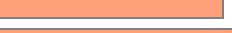
**QC JOB #:** 16414404

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	15 May 24								
12:00 PM		175	173			174			174	
12:15 PM		174	164			169			169	
12:30 PM		163	188			176			176	
12:45 PM		178	179			179			179	
01:00 PM		158	186			172			172	
01:15 PM		157	200			179			179	
01:30 PM		148	136			142			142	
01:45 PM		157	177			167			167	
02:00 PM		168	199			184			184	
02:15 PM		169	163			166			166	
02:30 PM		176	163			170			170	
02:45 PM		185	185			185			185	
03:00 PM		182	178			180			180	
03:15 PM		212	193			203			203	
03:30 PM		192	205			199			199	
03:45 PM		162	195			179			179	
04:00 PM		189	193			191			191	
04:15 PM		199	171			185			185	
04:30 PM		176	192			184			184	
04:45 PM		173	184			179			179	
05:00 PM		188	182			185			185	
05:15 PM		208	188			198			198	
05:30 PM		165	196			181			181	
05:45 PM		138	127			133			133	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

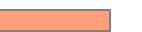
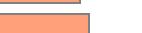
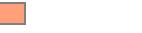
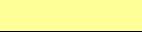
**QC JOB #:** 16414404

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	14 May 24	15 May 24							
06:00 PM		126	129			128			128	
06:15 PM		101	127			114			114	
06:30 PM		80	106			93			93	
06:45 PM		80	110			95			95	
07:00 PM		91	118			105			105	
07:15 PM		63	88			76			76	
07:30 PM		94	72			83			83	
07:45 PM		80	67			74			74	
08:00 PM		66	93			80			80	
08:15 PM		87	80			84			84	
08:30 PM		66	87			77			77	
08:45 PM		77	66			72			72	
09:00 PM		67	76			72			72	
09:15 PM		54	63			59			59	
09:30 PM		42	51			47			47	
09:45 PM		30	41			36			36	
10:00 PM		45	27			36			36	
10:15 PM		53	28			41			41	
10:30 PM		39	28			34			34	
10:45 PM		25	19			22			22	
11:00 PM		17	13			15			15	
11:15 PM		20	14			17			17	
11:30 PM		21	9			15			15	
11:45 PM		16	14			15			15	
<b>Day Total</b>	8334	8667				8526			8526	
<b>% Weekday Average</b>	97.7%	101.7%								
<b>% Week Average</b>	97.7%	101.7%				100%				
<b>AM Peak 15-min Vol</b>	11:45 AM	11:00 AM				11:45 AM			11:45 AM	
	173	185				159			159	
<b>PM Peak 15-min Vol</b>	3:15 PM	3:30 PM				3:15 PM			3:15 PM	
	212	205				203			203	
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

**QC JOB #:** 16414404

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	14 May 24	15 May 24							
12:00 AM		4	6			5			5	
12:15 AM		4	15			10			10	
12:30 AM		3	6			5			5	
12:45 AM		9	6			8			8	
01:00 AM		1	2			2			2	
01:15 AM		3	3			3			3	
01:30 AM		4	1			3			3	
01:45 AM		1	7			4			4	
02:00 AM		0	1			1			1	
02:15 AM		1	2			2			2	
02:30 AM		4	5			5			5	
02:45 AM		2	0			1			1	
03:00 AM		2	1			2			2	
03:15 AM		0	2			1			1	
03:30 AM		0	1			1			1	
03:45 AM		1	1			1			1	
04:00 AM		2	2			2			2	
04:15 AM		1	4			3			3	
04:30 AM		2	5			4			4	
04:45 AM		8	4			6			6	
05:00 AM		9	4			7			7	
05:15 AM		13	11			12			12	
05:30 AM		18	10			14			14	
05:45 AM		25	15			20			20	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

**QC JOB #:** 16414404

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	14 May 24	15 May 24							
06:00 AM		26	17			22			22	<div style="width: 10%;">10%</div>
06:15 AM		37	36			37			37	<div style="width: 15%;">15%</div>
06:30 AM		52	44			48			48	<div style="width: 18%;">18%</div>
06:45 AM		60	74			67			67	<div style="width: 22%;">22%</div>
07:00 AM		65	66			66			66	<div style="width: 20%;">20%</div>
07:15 AM		109	78			94			94	<div style="width: 25%;">25%</div>
07:30 AM		146	116			131			131	<div style="width: 30%;">30%</div>
07:45 AM		187	149			168			168	<div style="width: 35%;">35%</div>
08:00 AM		140	124			132			132	<div style="width: 32%;">32%</div>
08:15 AM		138	167			153			153	<div style="width: 38%;">38%</div>
08:30 AM		129	121			125			125	<div style="width: 34%;">34%</div>
08:45 AM		146	152			149			149	<div style="width: 36%;">36%</div>
09:00 AM		127	136			132			132	<div style="width: 33%;">33%</div>
09:15 AM		134	131			133			133	<div style="width: 34%;">34%</div>
09:30 AM		109	119			114			114	<div style="width: 28%;">28%</div>
09:45 AM		120	161			141			141	<div style="width: 40%;">40%</div>
10:00 AM		108	107			108			108	<div style="width: 25%;">25%</div>
10:15 AM		105	120			113			113	<div style="width: 31%;">31%</div>
10:30 AM		106	119			113			113	<div style="width: 31%;">31%</div>
10:45 AM		126	113			120			120	<div style="width: 33%;">33%</div>
11:00 AM		111	153			132			132	<div style="width: 38%;">38%</div>
11:15 AM		141	137			139			139	<div style="width: 35%;">35%</div>
11:30 AM		111	137			124			124	<div style="width: 32%;">32%</div>
11:45 AM		147	130			139			139	<div style="width: 36%;">36%</div>
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

**QC JOB #:** 16414404

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon 14 May 24	Tue 15 May 24	Wed 15 May 24	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
12:00 PM		147	159			153			153	
12:15 PM		119	120			120			120	
12:30 PM		127	116			122			122	
12:45 PM		134	145			140			140	
01:00 PM		136	121			129			129	
01:15 PM		138	123			131			131	
01:30 PM		128	123			126			126	
01:45 PM		117	146			132			132	
02:00 PM		124	135			130			130	
02:15 PM		116	122			119			119	
02:30 PM		105	130			118			118	
02:45 PM		141	118			130			130	
03:00 PM		134	137			136			136	
03:15 PM		144	111			128			128	
03:30 PM		134	134			134			134	
03:45 PM		135	145			140			140	
04:00 PM		138	125			132			132	
04:15 PM		137	129			133			133	
04:30 PM		128	135			132			132	
04:45 PM		136	124			130			130	
05:00 PM		139	151			145			145	
05:15 PM		140	140			140			140	
05:30 PM		132	120			126			126	
05:45 PM		113	119			116			116	
Day Total										
% Weekday Average										
% Week Average										
AM Peak 15-min Vol										
PM Peak 15-min Vol										
Comments:										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Harriman and Hill

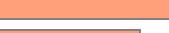
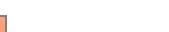
**QC JOB #:** 16414404

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	14 May 24	15 May 24							
06:00 PM		102	128			115			115	
06:15 PM		97	86			92			92	
06:30 PM		99	99			99			99	
06:45 PM		79	93			86			86	
07:00 PM		71	60			66			66	
07:15 PM		60	60			60			60	
07:30 PM		61	66			64			64	
07:45 PM		56	64			60			60	
08:00 PM		50	74			62			62	
08:15 PM		54	56			55			55	
08:30 PM		43	35			39			39	
08:45 PM		40	35			38			38	
09:00 PM		33	77			55			55	
09:15 PM		26	29			28			28	
09:30 PM		35	32			34			34	
09:45 PM		17	21			19			19	
10:00 PM		22	21			22			22	
10:15 PM		17	12			15			15	
10:30 PM		16	17			17			17	
10:45 PM		12	16			14			14	
11:00 PM		16	11			14			14	
11:15 PM		6	6			6			6	
11:30 PM		11	18			15			15	
11:45 PM		4	9			7			7	
<b>Day Total</b>	6966	7074				7046			7046	
<b>% Weekday Average</b>	98.9%	100.4%								
<b>% Week Average</b>	98.9%	100.4%				100%				
<b>AM Peak 15-min Vol</b>	7:45 AM	8:15 AM				7:45 AM			7:45 AM	
	187	167				168			168	
<b>PM Peak 15-min Vol</b>	12:00 PM	12:00 PM				12:00 PM			12:00 PM	
	147	159				153			153	
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

**QC JOB #:** 16414405

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	14 May 24	15 May 24							
12:00 AM		9	12			11			11	
12:15 AM		6	9			8			8	
12:30 AM		8	12			10			10	
12:45 AM		8	4			6			6	
01:00 AM		8	14			11			11	
01:15 AM		6	5			6			6	
01:30 AM		5	4			5			5	
01:45 AM		3	7			5			5	
02:00 AM		3	2			3			3	
02:15 AM		2	3			3			3	
02:30 AM		2	5			4			4	
02:45 AM		3	4			4			4	
03:00 AM		6	2			4			4	
03:15 AM		4	2			3			3	
03:30 AM		3	3			3			3	
03:45 AM		5	5			5			5	
04:00 AM		3	4			4			4	
04:15 AM		5	7			6			6	
04:30 AM		4	13			9			9	
04:45 AM		10	11			11			11	
05:00 AM		13	12			13			13	
05:15 AM		17	18			18			18	
05:30 AM		23	26			25			25	
05:45 AM		41	39			40			40	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

**QC JOB #:** 16414405

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	14 May 24	15 May 24							
06:00 AM		26	28			27			27	
06:15 AM		45	52			49			49	
06:30 AM		63	44			54			54	
06:45 AM		92	71			82			82	
07:00 AM		91	95			93			93	
07:15 AM		101	88			95			95	
07:30 AM		121	118			120			120	
07:45 AM		150	160			155			155	
08:00 AM		137	122			130			130	
08:15 AM		167	140			154			154	
08:30 AM		148	137			143			143	
08:45 AM		173	167			170			170	
09:00 AM		123	133			128			128	
09:15 AM		117	130			124			124	
09:30 AM		144	143			144			144	
09:45 AM		160	159			160			160	
10:00 AM		144	156			150			150	
10:15 AM		163	154			159			159	
10:30 AM		136	154			145			145	
10:45 AM		125	165			145			145	
11:00 AM		147	198			173			173	
11:15 AM		161	200			181			181	
11:30 AM		171	178			175			175	
11:45 AM		207	184			196			196	
Day Total										
% Weekday Average										
% Week Average										
AM Peak 15-min Vol										
PM Peak 15-min Vol										
Comments:										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

**QC JOB #:** 16414405

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon 14 May 24	Tue 15 May 24	Wed 15 May 24	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
12:00 PM		225	211			218			218	
12:15 PM		207	182			195			195	
12:30 PM		194	206			200			200	
12:45 PM		196	201			199			199	
01:00 PM		173	219			196			196	
01:15 PM		187	214			201			201	
01:30 PM		186	185			186			186	
01:45 PM		174	195			185			185	
02:00 PM		191	231			211			211	
02:15 PM		195	194			195			195	
02:30 PM		196	187			192			192	
02:45 PM		220	229			225			225	
03:00 PM		192	215			204			204	
03:15 PM		228	217			223			223	
03:30 PM		213	245			229			229	
03:45 PM		199	227			213			213	
04:00 PM		245	239			242			242	
04:15 PM		235	223			229			229	
04:30 PM		228	221			225			225	
04:45 PM		199	208			204			204	
05:00 PM		230	225			228			228	
05:15 PM		257	247			252			252	
05:30 PM		198	222			210			210	
05:45 PM		162	140			151			151	
Day Total										
% Weekday Average										
% Week Average										
AM Peak 15-min Vol										
PM Peak 15-min Vol										
Comments:										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

**QC JOB #:** 16414405

**SPECIFIC LOCATION:**

**DIRECTION:** EB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	14 May 24	15 May 24							
06:00 PM		140	149			145			145	
06:15 PM		113	147			130			130	
06:30 PM		97	135			116			116	
06:45 PM		103	123			113			113	
07:00 PM		107	135			121			121	
07:15 PM		80	100			90			90	
07:30 PM		107	88			98			98	
07:45 PM		97	84			91			91	
08:00 PM		76	100			88			88	
08:15 PM		93	81			87			87	
08:30 PM		69	83			76			76	
08:45 PM		78	91			85			85	
09:00 PM		72	90			81			81	
09:15 PM		66	73			70			70	
09:30 PM		47	56			52			52	
09:45 PM		33	44			39			39	
10:00 PM		44	30			37			37	
10:15 PM		55	32			44			44	
10:30 PM		33	33			33			33	
10:45 PM		29	23			26			26	
11:00 PM		19	19			19			19	
11:15 PM		24	17			21			21	
11:30 PM		22	12			17			17	
11:45 PM		20	16			18			18	
<b>Day Total</b>	9863	10243				10079			10079	
<b>% Weekday Average</b>	97.9%	101.6%								
<b>% Week Average</b>	97.9%	101.6%				100%				
<b>AM Peak 15-min Vol</b>	11:45 AM	11:15 AM				11:45 AM			11:45 AM	
	207	200				196			196	
<b>PM Peak 15-min Vol</b>	5:15 PM	5:15 PM				5:15 PM			5:15 PM	
	257	247				252			252	
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

**QC JOB #:** 16414405

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	14 May 24	15 May 24							
12:00 AM		4	6			5			5	
12:15 AM		2	16			9			9	
12:30 AM		4	9			7			7	
12:45 AM		10	4			7			7	
01:00 AM		2	2			2			2	
01:15 AM		1	1			1			1	
01:30 AM		5	2			4			4	
01:45 AM		1	5			3			3	
02:00 AM		0	2			1			1	
02:15 AM		2	3			3			3	
02:30 AM		4	5			5			5	
02:45 AM		2	1			2			2	
03:00 AM		3	1			2			2	
03:15 AM		0	1			1			1	
03:30 AM		0	2			1			1	
03:45 AM		2	1			2			2	
04:00 AM		2	3			3			3	
04:15 AM		1	3			2			2	
04:30 AM		3	6			5			5	
04:45 AM		6	6			6			6	
05:00 AM		10	5			8			8	
05:15 AM		17	14			16			16	
05:30 AM		21	12			17			17	
05:45 AM		33	17			25			25	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

**QC JOB #:** 16414405

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	14 May 24	15 May 24							
06:00 AM		31	23			27			27	
06:15 AM		43	45			44			44	
06:30 AM		61	52			57			57	
06:45 AM		69	89			79			79	
07:00 AM		77	80			79			79	
07:15 AM		125	90			108			108	
07:30 AM		178	150			164			164	
07:45 AM		199	178			189			189	
08:00 AM		164	147			156			156	
08:15 AM		155	172			164			164	
08:30 AM		144	137			141			141	
08:45 AM		165	151			158			158	
09:00 AM		144	163			154			154	
09:15 AM		136	146			141			141	
09:30 AM		128	121			125			125	
09:45 AM		124	154			139			139	
10:00 AM		129	125			127			127	
10:15 AM		118	139			129			129	
10:30 AM		122	130			126			126	
10:45 AM		142	123			133			133	
11:00 AM		128	174			151			151	
11:15 AM		133	149			141			141	
11:30 AM		135	157			146			146	
11:45 AM		141	147			144			144	
Day Total										
% Weekday Average										
% Week Average										
AM Peak 15-min Vol										
PM Peak 15-min Vol										
Comments:										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

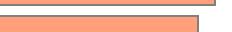
**QC JOB #:** 16414405

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

Start Time	Mon 14 May 24	Tue 15 May 24	Wed 15 May 24	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
12:00 PM		171	165			168			168	
12:15 PM		138	156			147			147	
12:30 PM		131	153			142			142	
12:45 PM		169	169			169			169	
01:00 PM		139	149			144			144	
01:15 PM		148	145			147			147	
01:30 PM		138	144			141			141	
01:45 PM		140	167			154			154	
02:00 PM		139	142			141			141	
02:15 PM		114	131			123			123	
02:30 PM		122	150			136			136	
02:45 PM		153	117			135			135	
03:00 PM		143	157			150			150	
03:15 PM		139	131			135			135	
03:30 PM		145	141			143			143	
03:45 PM		145	157			151			151	
04:00 PM		154	140			147			147	
04:15 PM		150	143			147			147	
04:30 PM		145	149			147			147	
04:45 PM		143	139			141			141	
05:00 PM		148	166			157			157	
05:15 PM		155	149			152			152	
05:30 PM		143	138			141			141	
05:45 PM		122	125			124			124	
<b>Day Total</b>										
<b>% Weekday Average</b>										
<b>% Week Average</b>										
<b>AM Peak 15-min Vol</b>										
<b>PM Peak 15-min Vol</b>										
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

Type of report: Tube Count - Volume Data

**LOCATION:** NW Greenwood Ave btwn Hill and 1rst

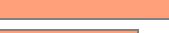
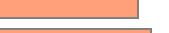
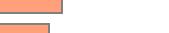
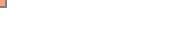
**QC JOB #:** 16414405

**SPECIFIC LOCATION:**

**DIRECTION:** WB

**CITY/STATE:** Bend, OR

**DATE:** May 14 2024 - May 15 2024

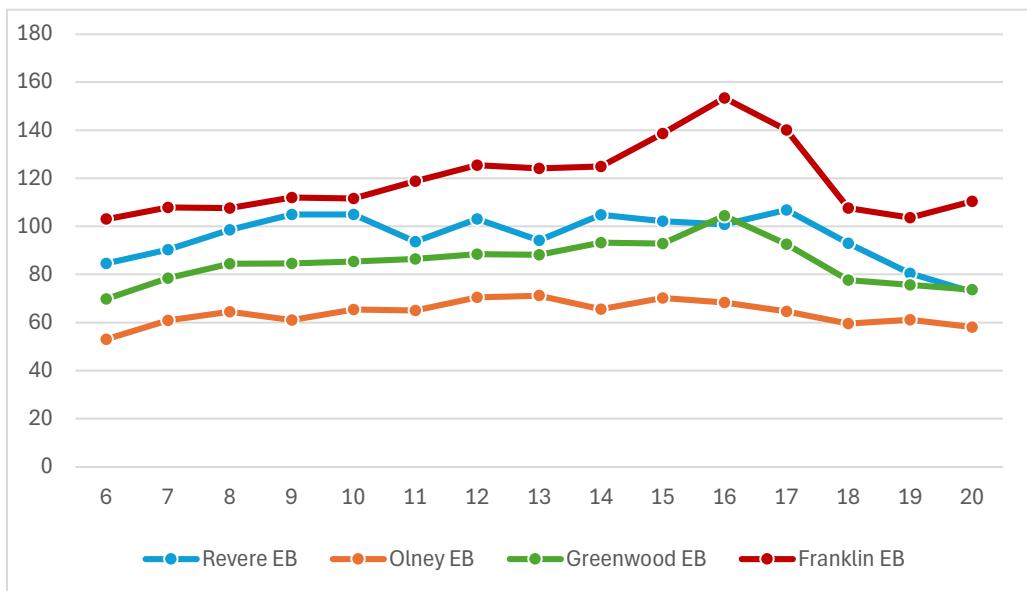
Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday 15-min Traffic	Sat	Sun	Average Week 15-min Traffic	Average Week Profile
	14 May 24	14 May 24	15 May 24							
06:00 PM		124	136			130			130	
06:15 PM		104	102			103			103	
06:30 PM		110	111			111			111	
06:45 PM		88	109			99			99	
07:00 PM		81	75			78			78	
07:15 PM		71	72			72			72	
07:30 PM		65	78			72			72	
07:45 PM		64	64			64			64	
08:00 PM		56	80			68			68	
08:15 PM		54	51			53			53	
08:30 PM		51	39			45			45	
08:45 PM		44	41			43			43	
09:00 PM		42	67			55			55	
09:15 PM		35	36			36			36	
09:30 PM		36	29			33			33	
09:45 PM		17	24			21			21	
10:00 PM		28	28			28			28	
10:15 PM		20	18			19			19	
10:30 PM		18	15			17			17	
10:45 PM		15	11			13			13	
11:00 PM		15	14			15			15	
11:15 PM		6	8			7			7	
11:30 PM		10	14			12			12	
11:45 PM		6	7			7			7	
<b>Day Total</b>	7720	7921				7842			7842	
<b>% Weekday Average</b>	98.4%	101%								
<b>% Week Average</b>	98.4%	101%				100%				
<b>AM Peak 15-min Vol</b>	7:45 AM	7:45 AM				7:45 AM			7:45 AM	
	199	178				189			189	
<b>PM Peak 15-min Vol</b>	12:00 PM	12:45 PM				12:45 PM			12:45 PM	
	171	169				169			169	
<b>Comments:</b>										

Report generated on 5/22/2024 7:53 AM

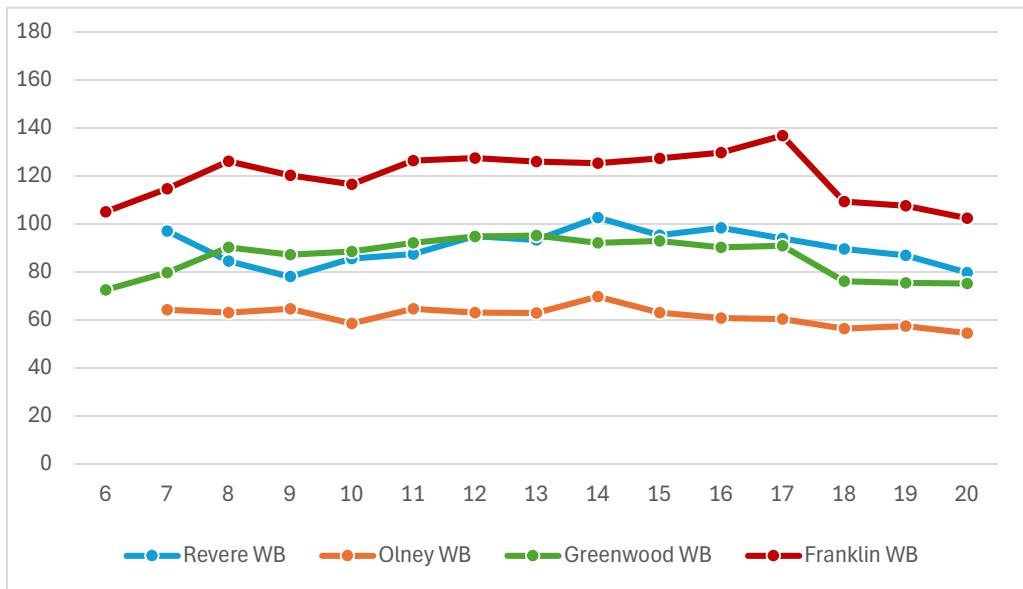
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>)

## Appendix E - 2 INRIX Travel Time Data

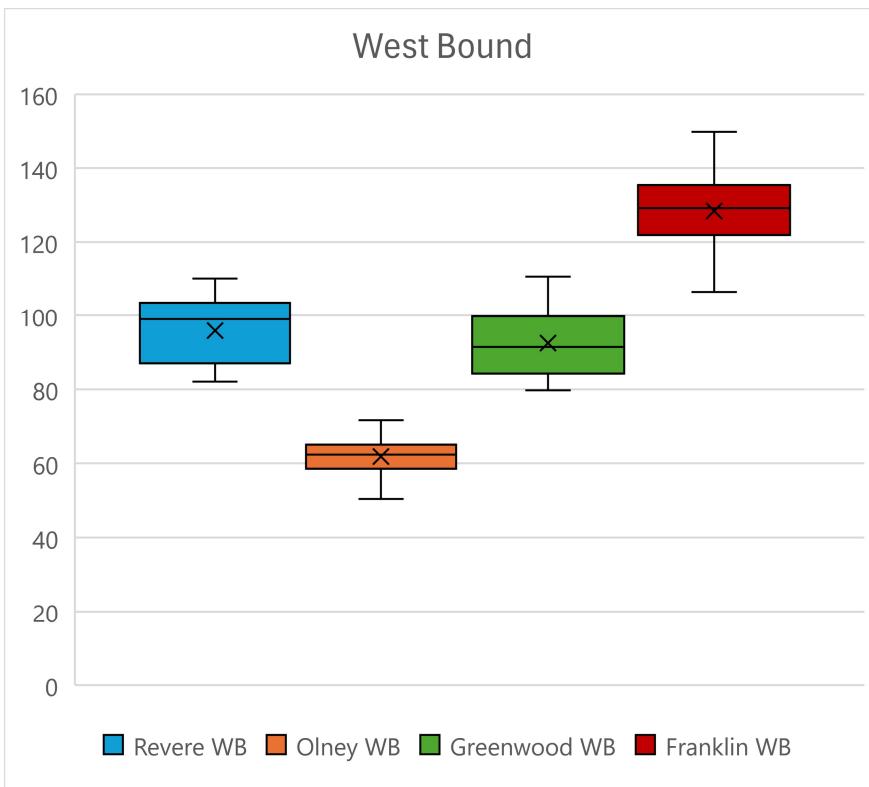
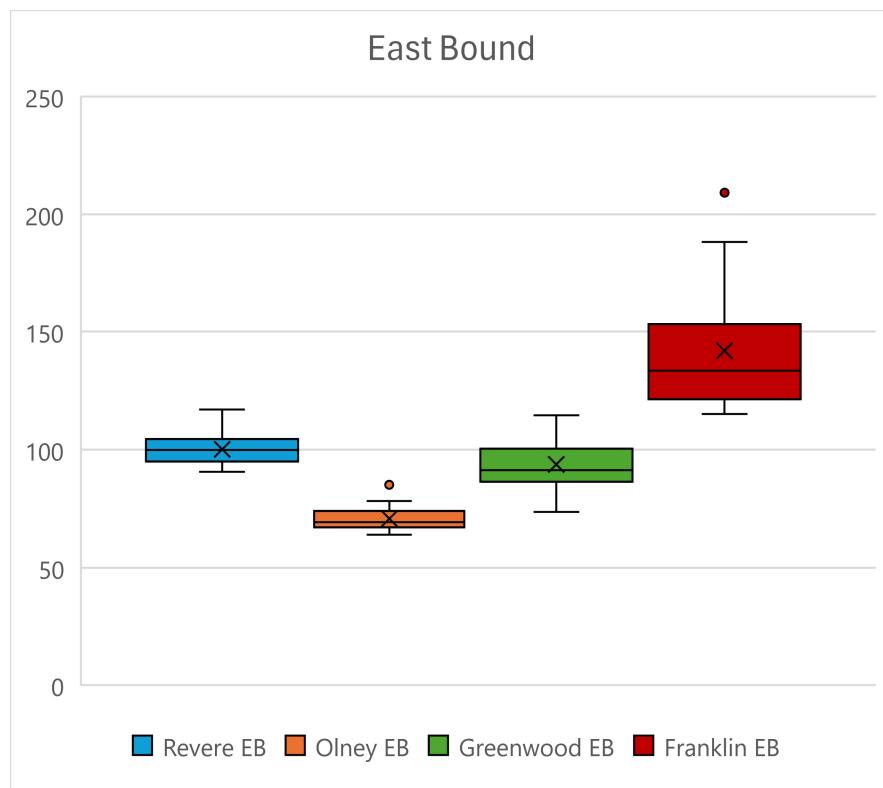
Average Travel Time EB				
Hour	Revere EB	Olney EB	Greenwood EB	Franklin EB
6	84.59	53.04	69.86	103.05
7	90.26	60.88	78.43	107.93
8	98.53	64.45	84.47	107.57
9	104.94	61.08	84.58	112.05
10	104.96	65.38	85.38	111.55
11	93.63	65.07	86.49	118.80
12	103.09	70.46	88.41	125.50
13	94.19	71.22	88.16	124.06
14	104.78	65.49	93.20	124.91
15	102.12	70.27	92.89	138.59
16	100.88	68.30	104.47	153.40
17	106.86	64.61	92.62	140.14
18	93.02	59.58	77.70	107.56
19	80.43	61.13	75.71	103.59
20	72.82	58.15	73.73	110.44



Average Travel Time WB				
Hour	Revere WB	Olney WB	Greenwood WB	Franklin WB
6			72.53	105.09
7	97.06	64.21	79.76	114.59
8	84.45	63.01	90.18	126.16
9	78.05	64.62	87.17	120.22
10	85.63	58.47	88.50	116.49
11	87.50	64.69	92.13	126.41
12	94.95	63.04	94.73	127.47
13	93.24	62.95	95.21	125.91
14	102.70	69.76	92.15	125.25
15	95.27	63.09	92.87	127.25
16	98.38	60.83	90.24	129.70
17	93.92	60.32	90.83	136.80
18	89.56	56.36	76.15	109.35
19	86.96	57.43	75.45	107.52
20	79.74	54.53	75.12	102.37

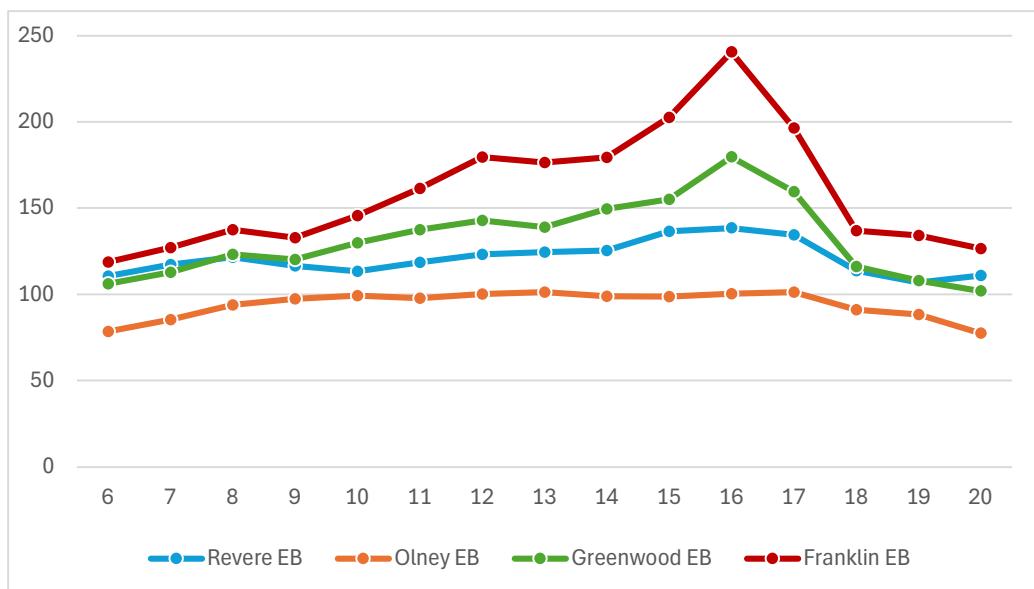


### Variance in Travel Time during the Peak Hour

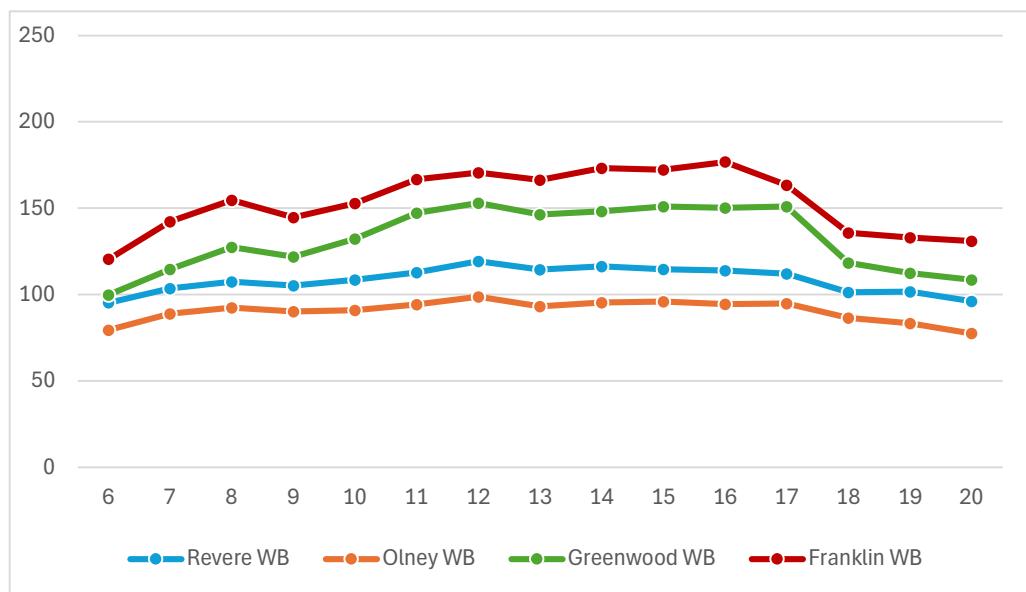


## Appendix E - 3 Google API Travel Time Data

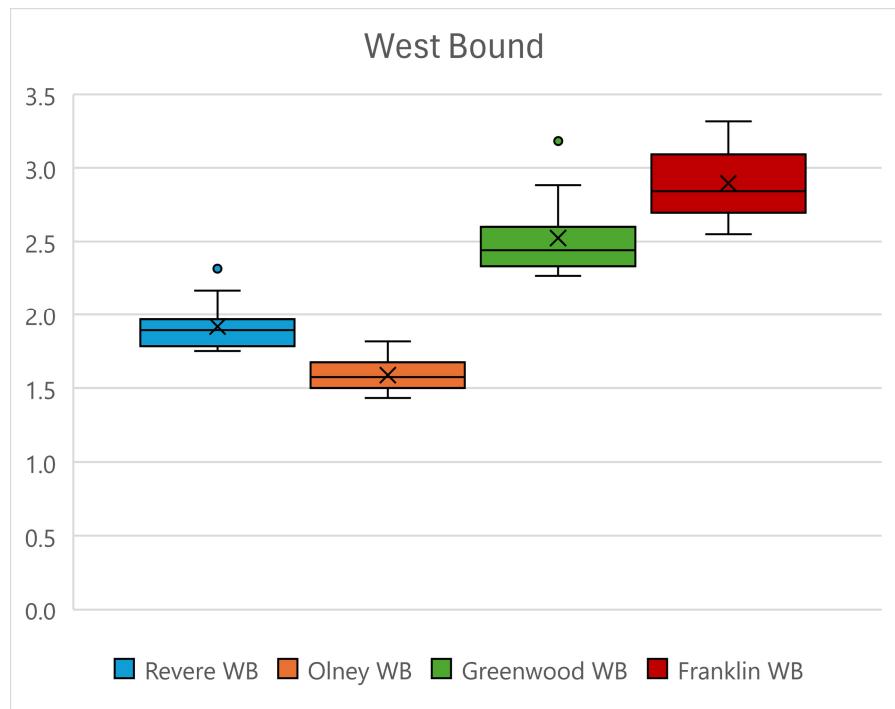
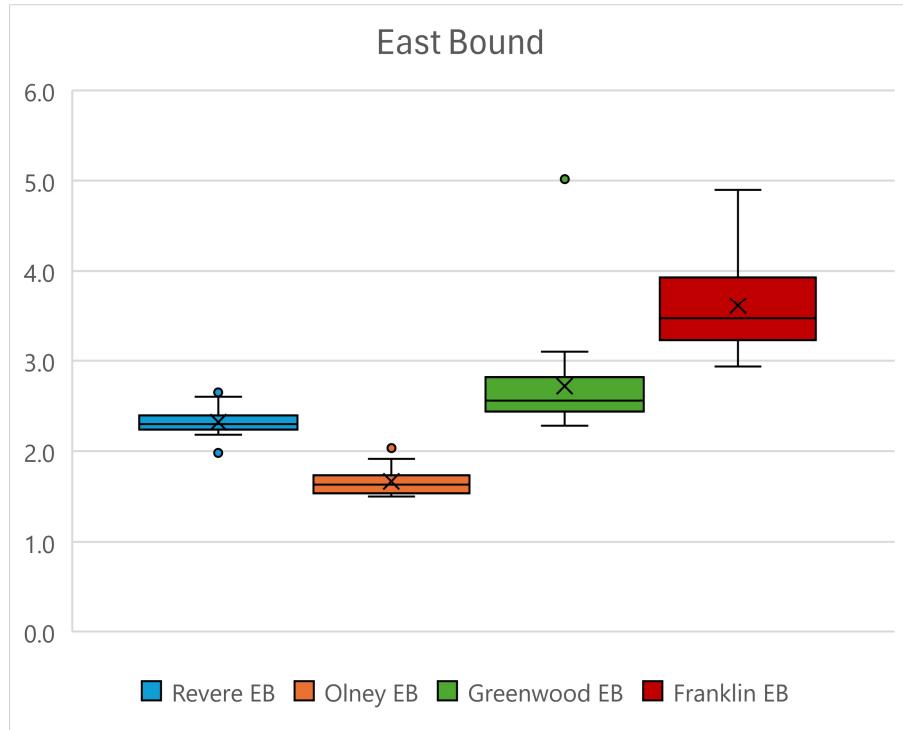
Average Travel Time EB				
Hour	Revere EB	Olney EB	Greenwood EB	Franklin EB
6	110.63	78.42	106.04	118.79
7	117.17	85.25	112.75	127.13
8	121.54	93.83	123.25	137.38
9	116.50	97.33	120.25	132.75
10	113.25	99.17	129.92	145.63
11	118.46	97.75	137.38	161.42
12	123.25	100.13	142.88	179.58
13	124.42	101.25	138.92	176.42
14	125.46	98.87	149.42	179.38
15	136.58	98.75	155.04	202.50
16	138.54	100.42	179.67	240.54
17	134.54	101.33	159.58	196.38
18	113.71	91.04	116.13	136.96
19	107.00	88.33	107.96	134.17
20	110.83	77.46	102.00	126.50



Average Travel Time WB				
Hour	Revere WB	Olney WB	Greenwood WB	Franklin WB
6	95.33	79.33	99.79	120.46
7	103.50	88.79	114.54	142.21
8	107.38	92.42	127.46	154.63
9	105.13	90.21	121.88	144.58
10	108.42	90.87	132.17	152.79
11	112.79	94.29	147.17	166.79
12	119.33	98.75	153.04	170.67
13	114.38	93.04	146.29	166.38
14	116.21	95.42	148.17	173.17
15	114.67	95.83	150.92	172.21
16	113.83	94.33	150.17	176.83
17	112.04	94.83	150.88	163.33
18	101.21	86.42	118.38	135.75
19	101.58	83.33	112.38	132.96
20	96.04	77.50	108.46	130.88

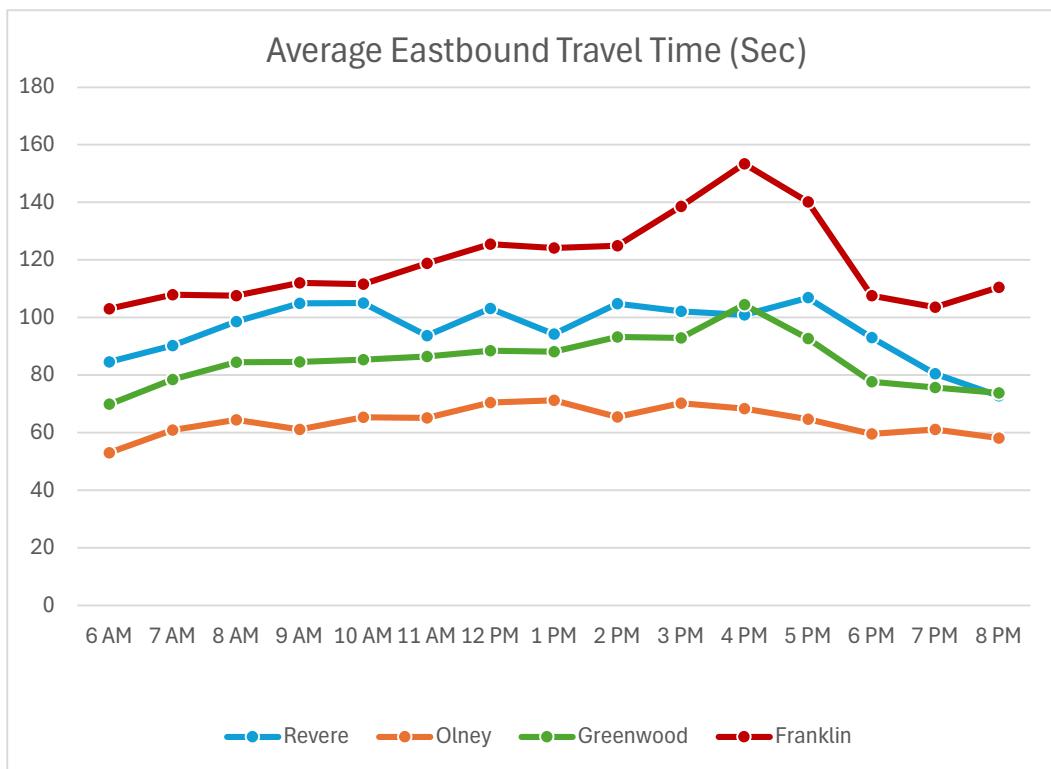


### Varience in Travel Time During the Peak Hour



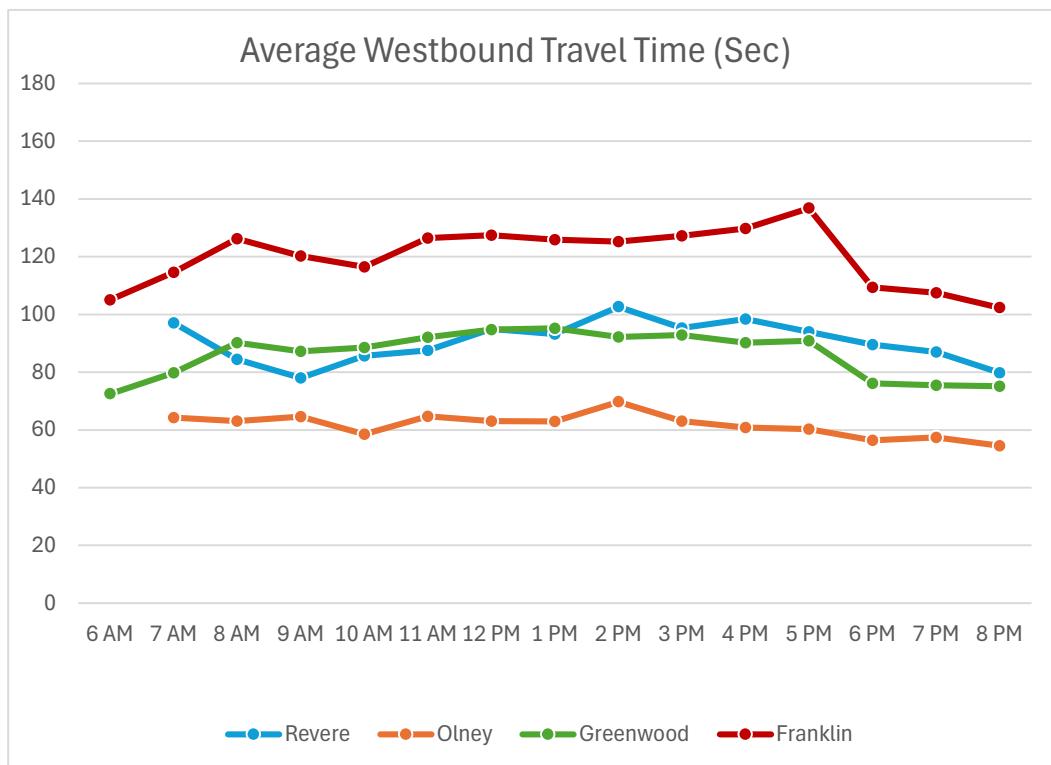
## Appendix F INRIX Travel Time Pre-Construction

Average Eastbound Travel Time (Sec)				
Hour	Revere	Olney	Greenwood	Franklin
6:00 AM	85	53	70	103
7:00 AM	90	61	78	108
8:00 AM	99	64	84	108
9:00 AM	105	61	85	112
10:00 AM	105	65	85	112
11:00 AM	94	65	86	119
12:00 PM	103	70	88	125
1:00 PM	94	71	88	124
2:00 PM	105	65	93	125
3:00 PM	102	70	93	139
4:00 PM	101	68	104	153
5:00 PM	107	65	93	140
6:00 PM	93	60	78	108
7:00 PM	80	61	76	104
8:00 PM	73	58	74	110



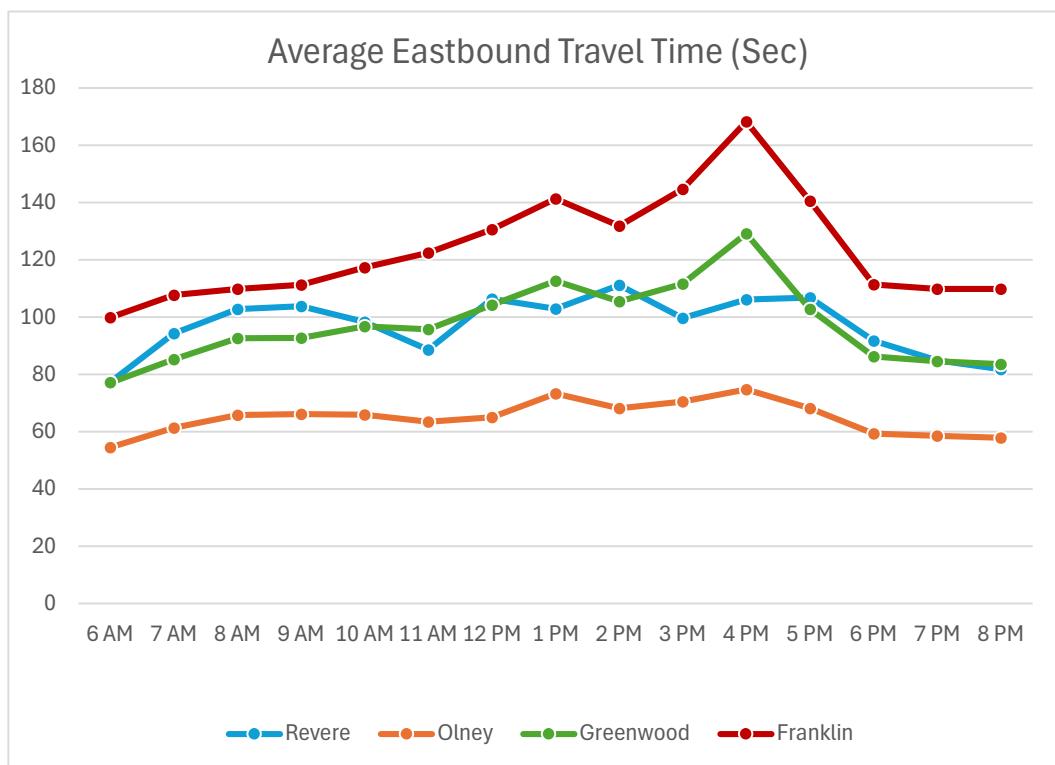
Average Westbound Travel Time (Sec)				
Hour	Revere	Olney	Greenwood	Franklin
6:00 AM			73	105
7:00 AM	97	64	80	115
8:00 AM	84	63	90	126
9:00 AM	78	65	87	120
10:00 AM	86	58	89	116
11:00 AM	87	65	92	126
12:00 PM	95	63	95	127
1:00 PM	93	63	95	126
2:00 PM	103	70	92	125
3:00 PM	95	63	93	127
4:00 PM	98	61	90	130
5:00 PM	94	60	91	137
6:00 PM	90	56	76	109
7:00 PM	87	57	75	108
8:00 PM	80	55	75	102

\*Empty cell denotes no data of good quality is available



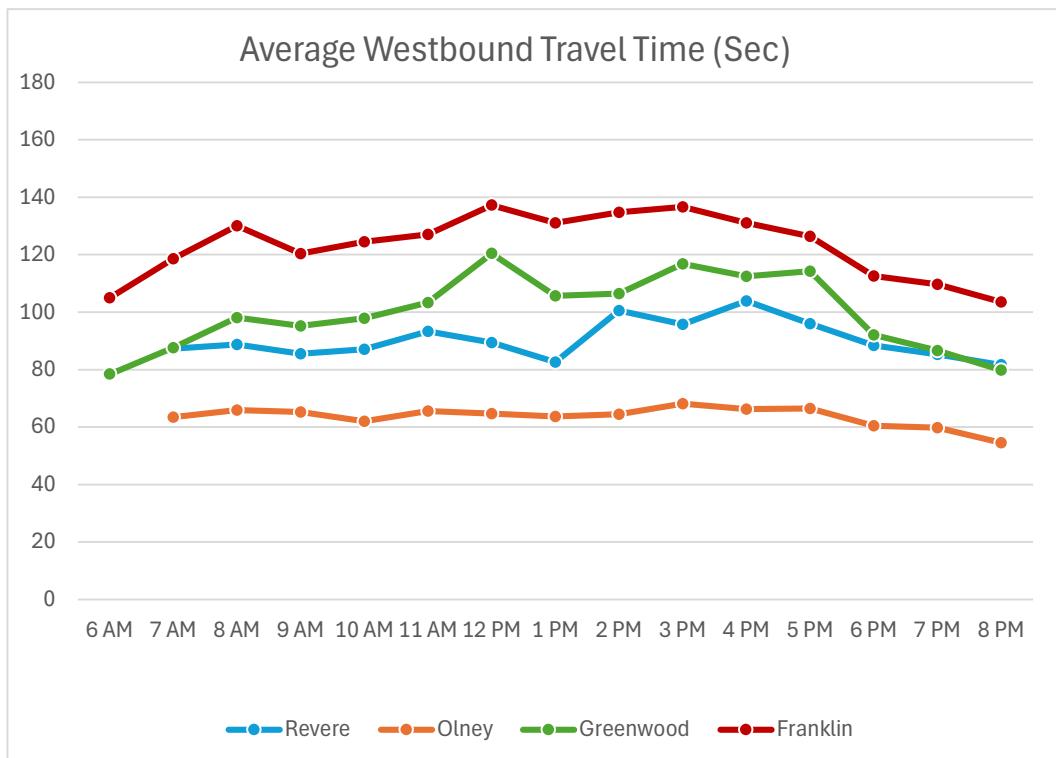
# Appendix G INRIX Travel Time Post-Construction (September 2024)

Average Eastbound Travel Time (Sec)				
Hour	Revere	Olney	Greenwood	Franklin
6:00 AM	77	55	77	100
7:00 AM	94	61	85	108
8:00 AM	103	66	93	110
9:00 AM	104	66	93	111
10:00 AM	98	66	97	117
11:00 AM	89	63	96	122
12:00 PM	106	65	104	131
1:00 PM	103	73	113	141
2:00 PM	111	68	105	132
3:00 PM	100	70	112	145
4:00 PM	106	75	129	168
5:00 PM	107	68	103	140
6:00 PM	92	59	86	111
7:00 PM	85	58	85	110
8:00 PM	82	58	83	110



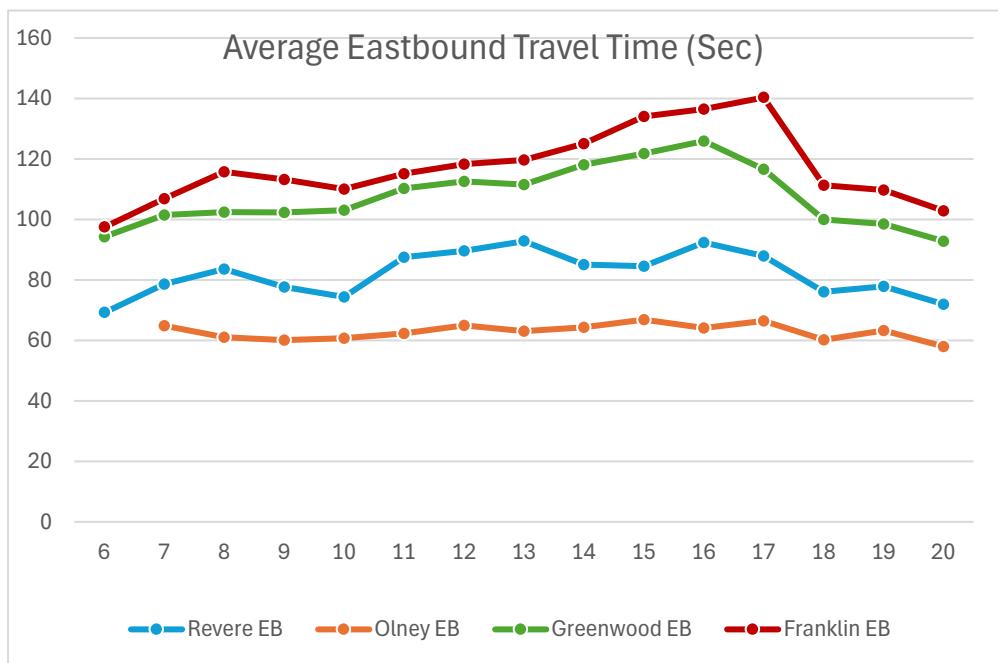
Average Westbound Travel Time (Sec)				
Hour	Revere	Olney	Greenwood	Franklin
6:00 AM			78	105
7:00 AM	87	63	88	119
8:00 AM	89	66	98	130
9:00 AM	86	65	95	120
10:00 AM	87	62	98	124
11:00 AM	93	66	103	127
12:00 PM	89	65	120	137
1:00 PM	83	64	106	131
2:00 PM	101	64	106	135
3:00 PM	96	68	117	137
4:00 PM	104	66	112	131
5:00 PM	96	67	114	126
6:00 PM	88	60	92	113
7:00 PM	85	60	87	110
8:00 PM	82	55	80	104

\*Empty cell denotes no data of good quality is available

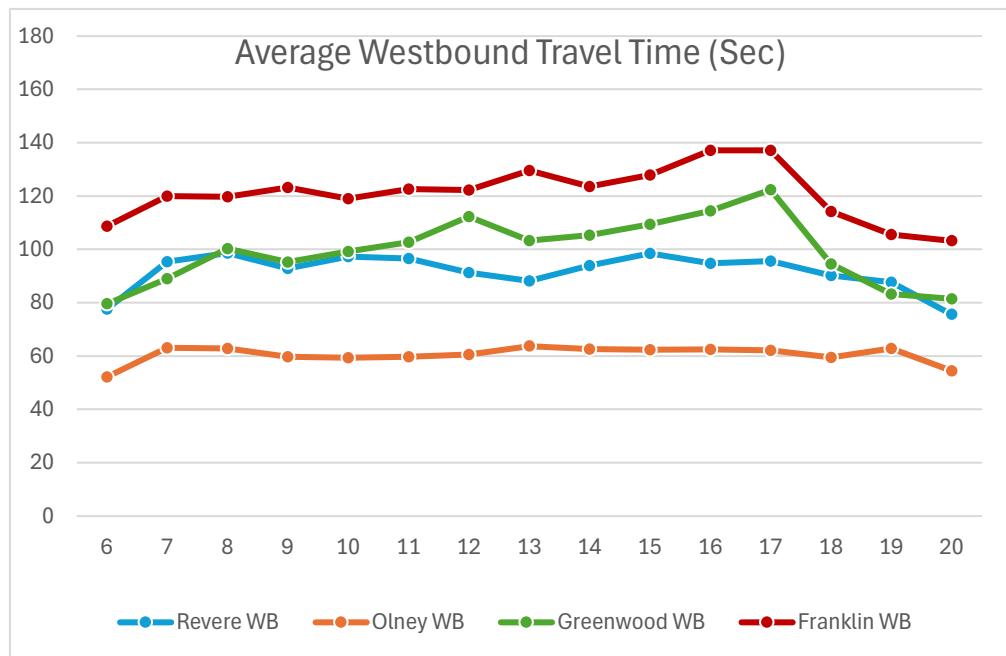


# Appendix H INRIX Travel Time Post-Construction (January 2025)

Average Travel Time EB (Sec)				
Hour	Revere EB	Olney EB	Greenwood EB	Franklin EB
6	69		94	98
7	79	65	101	107
8	84	61	102	116
9	78	60	102	113
10	74	61	103	110
11	88	62	110	115
12	90	65	113	118
13	93	63	111	120
14	85	64	118	125
15	84	67	122	134
16	92	64	126	136
17	88	66	117	140
18	76	60	100	111
19	78	63	98	110
20	72	58	93	103

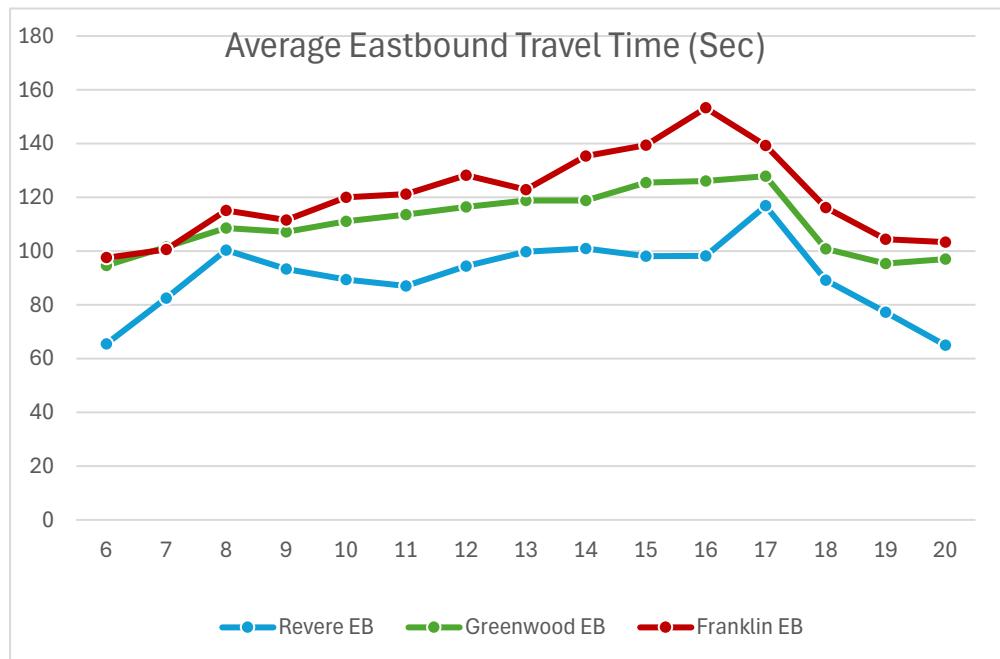


Average Travel Time WB (Sec)				
Hour	Revere WB	Olney WB	Greenwood WB	Franklin WB
6	78	52	80	109
7	95	63	89	120
8	99	63	100	120
9	93	60	95	123
10	97	59	99	119
11	97	60	103	123
12	91	61	112	122
13	88	64	103	130
14	94	63	105	124
15	98	62	109	128
16	95	62	114	137
17	96	62	122	137
18	90	59	95	114
19	88	63	83	106
20	76	54	81	103

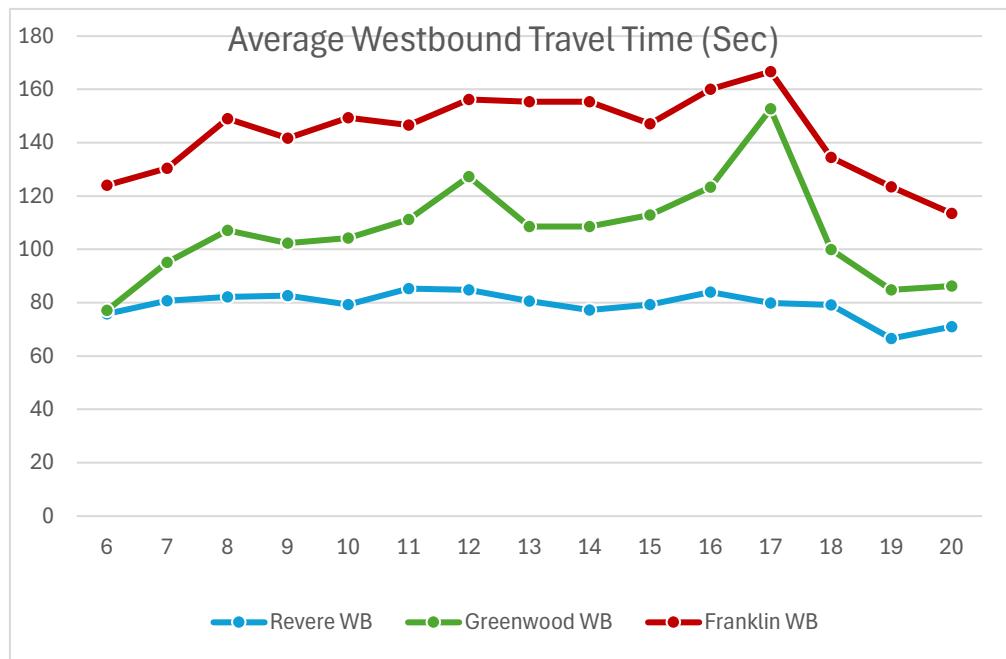


## Appendix I INRIX Travel Time Post-Construction (June 2025)

Average Travel Time EB (Sec)				
Hour	Revere EB	Olney EB	Greenwood EB	Franklin EB
6	65	-	95	98
7	82	-	102	101
8	100	-	109	115
9	93	-	107	112
10	89	-	111	120
11	87	-	114	121
12	94	-	116	128
13	100	-	119	123
14	101	-	119	135
15	98	-	125	139
16	98	-	126	153
17	117	-	128	139
18	89	-	101	116
19	77	-	95	104
20	65	-	97	103

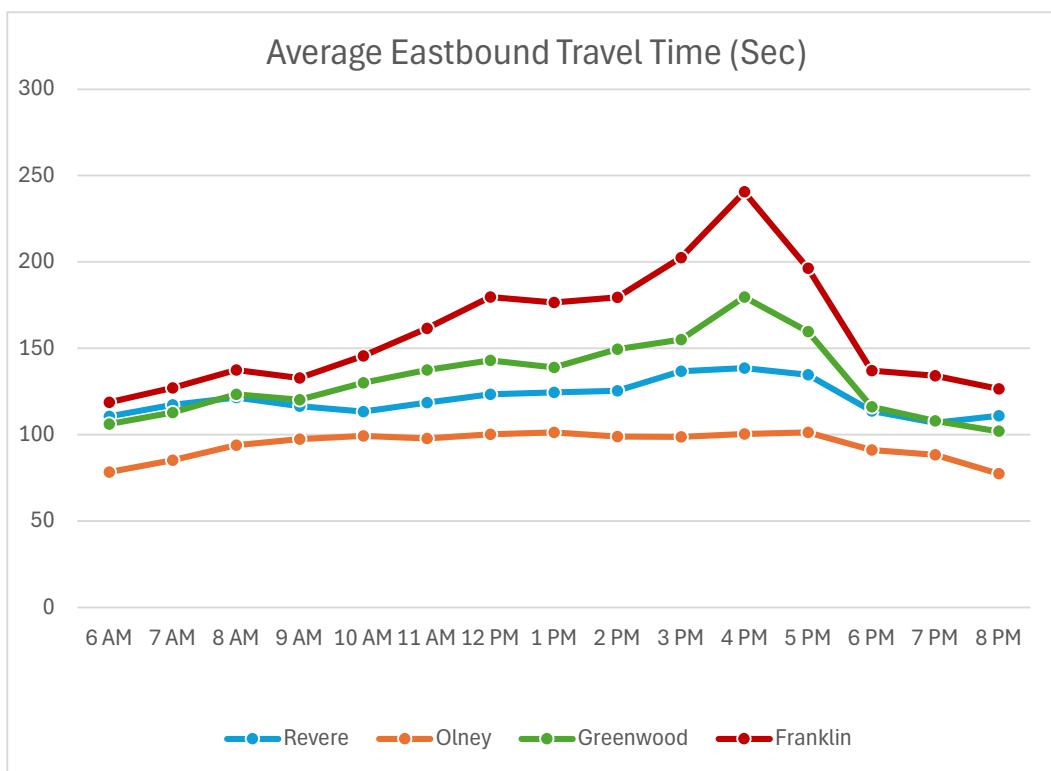


Average Travel Time WB (Sec)				
Hour	Revere WB	Olney WB	Greenwood WB	Franklin WB
6	76	-	77	124
7	81	-	95	130
8	82	-	107	149
9	83	-	102	142
10	79	-	104	149
11	85	-	111	147
12	85	-	127	156
13	81	-	109	155
14	77	-	109	155
15	79	-	113	147
16	84	-	123	160
17	80	-	153	167
18	79	-	100	134
19	67	-	85	123
20	71	-	86	114

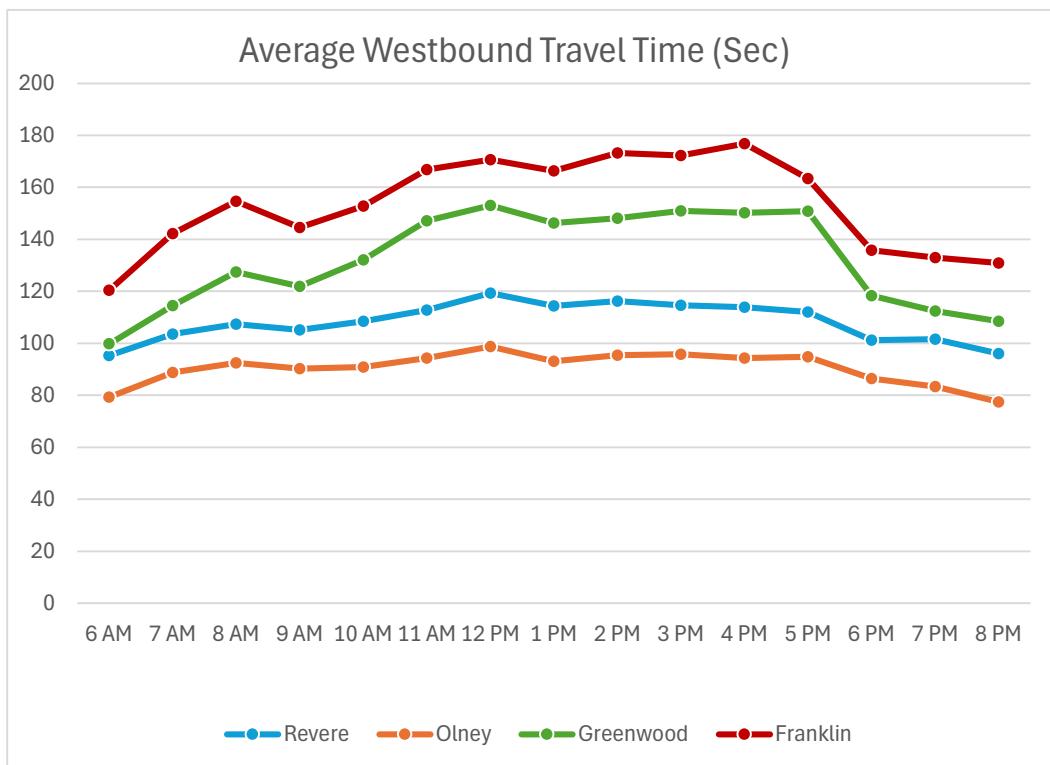


## Appendix J Google API Travel Time Pre-Construction

Average Eastbound Travel Time (Sec)				
Hour	Revere	Olney	Greenwood	Franklin
6:00 AM	111	78	106	119
7:00 AM	117	85	113	127
8:00 AM	122	94	123	137
9:00 AM	117	97	120	133
10:00 AM	113	99	130	146
11:00 AM	118	98	137	161
12:00 PM	123	100	143	180
1:00 PM	124	101	139	176
2:00 PM	125	99	149	179
3:00 PM	137	99	155	203
4:00 PM	139	100	180	241
5:00 PM	135	101	160	196
6:00 PM	114	91	116	137
7:00 PM	107	88	108	134
8:00 PM	111	77	102	127

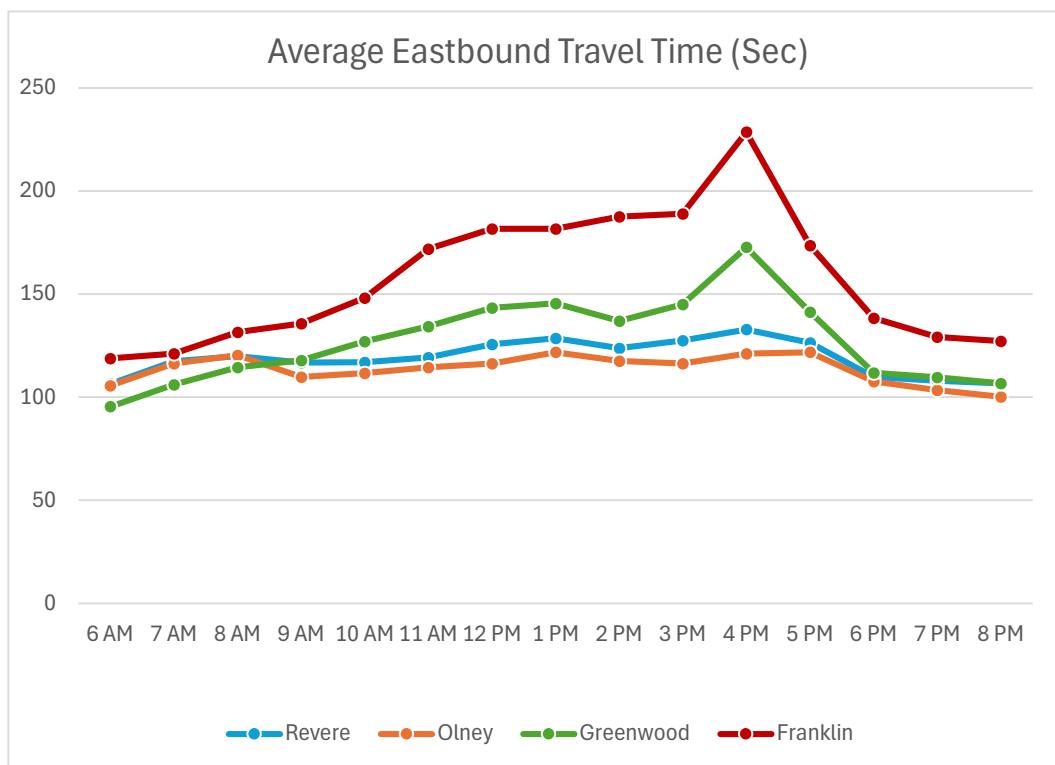


Average Westbound Travel Time (Sec)				
Hour	Revere	Olney	Greenwood	Franklin
6:00 AM	95	79	100	120
7:00 AM	104	89	115	142
8:00 AM	107	92	127	155
9:00 AM	105	90	122	145
10:00 AM	108	91	132	153
11:00 AM	113	94	147	167
12:00 PM	119	99	153	171
1:00 PM	114	93	146	166
2:00 PM	116	95	148	173
3:00 PM	115	96	151	172
4:00 PM	114	94	150	177
5:00 PM	112	95	151	163
6:00 PM	101	86	118	136
7:00 PM	102	83	112	133
8:00 PM	96	77	108	131

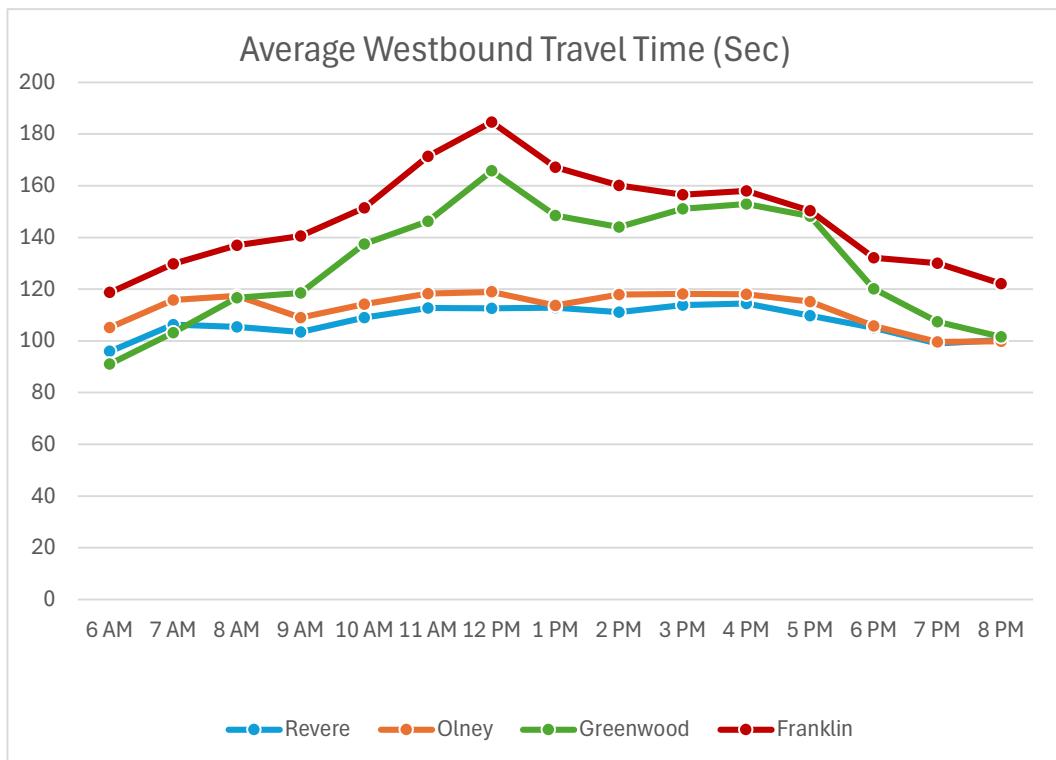


## Appendix K Google API Travel Time Post-Construction (September 2024)

Average Eastbound Travel Time (Sec)				
Hour	Revere	Olney	Greenwood	Franklin
6:00 AM	107	106	95	119
7:00 AM	117	116	106	121
8:00 AM	120	120	115	132
9:00 AM	117	110	118	136
10:00 AM	117	112	127	148
11:00 AM	119	115	134	172
12:00 PM	126	116	143	182
1:00 PM	129	122	146	182
2:00 PM	124	118	137	188
3:00 PM	128	116	145	189
4:00 PM	133	121	173	229
5:00 PM	126	122	141	174
6:00 PM	110	108	112	138
7:00 PM	108	104	110	129
8:00 PM	107	100	107	127

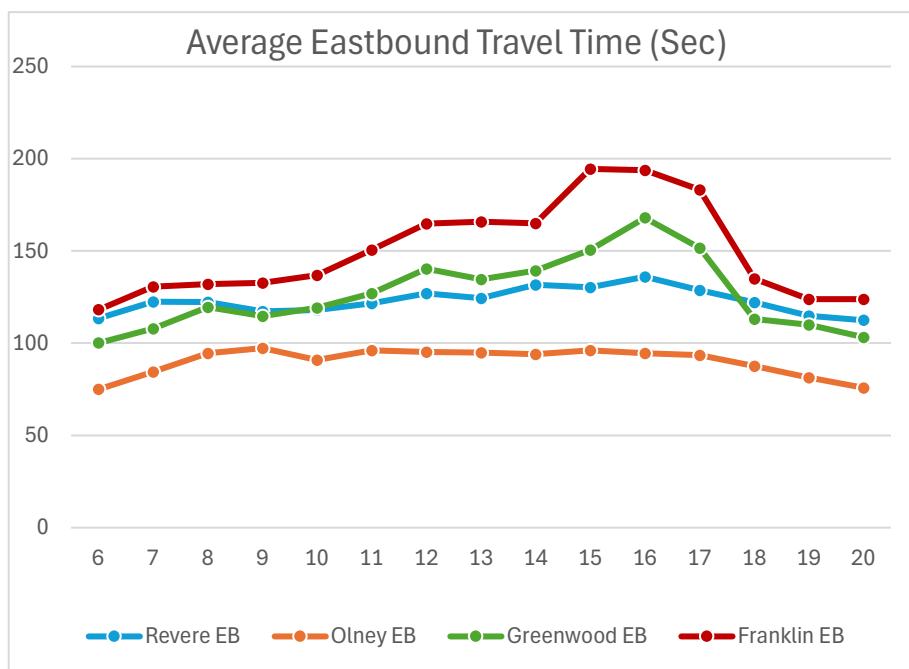


Average Westbound Travel Time (Sec)				
Hour	Revere	Olney	Greenwood	Franklin
6:00 AM	96	105	91	119
7:00 AM	106	116	103	130
8:00 AM	105	117	117	137
9:00 AM	103	109	119	141
10:00 AM	109	114	138	152
11:00 AM	113	118	146	171
12:00 PM	113	119	166	185
1:00 PM	113	114	149	167
2:00 PM	111	118	144	160
3:00 PM	114	118	151	157
4:00 PM	115	118	153	158
5:00 PM	110	115	148	150
6:00 PM	105	106	120	132
7:00 PM	99	100	107	130
8:00 PM	100	100	102	122

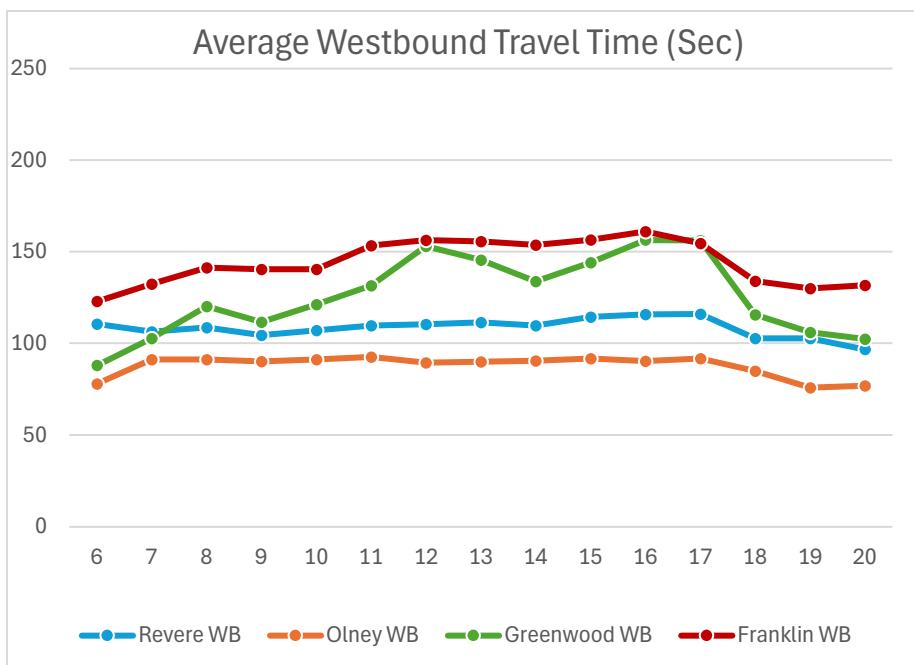


## Appendix L Google API Travel Time Post-Construction (January 2025)

Average Travel Time Eastbound (Sec)				
Hour	Revere EB	Olney EB	Greenwood EB	Franklin EB
6	113	75		100
7	123	84		108
8	122	95		119
9	117	97		115
10	118	91		119
11	122	96		127
12	127	95		140
13	124	95		135
14	132	94		139
15	130	96		151
16	136	95		168
17	129	93		152
18	122	88		113
19	115	81		110
20	113	76		103
				124

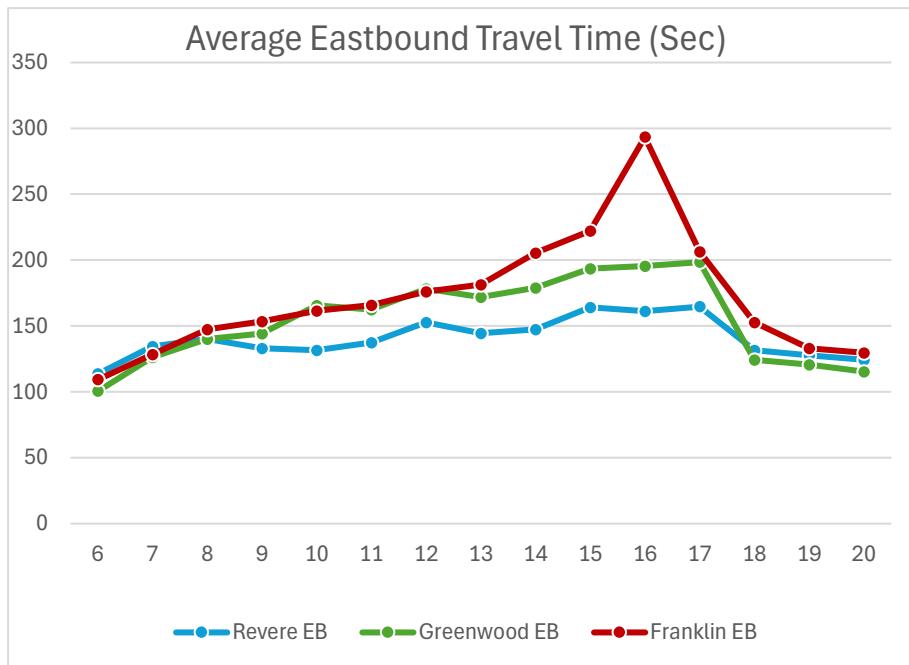


Average Travel Time Westbound (Sec)				
Hour	Revere WB	Olney WB	Greenwood WB	Franklin WB
6	111	78		88
7	106	91		103
8	109	91		120
9	105	90		112
10	107	91		121
11	110	93		132
12	110	89		153
13	111	90		146
14	110	90		134
15	114	92		144
16	116	90		156
17	116	92		156
18	103	85		116
19	103	76		106
20	97	77		130

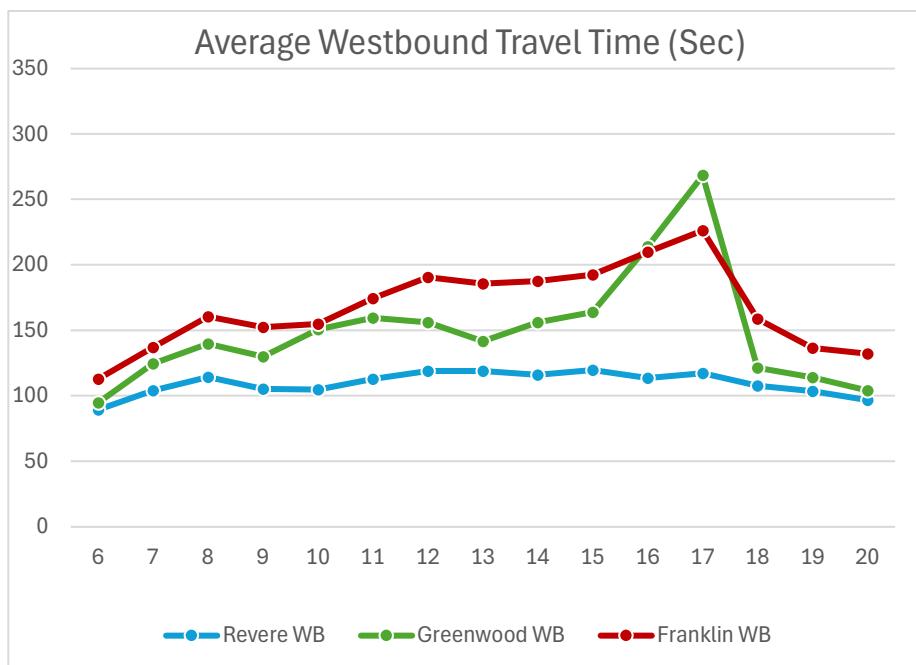


## Appendix M Google API Travel Time Post-Construction (June 2025)

Average Travel Time Eastbound (Sec)				
Hour	Revere EB	Olney EB	Greenwood EB	Franklin EB
6	114	-	101	109
7	135	-	126	128
8	140	-	140	147
9	133	-	144	153
10	132	-	166	161
11	137	-	163	166
12	153	-	178	176
13	144	-	172	181
14	147	-	179	206
15	164	-	194	222
16	161	-	196	294
17	165	-	199	206
18	132	-	124	153
19	128	-	121	133
20	124	-	115	130



Average Travel Time Westbound (Sec)				
Hour	Revere WB	Olney WB	Greenwood WB	Franklin WB
6	89	-	95	113
7	104	-	124	137
8	114	-	140	161
9	105	-	130	152
10	105	-	151	155
11	113	-	159	174
12	119	-	156	190
13	119	-	142	186
14	116	-	156	188
15	120	-	164	192
16	114	-	214	210
17	117	-	268	226
18	108	-	121	159
19	104	-	114	137
20	97	-	104	132



## Appendix N BPD Incident Report Data



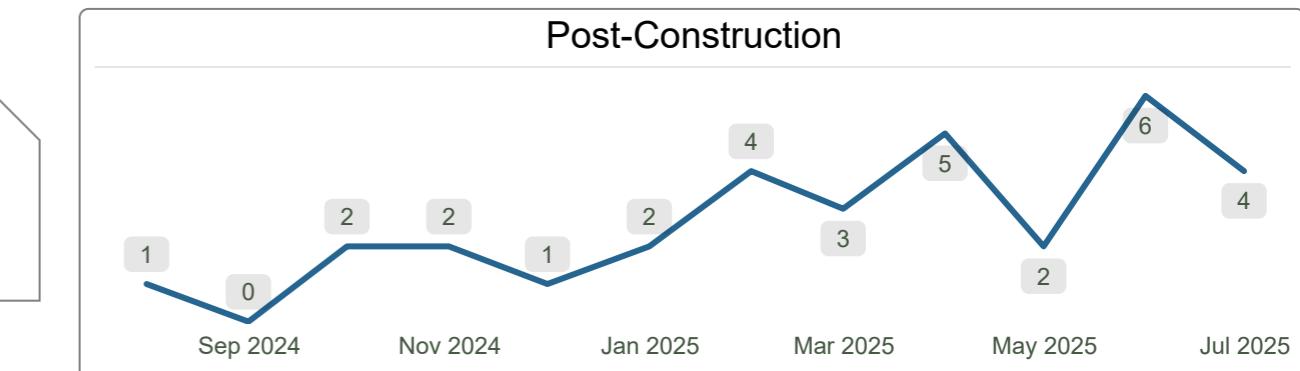
# BPD DMV Crash Reports - Greenwood Ave Quick Build



17  
Pre Const.

49  
Total Crashes

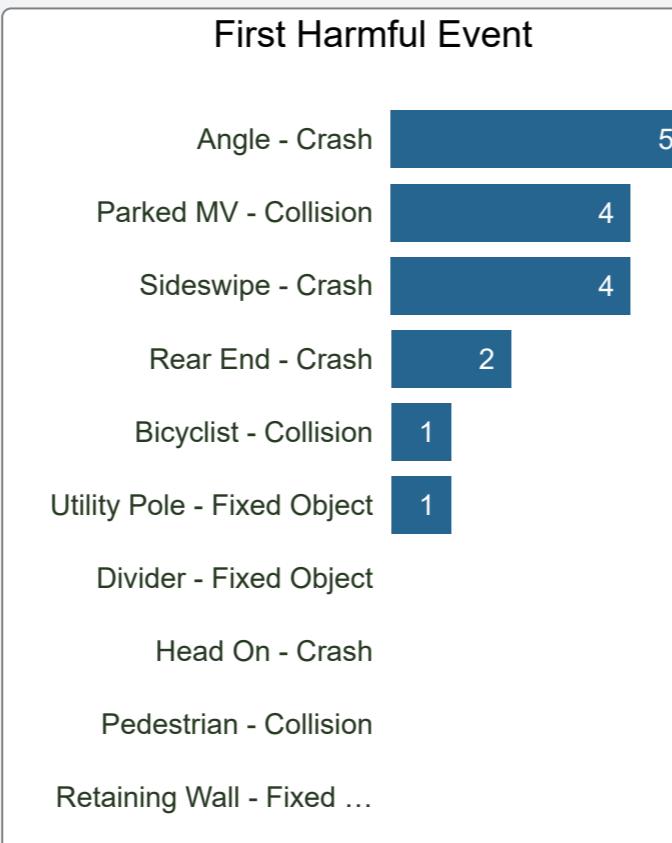
32  
Post Const.



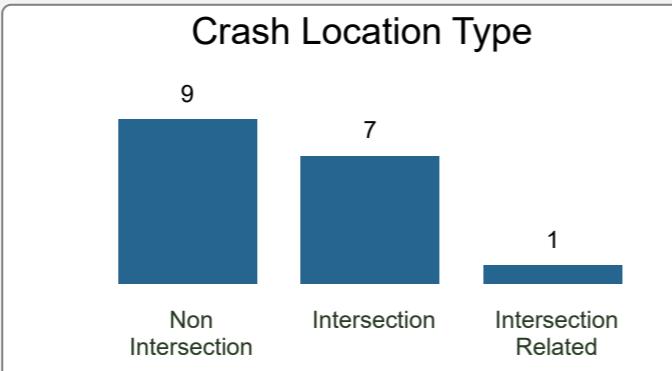
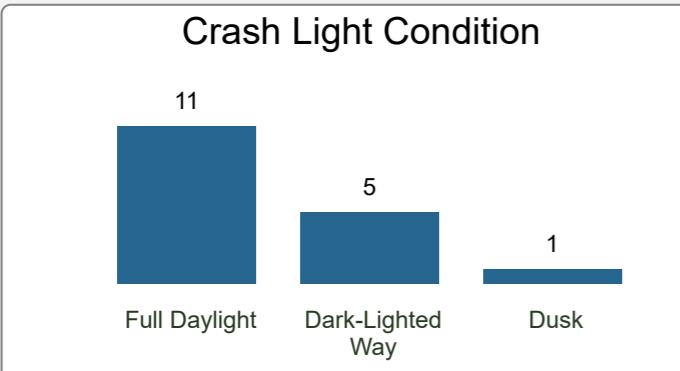
## Pre-Construction

8.17.2023 - 8.1.2024

Accident Address	Count
NE 3RD ST / NE GREENWOOD AVE	5
NW HILL ST / NW GREENWOOD AVE	4
NW HARRIMAN ST / NW GREENWOOD AVE	3
NE 1ST ST / NE GREENWOOD AVE	2
NE 2ND ST / NE GREENWOOD AVE	2
NW WALL ST / NW GREENWOOD AVE	1

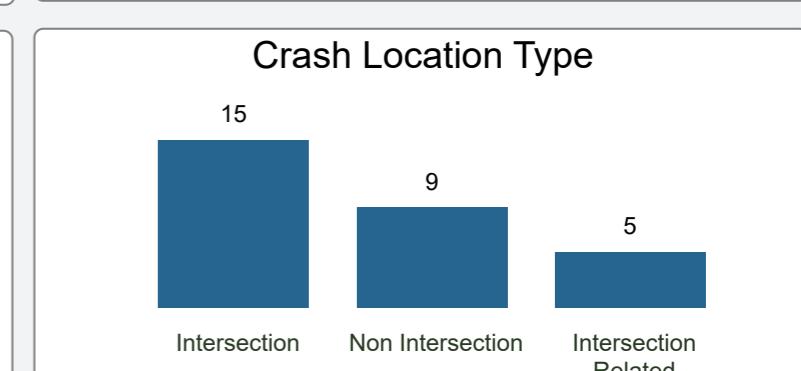
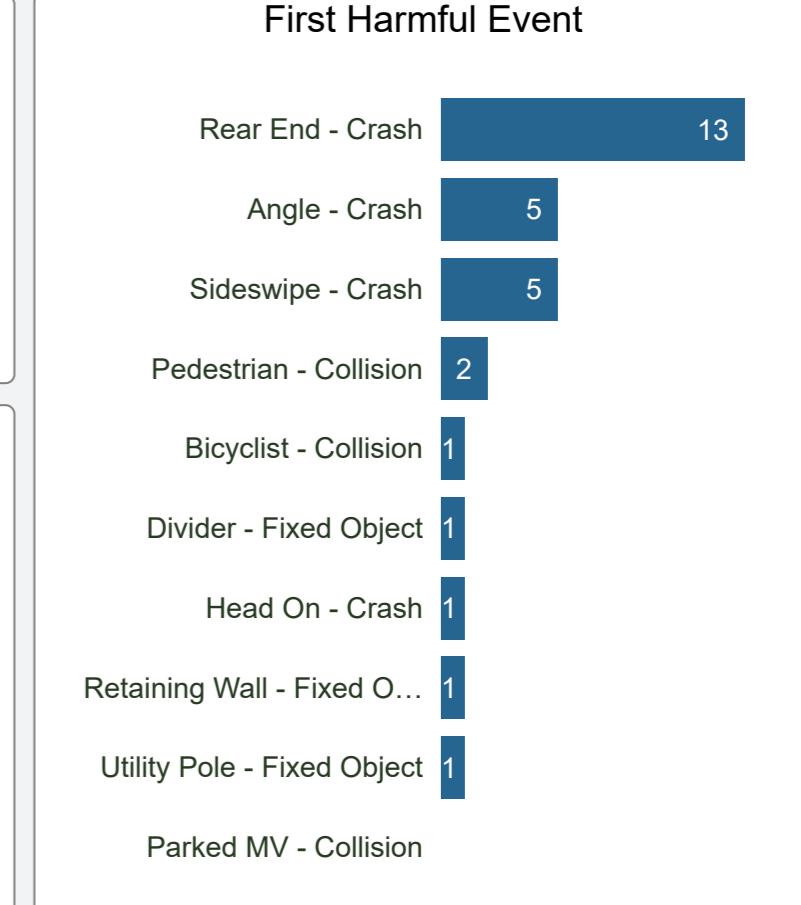
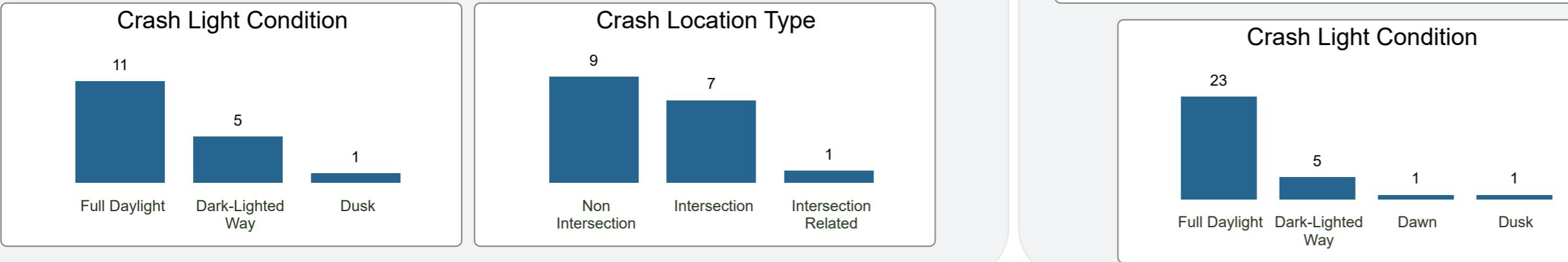


Accident Unit Type	Blank	Complaint of Pain	None of Pain	Total
Driver	3	1	16	20
Bicyclist	1	1		2
Parked Vehicle	1			1
Property Damage	1			1
<b>Total</b>	<b>6</b>	<b>2</b>	<b>16</b>	<b>24</b>



Accident Address	Count
NE 3RD ST / NE GREENWOOD AVE	12
NW WALL ST / NW GREENWOOD AVE	7
NW HILL ST / NW GREENWOOD AVE	5
NE 2ND ST / NE GREENWOOD AVE	3
NE 1ST ST / NE GREENWOOD AVE	2
NW HARRIMAN ST / NW GREENWOOD AVE	2
NW BOND ST / NW GREENWOOD AVE	1

Accident Unit Type	Blank	Complaint of Pain	None of Pain	Visible Injury	Total
Driver	3	2	27	2	34
Property Damage	3				3
Bicyclist	1			1	2
Pedestrian	2				2
Parked Vehicle			1		1
<b>Total</b>	<b>9</b>	<b>2</b>	<b>28</b>	<b>3</b>	<b>42</b>



crash date	Time of Crash	n/s street	E/w street	on	Dist from Int	Surface Condition	crash type	crash type detail	damage 1st	damage 2nd	injury	pdo	ped	bike	car	parked car	veh towed	ticket (warning or tkt)	other note
10/19/2023	3:28 PM	ne 1st st	ne greenwood ave	greenwood	near	dry	angle	intersection	front driver	front pass	x	yes	x	x	2	x	yes both	failure to obey traffic control device	see case report
10/23/2023	12:07 PM	ne 1st st	ne greenwood ave	greenwood	within	dry	rear end	non intersection	front	x	x	yes	x	x	2	x	yes	following too close	no details
11/17/2023	10:44 PM	nw hill st	nw greenwood ave	greenwood	within 25 ft	wet	sidewipe		rear pass	front	x	yes	x	x	2	x	x	x	straight-straight; see case rpt
11/24/2023	8:27 PM	nw hariman st	nw greenwood ave	eb greenwood	within 30 ft	dry	sidewipe	parked	front pass	rear driver	x	yes	x	x	2	parked	yes	cited	v1 eb greenwood approaching hariman reached for something in passenger side and veered into v2 parked on south shoulder then hit building
1/14/2024	2:44 AM	nw hariman st	nw greenwood ave	eb greenwood ave	near	icy	run off road	head on utility pole	front	utility pole	x	yes	x	x	1	x	x		d1 eb on greenwood lost control passing thru bond, snow and ice, over corrected, hit power pole head on, minor damage
1/26/2024	4:58 PM	nw hariman st	nw greenwood ave	harriman	within	wet	angle	right angle failed to stop sidestreet	front pass	front	x	yes	x	x	2	x	x	failure to obey	d1 stopped on sh hariman north of greenwood wb cars left space so she crossed but didn't see eb vehicle; d2 sah vehicle crossing but was unable to stop
1/30/2024	1:39 PM	ne 3rd st	ne greenwood ave	nb 3rd st	near	dry	sidewipe		mid driv	mid pass	x	yes	x	x	2	x	x	none	d1 stopped in right side nb lane on 3rd turning right ont greenwood; d2 passed v1 on left and clipped drivers side mirror causing damage; lane line covered in gravel but couldn't determine who didn't maintain lane
2/12/2024	3:45 PM	nw hill st	nw greenwood ave	greenwood	near	dry	sidewipe		mid pass	x	yes	x	x	2	x	x		hit and run; see case rpt	
3/15/2024	12:02 AM	ne 3rd st	ne greenwood ave	3rd	within	dry	rear end	stopped	front	rear	possible	yes	x	x	2	x	yes	dui arrest	see case rpt;
4/19/2024	7:14 PM	nw hill st	nw greenwood ave	greenwood	near	dry	sidewipe	parked	unk	mid driver	x	yes	x	x	2	parked	x	unk	hit and run; unk see case rpt
6/7/2024	2:24 PM	ne 2nd st	ne greenwood ave	eb greenwood	within	dry	angle	left across 2 lanes; 1 stopped-hit by 2nd lane	front pass	front	x	yes	x	x	2	x	x	dangerous left turn	d1 waiting to turn left from left lane of eb greenwood into parking lot; d2 in left wb lane stopped and waved across when collided with d2
6/18/2024	6:20 PM	ne 3rd st	ne greenwood ave	sb 3rd	near	dry	sidewipe	lane change left	front	middle pass	x	yes	x	x	4	x	x	careless driving	d1 exited left lane left to left turn only lane across solid white line; d2 was 2b on 3rd in the left turn lane causing d2 to hit d1 and pushed d2 right do d3 and d4
6/21/2024	7:45 AM	ne 2nd st	ne greenwood ave	eb greenwood	near 40 ft	dry	sidewipe	parked	x	x	x	yes	x	x	2	parked	x	none	d1 traveling eb greenwood at slow speed clipped mirror of v2 parked - ford truck with large turning mirrors not folded inward; no damage
7/8/2024	10:08 PM	nw hill st	ne greenwood ave	eb greenwood	near	dry	rear end	parked	x	x	yes-transported	x	x	bike injury	1	yes	x	none	witness saw bicyclist riding eb run into back of a parked car, cyclist had no recollection of collision,
7/17/2024	4:48 PM	ne 3rd st	ne greenwood ave	eb greenwood	within	dry	angle	right turn-wrong way riding	x	rear pass	yes	x	x	bike -inj poss	1	x	x	cyclist cited for improper lane use (nb in sb bike lane)	d2 eb on greenwood and stopped at signal then turned right to sb 3rd; did not see cyclist turn in the sb bike lane, bicyclist not wearing helmet hit head on pavement, cyclist cited for improper lane use
7/21/2024	5:15 PM	ne 3rd st	greenwood	greenwood	within	wet	angle	signal	front	rear driv	x	yes	x	x	2	x	x	unk	on duty collision see report
7/29/2024	2:55 PM	nw wall st	nw newport st	sb wall	within 75 ft	dry	angle	merging	front driv	rear pass	x	yes	x	x	2	x	x	none	d1 entering sb wall b lane from parking when collided with d2 who just made left turn from parking lot and signaled to enter r lane ; conci entered lane at same time
8/31/2024	9:19 PM	nw wall st	nw greenwood ave	sb wall	within	dry	rear end	signal - rear end	front	rear driv	x	yes	x	x	2	x	x	follow too close	v2 stopped at red sb on wall at greenwood, v1 saw red light but foot slipped off brake and hit gas causing rear end
10/14/2024	12:38 PM	ne 3rd st	ne greenwood ave	eb greenwood	within	dry	angle	merging	front driv	front pass	x	yes	x	x	2	x	x	unsafe lane change	driver 1 eb merged from right to left and hit driver 2
10/27/2024	4:24 PM	nw hill st	nw greenwood ave	?Greenwood	within	dry	angle	unk	x	front left	yes-transported	x	x	bike -minor	1	x	x	cited	
11/8/2024	6:01 PM	ne 3rd st	ne greenwood ave	wb greenwood	within	dry	rear end	signal - rear end	front	rear	x	yes	x	x	2	x	yes	none	v1 wb in a lane stopped at light behind v2, foot muscle fatigue medical condition caused rear end
11/21/2024	6:23 AM	ne 2nd st	ne greenwood ave	wb greenwood	within	wet	left turn	left turn thru barrier	x		x	yes	x	x	x2	x	yes		sb driver attempted left turn onto 2nd and got stuck on median, broke 2 delinators in crash; said raining, hard to see
12/19/2024	4:18 PM	ne 2nd st	ne greenwood ave	wb greenwood	within	dry	angle	merge left from rlmtr	unk	front pass	x	yes	x	x	2	x	x	n/a hit and run	driver 1 failed to obey righ lane turn right at 2nd street and merged into lane 1 and driver 2, driver 1 was not located
1/4/2025	12:12 PM	nw wall st	nw newport ave	unk	within 100 ft	wet	rear end	?Ped?	front	rear	x	yes	x	x	2	x	x	unk	ref case rpt
1/22/2025	12:27 PM	nw wall st	nw greenwood ave		within	angle ped	signal - left hit ped in xw		x	x	minor	no	ped-minor	x	2	x	x	failure to stop/remain stopped	ped entered crosswalk walking nb on wall east leg at greenwood with walk symbol; v1s leg on wall made left turn to eb greenwood, sun in eye did not see ped, hit ped with bumper to lower body, ped hit hood and fell; no damage vehicle, minor injuries
2/10/2025	11:15 AM	nw hariman ave	nw greenwood ave	greenwood	within	snow	run off road	utility pole	front	x	x	yes	x	x	1	x	x	x	icy road, turning right from hariman to greenwood lost control and hit power pole, minor pole damage
2/14/2025	9:56 AM	nw bond st	nw greenwood ave	nb bond	near	snow	angle	sidewipe lane change	front driver	Front pass	x	yes	x	x	2	x	x	unlawful lane change	courthouse construction parking only on left, v1 turned on wall then change dir left lane to park and hit v2
2/19/2025	10:35 PM	ne 1st st	ne greenwood ave	wb greenwood	within 500 ft	dry	run off road	divider/bridge	front driver	x	yes-transported	x	x	x	1	x	yes	arrest	ref case report: v1 driving wb collided with underpass barrier, alcohol involved
2/26/2025	11:00 AM	nw hill st	Greenwood Ave nw	greenwood	within	dry	head on	stop sign failure to yield	pass rear	front	x	yes	x	x	2	x	x	careless	v1 sb stopped at greenwood then thought was clear and continued sb didn't see v2 eb on greenwood that hit v1 on passenger side, v1 admitted fault
3/6/2025	14:04	nw wall st	nw newport st	wb newport	near	dry	rear end	3rd vehicle stopped at xwalk	front	rear	x	yes	x	x	2	x	x	careless	v1 wb on newport, sneezed and looked up at hit v2 who was stopped behind v3 who has stopped at the crosswalk; no damage to v3
3/15/2025	4:53 PM	nw hill st	nw greenwood ave		near	wet	angle	u turn from parking	front	front	x	yes	x	x	2	x	yes both	u1 parked along eb lane intending to make a u turn from the parking space to go west, did not see v2 who had no time to stop	

crash date	Time of Crash	n/s street	E/w street	on	Dist from Int	Surface Condition	crash type	crash type detail	damage 1st	damage 2nd	injury	pdo	ped	bike	car	parked car	veh towed	ticket (warning or tkt)	other note
3/28/2025	3:32 PM	nw hill st	nw greenwood ave	eb greenwood	within	dry	rear end	stopped in traffic	none	none	x	x	x	x	2	x	x	careless	v1 eb on greenwood, looked down at radio, looked up too late and hit v2 who was at complet stop in traffic
4/2/2025	4:33 PM	nw harriman st	nw greenwood ave	eb greenwood	within	dry	rear end	stopped in traffic	front	rear	x	yes	x	x	2	x	x	follow too close; (v2 dws)	v1 eb greenwood near harriman saw vehicle to his right with hazards on looked like going to back into him so he went forward; v2 in front had stopped, v1 couldn't stop in time
4/10/2025	10:41	ne 3rd st	ne greenwood ave	nb 3rd st	within	dry	rear end	stopped in traffic	front	rear	x	yes	x	x	2	x	x	careless	v1 nb 3rd st in lane, proceeded on green, reached for dog in back seat and v2 ahead had stopped, v1 rear ended
4/12/2025	1:14 PM	ne 3rd st	ne greenwood ave	wb greenwood	near	dry	angle	multi lane change from driveway	front driver	front pass	x	yes	x	x	2	x	x	fail to yield ; warned careless	v2 wb in a lane, v1 pulled out of arco heading for left turn lane to go sb; car had stopped in b lane and hit v2 in a lane
4/16/2025	5:30 PM	ne 3rd st	ne greenwood ave	eb greenwood	within		rear end	stopped in traffic	front	rear	yes - transported	x	x	bike - inj	1	x	x	careless	ebike reported zig zagging in/ out traffic at approx 20- 25 mph; rear ended v2 that was stopped in the #3 lane eb greenwood at 3rd street (all lanes were bumper to bumper), ejected off a bike to pavement, e bike flipped up to car shattering rear window
4/22/2025	4:17 PM	nw 1st st	nw greenwood ave	eb greenwood	near	dry	rear end	stopped in traffic	front	rear	x	yes	x	x	2	x	x	uninsured, warning follow too close	v1 eb on greenwood saw v2 ahead and slowing to stop, brakes not working and didn't stop fast enough (picked up vehicle from shop for brake issues)
5/2/2025	9:49 PM	nw wall st	nw greenwood ave	greenwood	within	dry	angle	signal, straight-left	front, mid driver	front pass						yes	failure to obey tcd	ref case rpt	
5/6/2025	12:11 PM	nw hill st	nw greenwood ave	eb greenwood	near	dry	rear end	stopped in traffic	front	rear	x	yes	x	x	2	x	x	v1 eb greenwood rear ended slowed/ stopped v2	
6/4/2025	2:34 PM	wall	greenwood	eb greenwood		dry	angle ped	signal left ped in xw	front		x	x	ped - minor	x	1	x	x	failure to stop for ped	left on greensb wall to eb greenwood distracted by honking; hit ped in crosswalk northbound to east leg greenwood, ped was midway across eb lane
6/6/2025	3:04 PM	ne 3rd st	Greenwood Ave	eb greenwood		dry	rear end	signal - rear end	front	rear	x	x	x	x	2	x		careless driving	v2 eb stopped in right hand eb lane west of 3rd and was rear ended by v1 who was fixing radio/ phone connection and rolled into v2
6/10/2025	9:08 PM	ne 3rd st	Greenwood Ave	3rd	100 ft	dry	rear end	parked	rear	rear	x	yes	x	x	2	parked	x	x	unk ; ref case rpt
6/17/2025	2:30 PM	ne 3rd st	Greenwood Ave	greenwood		dry	sidewipe		x	front pass	x	yes	x	x	1	unk	x	dws-v	ref case rpt, west of 3rd
6/25/2025		ne 3rd st	franklin	sb 3rd			right hook		x	mid pass	x	x	x	bike - none	1	x	x		sb bike in bike lane, both saw each other
6/26/2025		ne 3rd st	Greenwood Ave	sb 3rd			rear end	signal - rear end	front	rear	x	yes	x	x	2	x		careless driving	v1 stopped inching forward when spider fell, didn't break in time to hit stopped v2
7/3/2025	10:49 AM	ne 2nd st	Greenwood Ave	eb greenwood		dry	sidewipe	lane change into signal queue	mid pass	rear driver	x	yes	x	x	2	x	x	x	v2 driver in 3rd street signal queue stopped near 2nd, v1 made right turn off nb 2nd and was trying to get into far left lane when he hit v2, v1 left scene
7/7/2025	11:41 AM	ne 3rd st	Greenwood Ave	wb greenwood		dry	rear end	signal - rear end	front	rear	x	yes	x	x	2	x	x	careless	2nd vehicle started early on green and hit; 2nd driver was looking down, moved then looked up
7/10/2025	9:40 AM	ne 3rd st	Greenwood	eb greenwood		dry	rear end	signal - rear end	front	rear	x	yes	x	x	2	x	x		2nd vehicle started early on green and hit vehicle in front then drove
7/29/2025	5:09 PM	ne 3rd st	Greenwood	nb 3rd		dry	side swipe	signal - rear end/ sideswipe	front pass	rear driver	x	yes	x	x	2	x	x	x	northeastbound 3rd eb 3 stopped at signal, vehicle 1 moved from thru to left lane and hit vehicle 2