

Downtown Hendersonville Pedestrian Count – Main St at 3rd Ave. East

Time Period: Wednesday January 3, 2024, to Tuesday January 9, 2024

Location: Outside of Black Bear Coffee on the East Side of Main Street.



(Image: Google Maps)

Equipment: EcoCounter Pyro Counter. Placed Tuesday January 2, 2024, and retrieved January 9, 2024. RPO Counter number 2 was placed on the east side of the street in front of Black Bear Coffee. RPO Counter number 1 was placed on the west side of the street outside McFarlan Bake Shop. The east side counter was placed outside Black Bear Coffee to update data from May 2016. The west side counter was placed to establish a baseline and compare the data with that from across the street. Both were intentionally placed north of the pedestrian crosswalk at midblock.

The Pyro Counter can count bicyclists, pedestrians, skateboarders, rollerbladers, or anyone who passes within approximately 16.5 feet of the equipment. However, the device is unable to differentiate between the different users and simply counts them as general users.

Possible sources of error include facility-users walking side-by-side or very close to each other; this is likely to include people walking or running side-by-side, children being held by a parent or walking along side of them, or dense groups of users. It is unclear how many users are likely to have been missed due to these circumstances and there has been no effort to make up for this discrepancy.

Results

2016

Total Users	11,628
Users/Hour	69.2
Peak 24-Hour Usage	2,592
Peak Day	Saturday, May 21st
Peak 2-Hour Period	483
Peak 2-Hour Day & Time	3:00 PM – 5:00 PM Saturday, May 21st

2024

Main Street North of Second Ave (E)

Total Users	6,502
Users/Hour	38.7
Peak 24-Hour Usage	1,547
Peak Day	Saturday January 6, 2024
Peak 2-Hour Usage Period	515
Peak 2-Hour Date and Time	Sat. Jan 6, 2024 -- 2 PM to 4 PM

The data is difficult to compare between May and January, as well as between 2016 and 2023. Peak usage for the week is comparable during 2023 compared to 2016. This year on Tuesday there was a daylong rainstorm that produced up to seven inches of rain in the region. The data on Tuesday showed that people heeded warnings and stayed away from downtown.

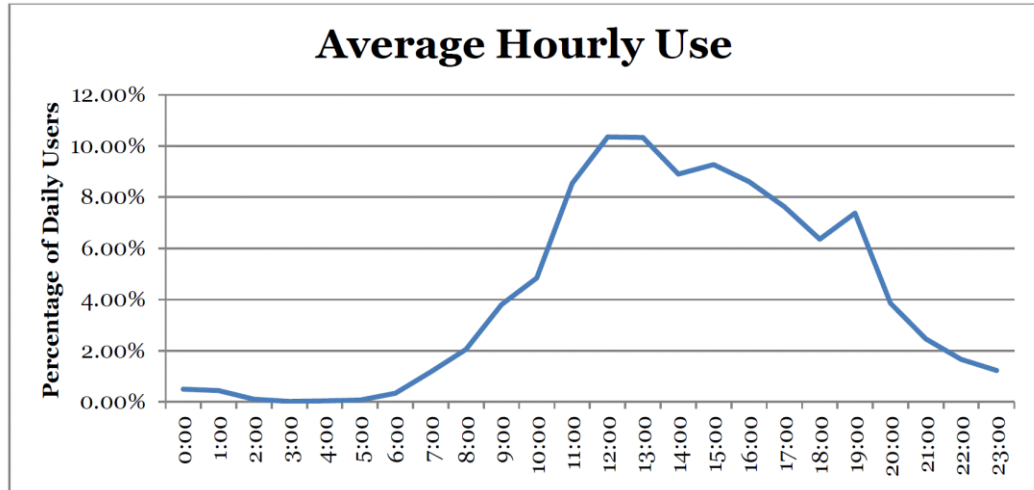
The daily breakdown of foot traffic was consistently higher during May of 2016 than January 2023. The weekend traffic, by hour, appears proportionate to the traffic during the week. The weekend traffic during 2023 has a more pronounced activity peak around 1 PM and 2 PM.

This data was collected to update the data from 2016, and to set a rotation for collecting more data on a regular basis. It is the intention to repeat this count during the third week of May. There was also data collected on the west side of the street. The east versus west comparison is in a second report.

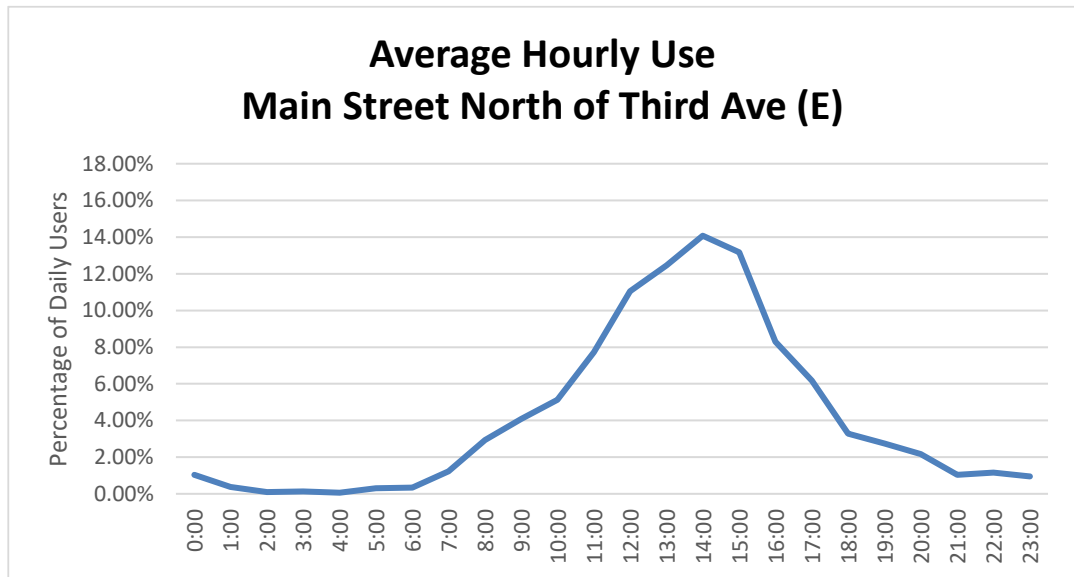
Patterns of Use

The following chart illustrates the average use of the sidewalk at the county location.

2016

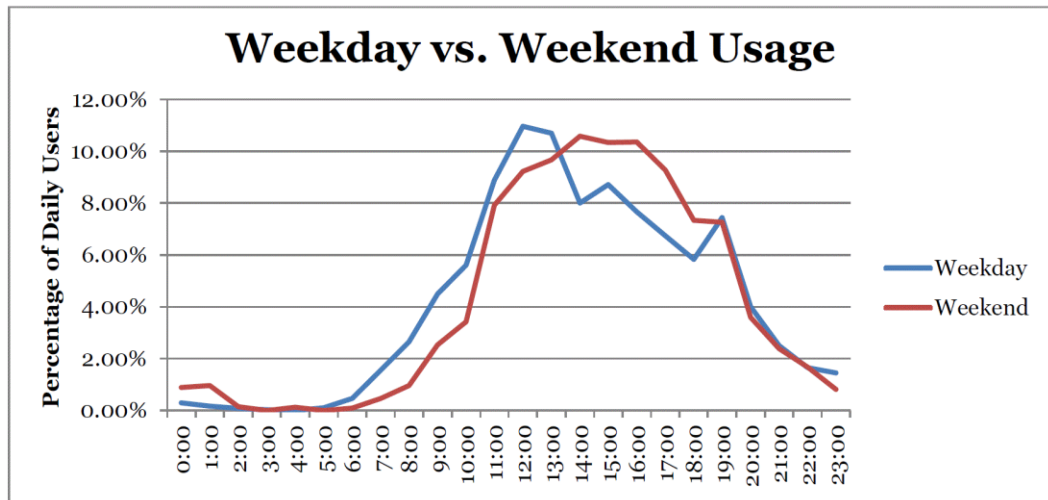


2024

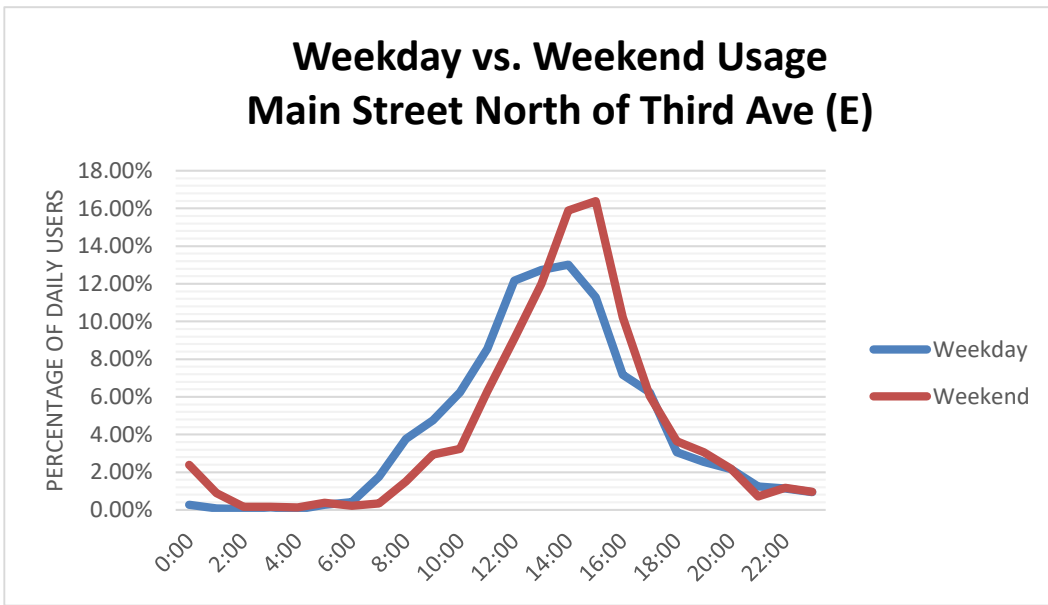


The second chart illustrates the different pattern of usage between the weekday and weekend.

2016

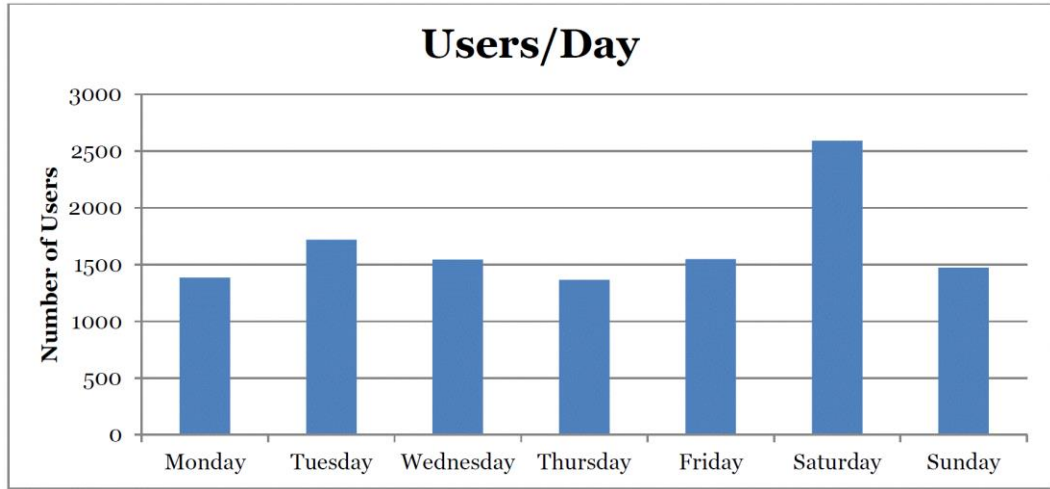


2024

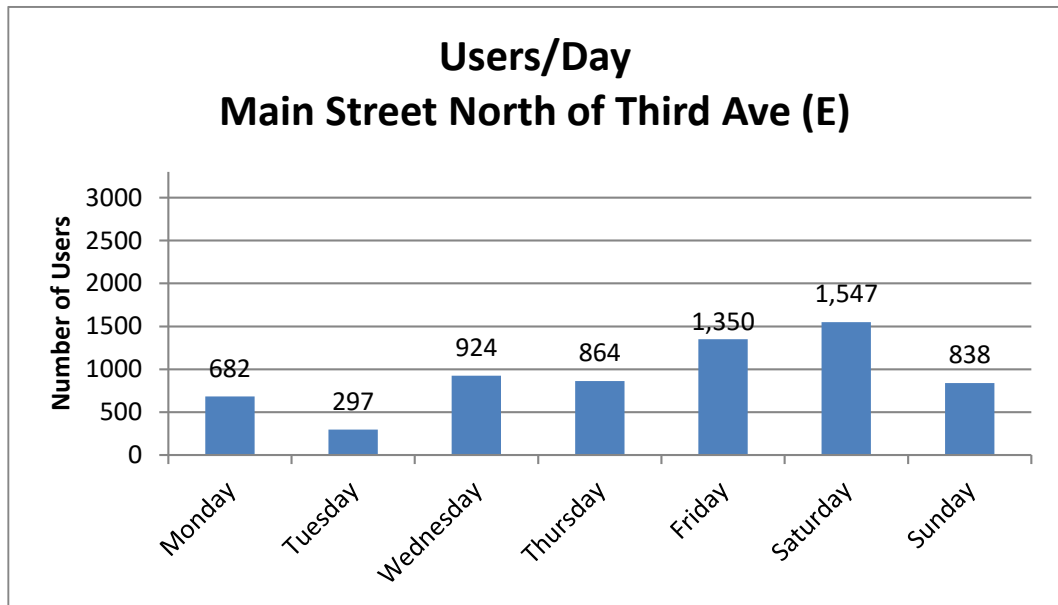


The third chart shows users/day.

2016



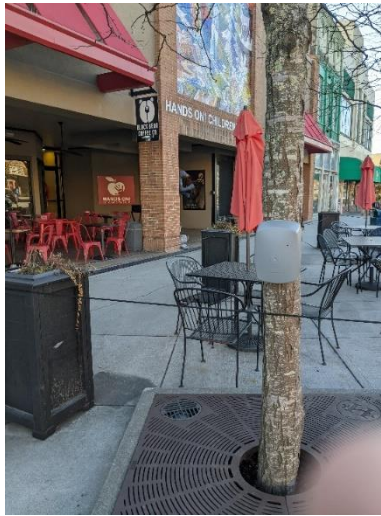
2024



Notes:

Date	Minimum Temperature	Maximum Temperature	Average Temperature	Precipitation	Ave. Wind Speed
1/4/2024	27.1 °F	40.3 °F	34.0 °F	0.00 in	2.7 mph
1/5/2024	16.9 °F	41.0 °F	30.9 °F	0.00 in	0.9 mph
1/6/2024	31.5 °F	50.0 °F	38.6 °F	1.34 in	0.6 mph
1/7/2024	28.8 °F	48.6 °F	38.0 °F	0.00 in	1.7 mph
1/8/2024	25.3 °F	43.9 °F	35.9 °F	0.02 in	1.6 mph
1/9/2024	33.1 °F	50.7 °F	40.0 °F	2.83 in	1.1 mph
1/10/2024	26.8 °F	45.0 °F	36.6 °F	0.00 in	1.3 mph

<https://www.wunderground.com/dashboard/pws/KNCHENDE267/table/2024-01-2/2024-01-2/monthly>



1.

'Pretty much whole South side of Hendersonville is shut down': Public works superintendent.
<https://www.blueridgenow.com/story/news/local/2024/01/09/flooding-closes-several-roads-in-south-side-of-hendersonville/72164214007/>