

Downtown Hendersonville Pedestrian Count – Main Street at 3rd Ave. East and West

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

Location: Outside of Black Bear Coffee on the East Side of Main Street, Outside of McFarlan Bake Shop on the West Side of the 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 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 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.

NOTE: The west pedestrian counter was rotated 90 degrees at some point during the study period. It appears, based on the data, that this happened on Wednesday.

Results

Main Street North of Third 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

Main Street North of Third Ave. (W)

Total Users	8,388
Users/Hour	49.9
Peak 24-Hour Usage	1,943
Peak Day	Saturday January 6, 2024
Peak 2-Hour Usage Period	493
Peak 2-Hour Date and Time	Sat. Jan. 6, 2024 -- 1 PM to 3 PM

This is the first time that data was collected on the west side of main Street between Third Avenue and Fourth Avenue. The data on the west side of the street was consistently higher, except for Wednesday January 10th. The counter was twisted 90 degrees during the survey period. This appears to have happened late on Tuesday or early on Wednesday morning.

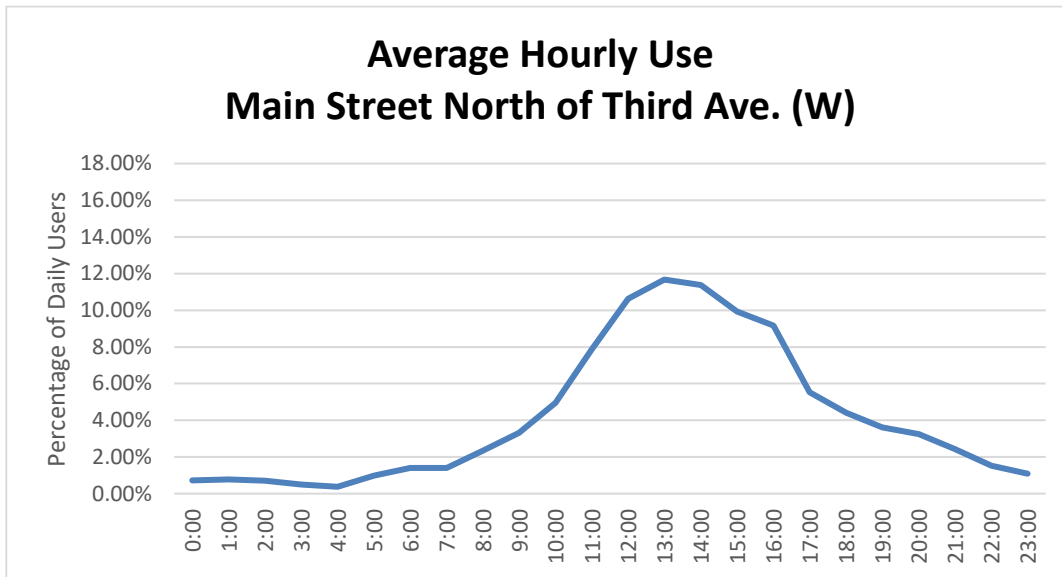
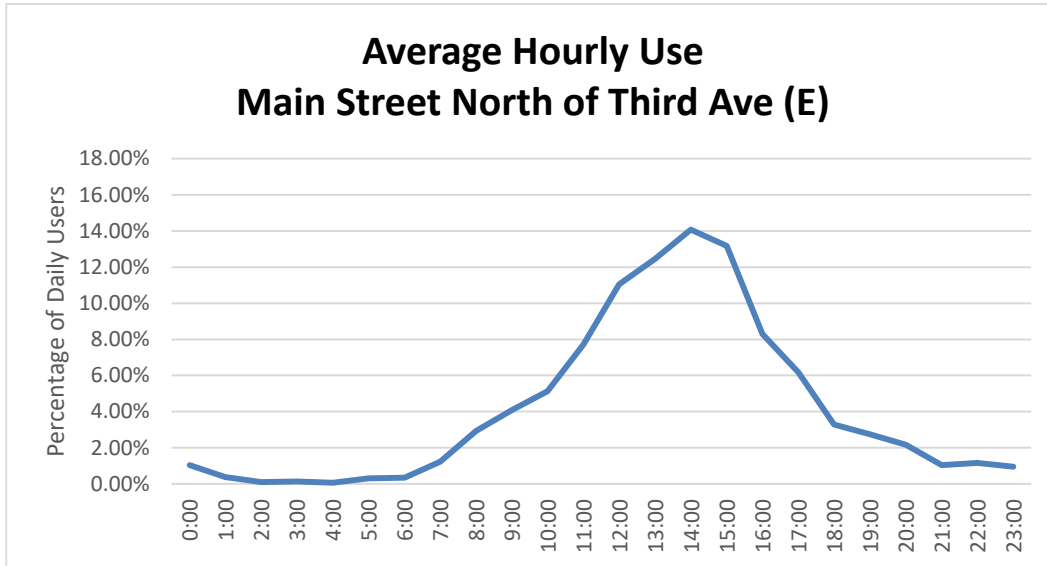
Tuesday January 9th there was a steady rain that fell across the region. Some areas received up to seven inches of rain. There was localized flooding in Hendersonville.

The placement of the counters was challenging due to the abundance of storefront windows (a good thing) due to the reflectivity of the windows. There was also the challenge of unobstructed sightlines from the trees that were available.

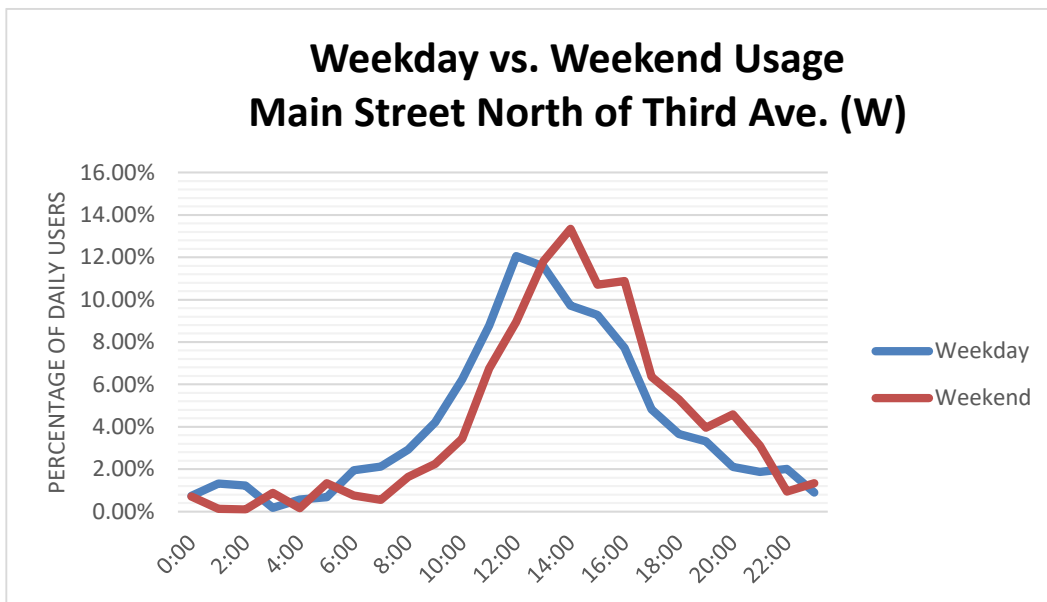
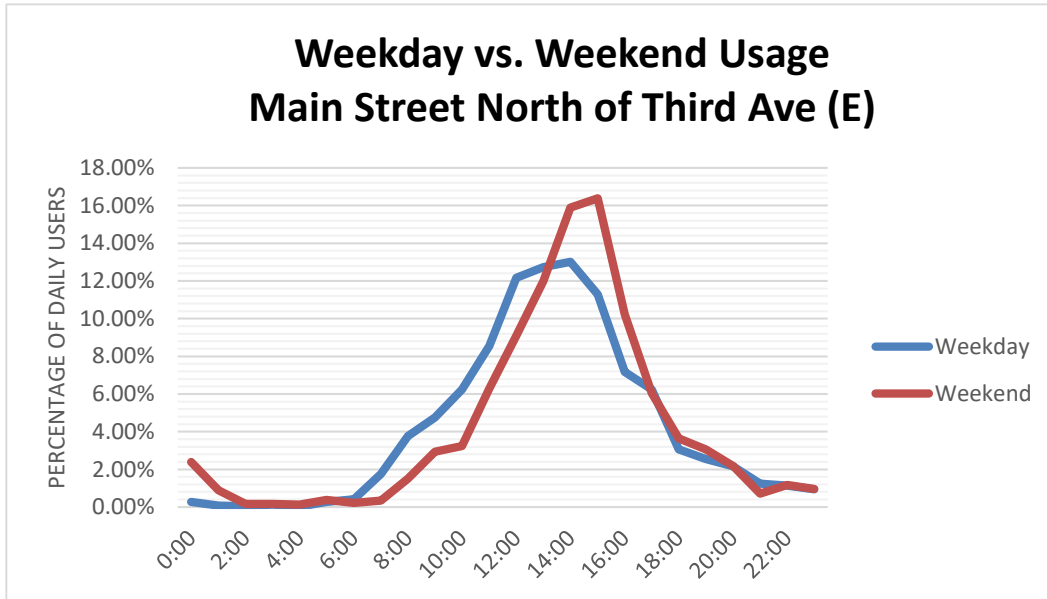
'Pretty much whole South side of Hendersonville is shut down': Public works superintendent.
<https://www.blueridgenow.com/story/news/local/2024/01/09/flooding-closes-several-roads-in-south-side-of-hendersonville/72164214007/>

Patterns of Use

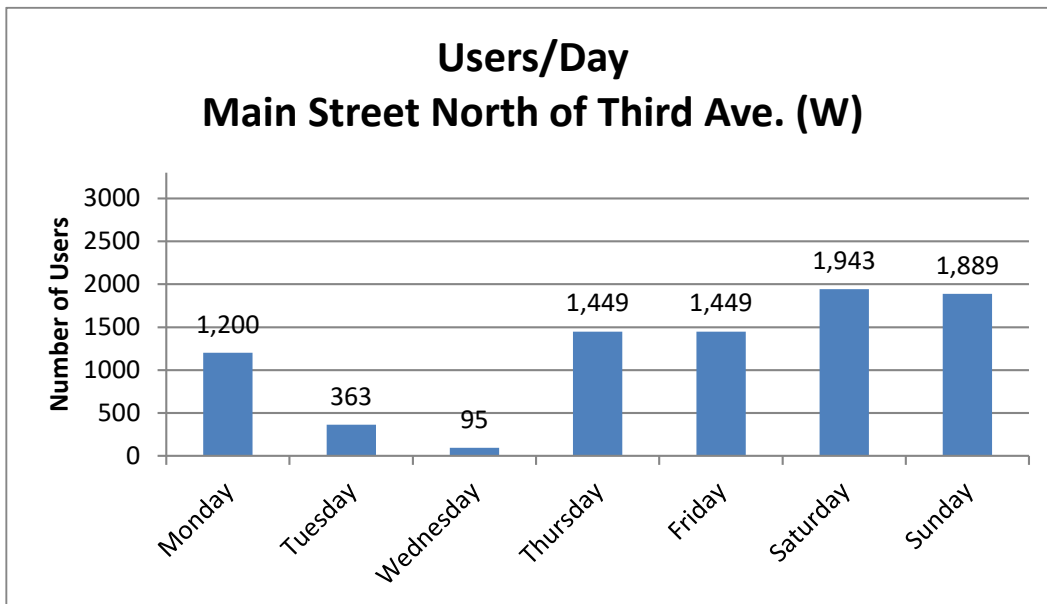
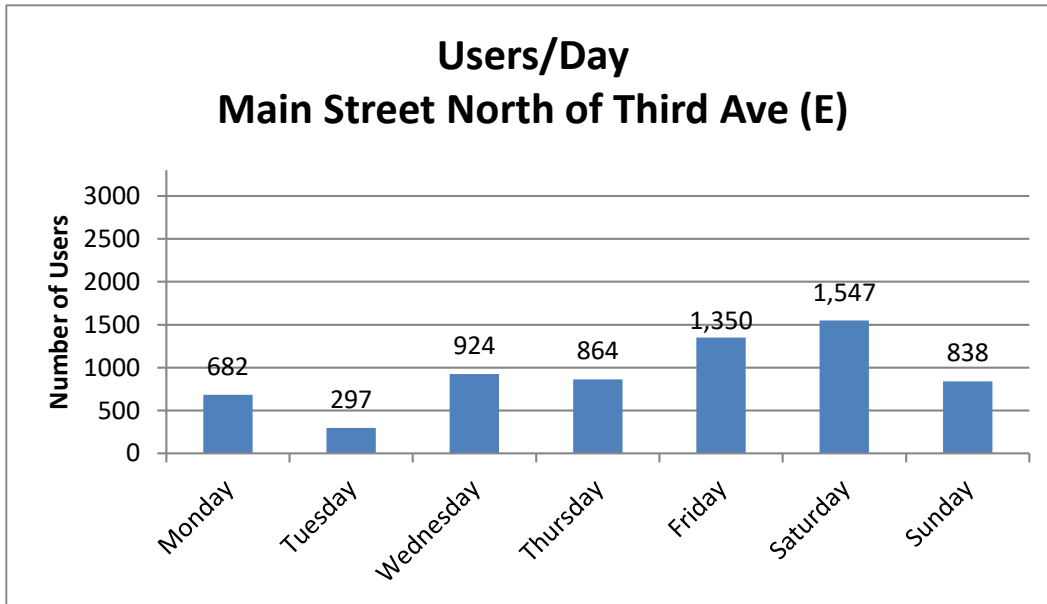
The following chart illustrates the average use of the sidewalk at the county location.



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



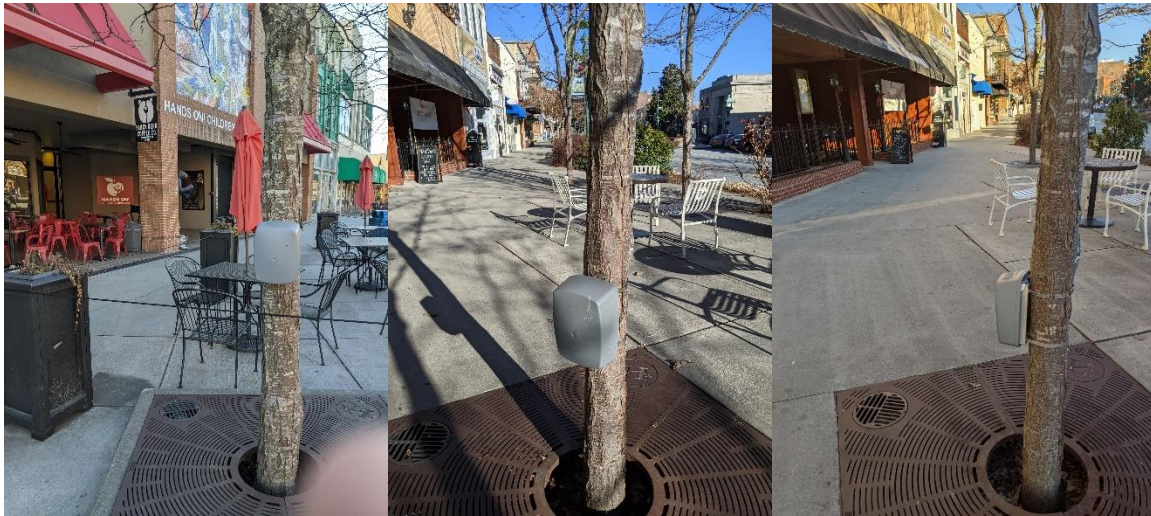
The third chart shows users/day.



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>



The center and right photo show the pedestrian counter outside of the bakery. The center photo is at placement. The right photo is at the end of the survey period.

