

# Swannanoa – Warren Wilson and US-70 Pedestrian Count

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**Time Period:** Friday March 8, 2024, to Thursday March 14, 2024

**Location:** Shell Station Bus Stop #563 Just west of Warren Wilson at US-70



(Image: Google Maps)

**Equipment:** EcoCounter Pyro Counter. Placed 3/7/2024 and retrieved 3/18/2024. RPO 1 Counter was mounted on a telephone pole on the north side of the road, near a desire line, at the unsheltered bus stop.

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 the number of users who were likely to have been missed due to these circumstances and there has been no effort to make up for this discrepancy.

## Results

This study was done prior to sidewalks being built along US-70 between Warren Wilson Rd and Franklin Road. There is a bus stop, #563 on the ART line. It is also a bus stop for the Black Mountain Trail Blazer. The spikes in activity coincide with bus departures.

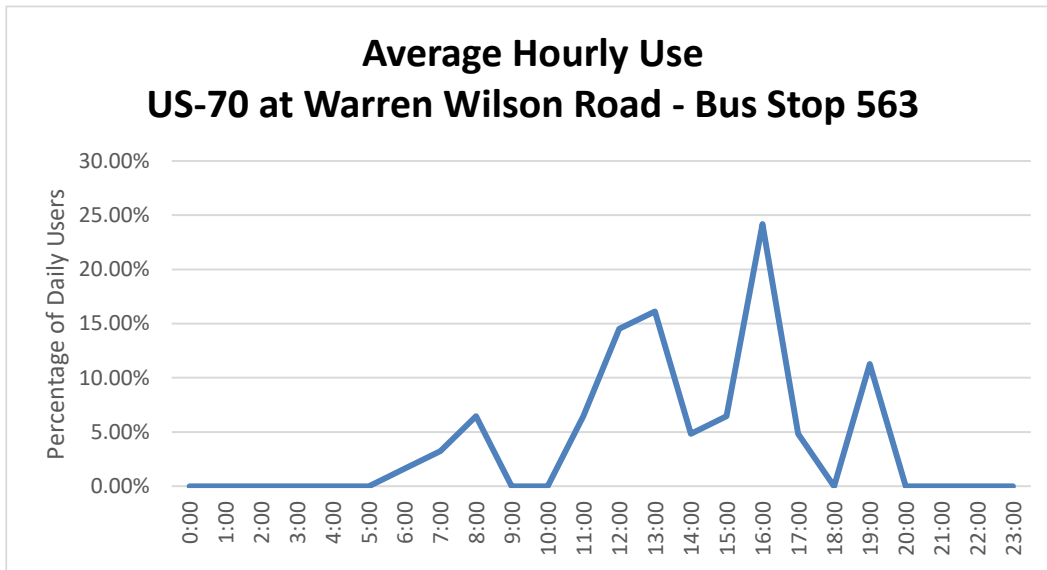
There are desire lines on each side of the road, the eastbound side, and the westbound side, in both directions, with the lines running up to the curb. Parts of the lines go under signs or around signs.

**US-70 at Warren Wilson Road - Bus Stop 563**

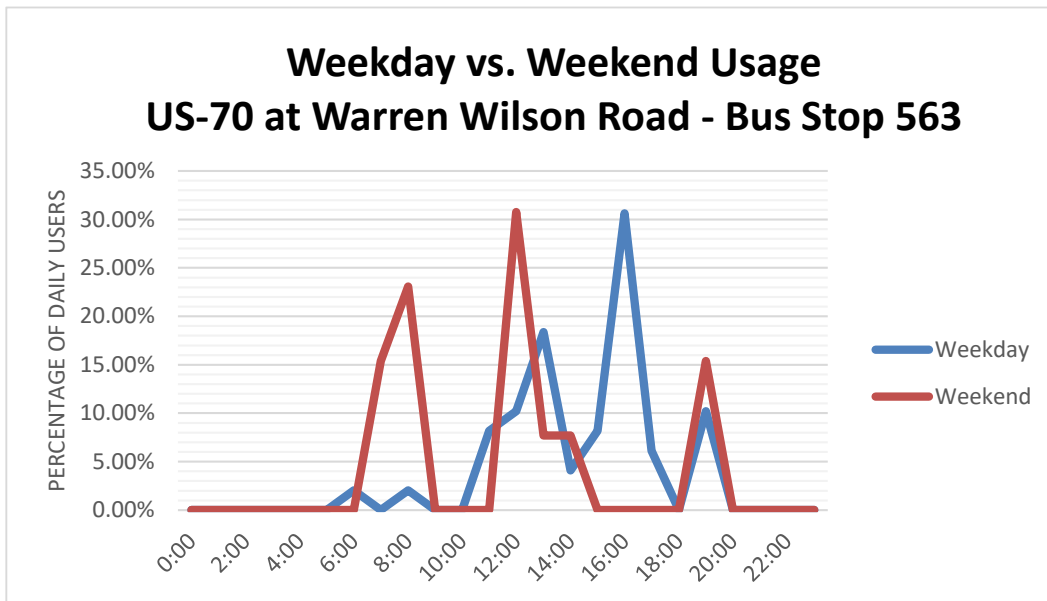
<b>Total Users</b>	<b>62</b>
<b>Users/Hour</b>	<b>0.4</b>
<b>Peak 24-Hour Usage</b>	<b>16</b>
<b>Peak Day</b>	<b>Tuesday March 12, 2024</b>
<b>Peak 2-Hour Usage Period</b>	<b>9</b>
<b>Peak 2-Hour Date and Time</b>	<b>March 12, 2024 -- 4 PM to 5 PM</b>

## Patterns of Use

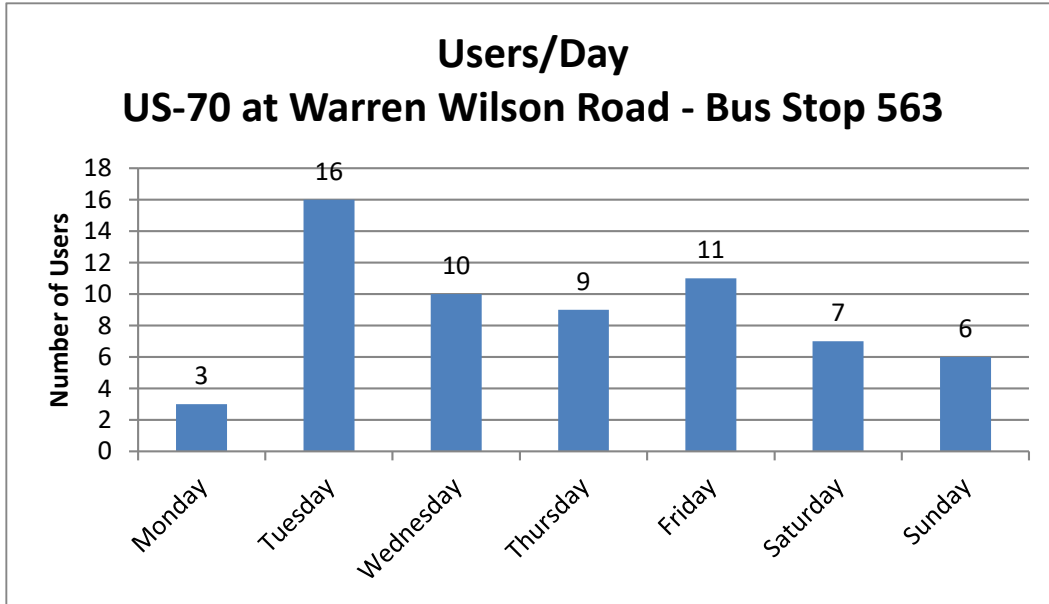
The following chart illustrates the average use of the sidewalk at the location. The frequency of stops at the bus stop appears to directly impact the data.



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



The third chart shows users/day. There was rain on Sunday.



## Notes:

The **ART Bust Route 170** travels this route, stopping on the 0:40 every two hours. (This matches well with the data from the website that shows a bus stop east of this location with pick-up times on the 0:33, starting at roughly 6:40 at this location and running until 8:40 PM. There is no 6:40 AM pick-up on Sunday. The bus Stop across the street, #552, stops on the hour, every two hours. There is a **Black Mountain Trailblazer route** that stops at this location at 11:55 AM and 7:55 PM.

Date	Minimum Temperature	Maximum Temperature	Average Temperature	Precipitation	Ave. Wind Speed
3/8/2024	52	59	55	0	8.1
3/9/2024	47	61	52.5	0.85	6.3
3/10/2024	43	45	44	0	14
3/11/2024	35	59	45.7	0	13.3
3/12/2024	30	68	49.6	0	4.9
3/13/2024	36	72	54.6	0	3.1
3/14/2024	39	77	58.4	0	4.9

<https://www.wunderground.com/history/monthly/KNCSWANN56>



