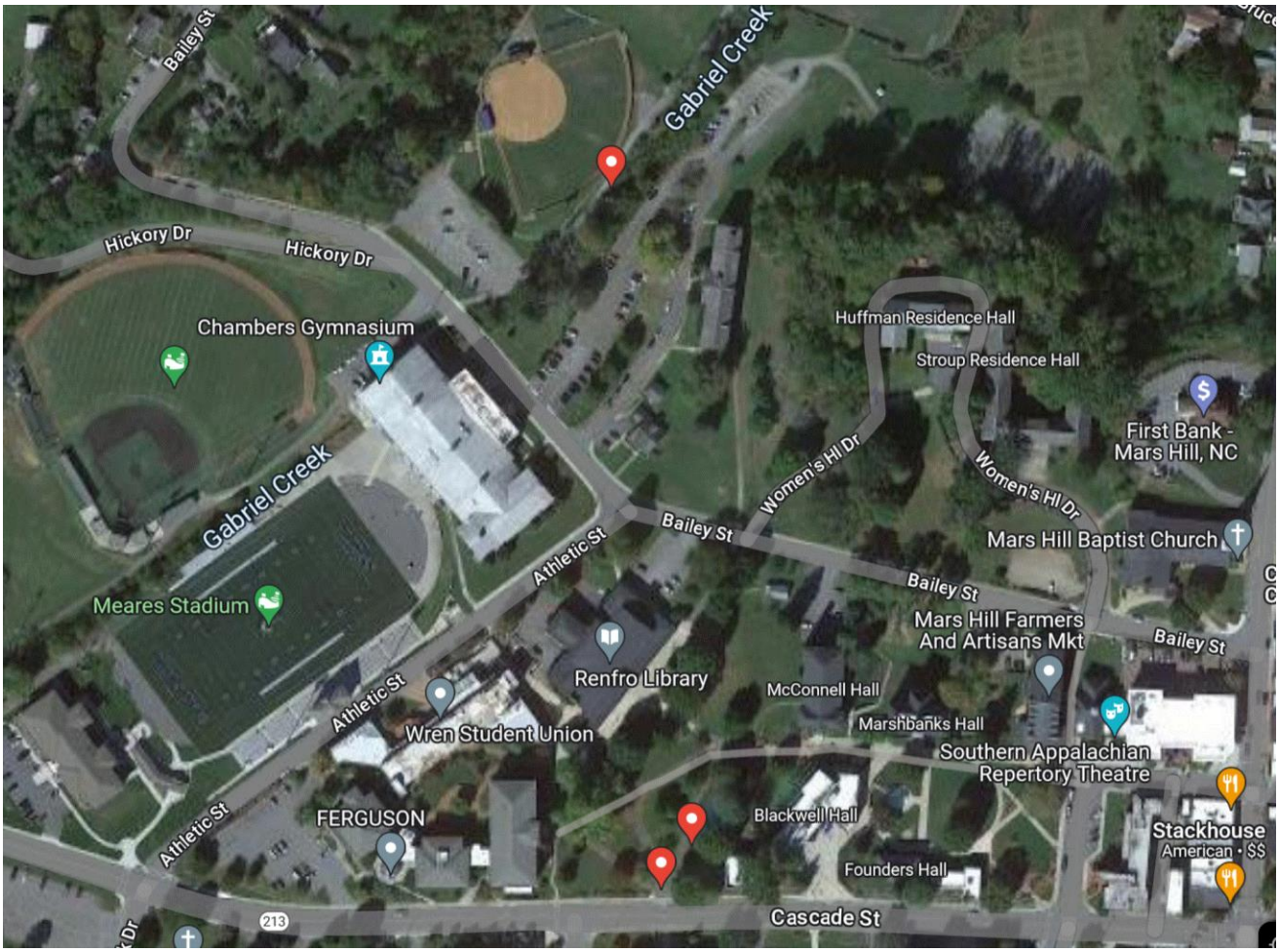
Mars Hill Trail Count

Time Period: Monday October 30, 2023 – Sunday November 5, 2023

Location: Located along the Dr. Otis Duck Trail, on a split rail fence post, opposite the Softball Field, along Gabriel Creek



(Image: Google Maps)

Equipment: EcoCounter Pyro Counter, set out on October 5, and retrieved October 12, 2023

The Pyro Counter is able to 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 likely discrepancy.

Results

Mars Hill Dr. Otis Duck Trail

Total Users	2234
Users/Hour	13.3
Peak 24-Hour Usage	442
Peak Day	Monday October 30, 2023
Peak 2-Hour Usage Period	124
Peak 2-Hour Date and Time	Monday October 30, 2023 4-6PM

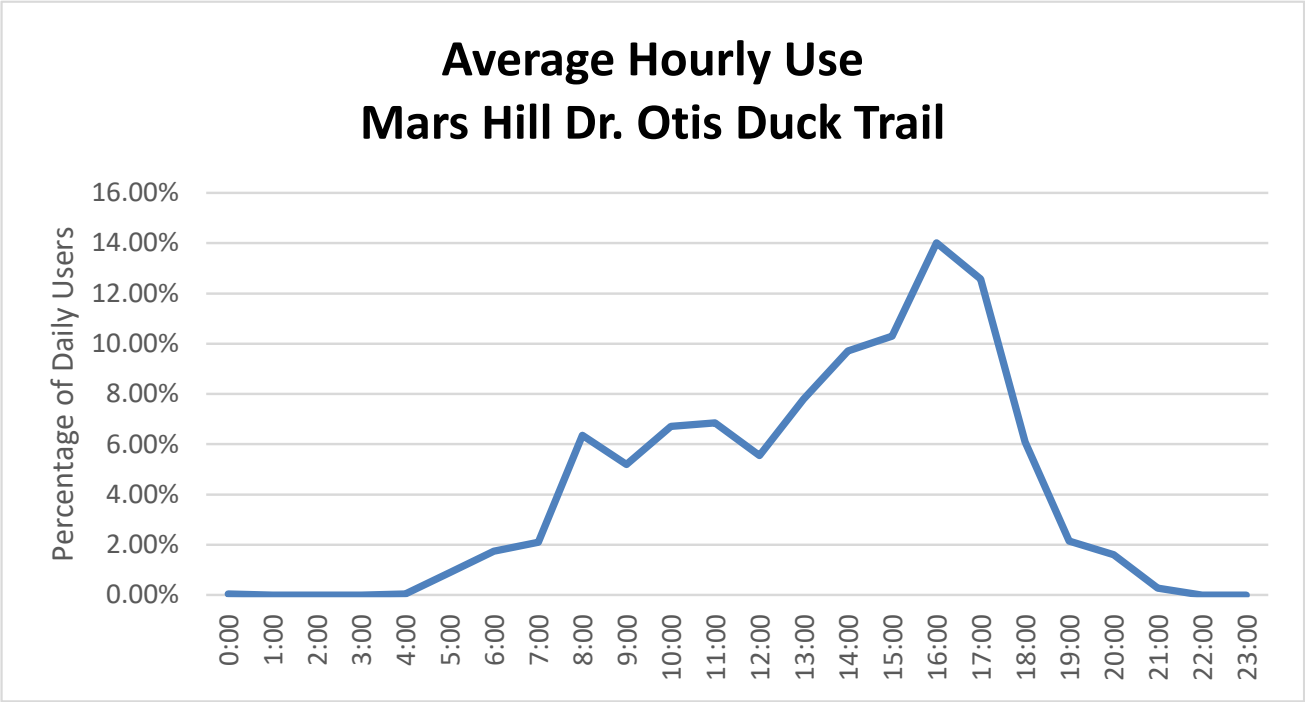
Two locations were surveyed during the week between Monday October 30th and Sunday November 5th. The first location was the Dr. Otis Duck Pedestrian and Bicycle trail. The second location was on the walking path on Mars Hill University, just north of NC-213. This counter, along the greenway, was placed on a split-rail fence post on the East side of the trail. It was placed where there was only one type of trail – an asphalt bike trail. There was a second type of trail, a gravel pedestrian trail, which ran in parallel with the bike trail, running ever so slightly closer to the stream.

Monday, October 30th had the best weather of the week, with the temperature range being between 56F and 76F. It also had the highest two-hour period of usage. The daily usage was 442 people, with 124 using the trail between 4PM and 6PM. The second most frequented 2-hour period of time was 4PM - 6PM on Saturday November 4 when 106 people used the trail.

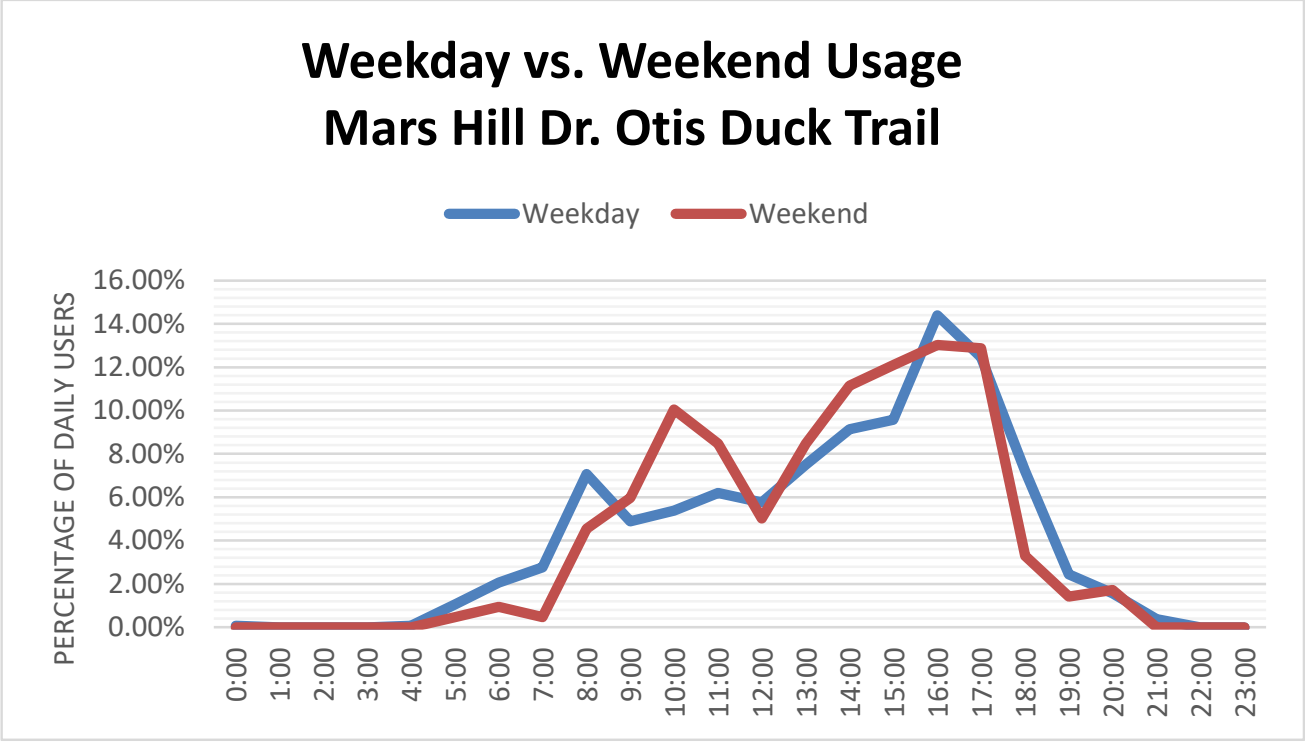
During the 2015 survey period there were 1454 users during a one-week period, with a peak daily usage of 344 pedestrians, an average hourly usage of 8.7 users per hour and a peak two-hour usage of 95 pedestrians.

Patterns of Use

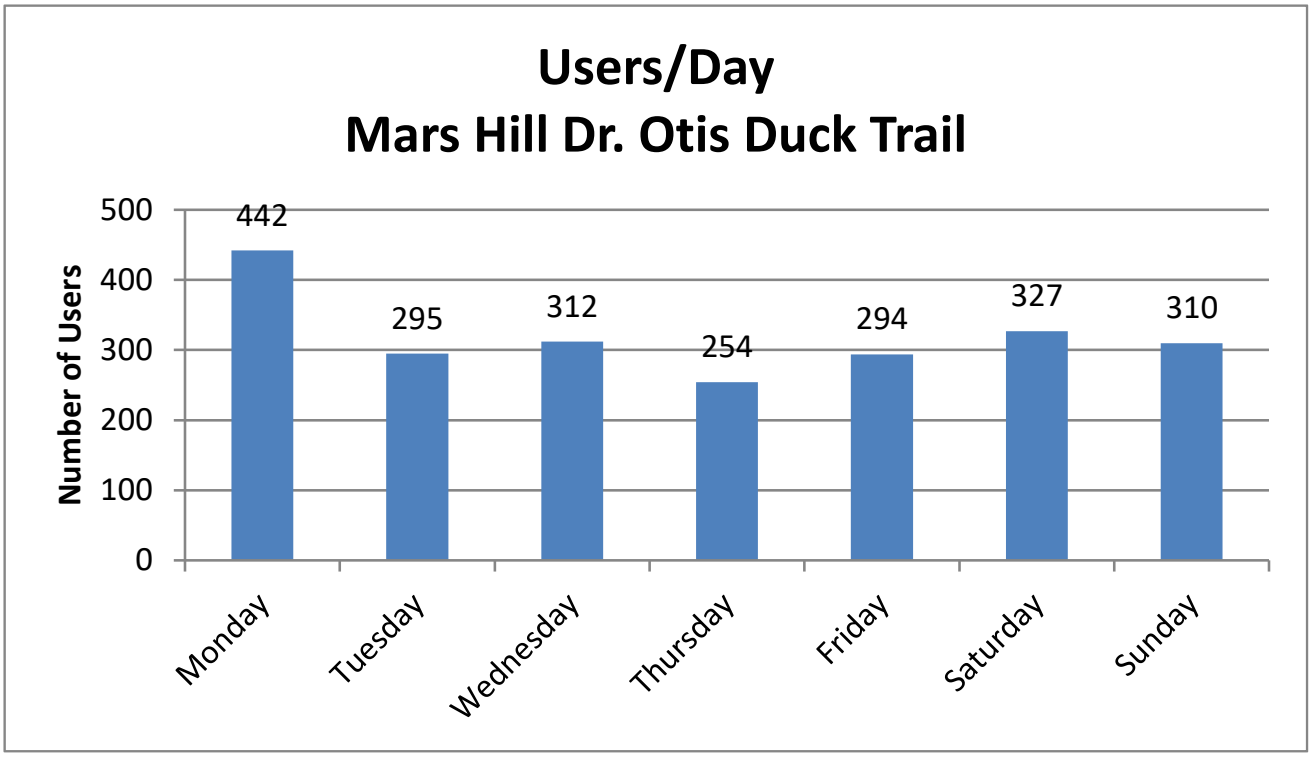
The following chart illustrates the average use of the sidewalk at the count location. This includes both weekday and weekend data and has greater weekday representation.



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



The third chart shows users/day.



Notes

Daily Observations - Mars Hill																
Time	Temperature (°F)		Dew Point (°F)			Humidity (%)			Wind Speed (mph)			Pressure (in)				Precipitation (in)
Date	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Total
10/30/2023	76.6 °F	56.3 °F	47.4 °F	60.2 °F	51.0 °F	43.3 °F	99 %	85 %	45 %	15.6 mph	1.8 mph	0.0 mph	29.64 in	29.50 in	0.01 in	0.03
10/31/2023	48.5 °F	44.4 °F	35.2 °F	44.2 °F	39.0 °F	21.3 °F	96 %	82 %	54 %	12.3 mph	1.6 mph	0.0 mph	29.66 in	29.57 in	0.00 in	0
11/1/2023	46	36.5	28	25	16.9	14	64	46.3	29	28	14.4	0	28.1	27.9	27.8	0
11/2/2023	56.1 °F	34.2 °F	18.6 °F	25.8 °F	19.7 °F	14.1 °F	94 %	62 %	21 %	9.8 mph	1.0 mph	0.0 mph	30.02 in	29.89 in	0.00 in	0
11/3/2023	66.9 °F	41.1 °F	23.9 °F	28.5 °F	21.9 °F	7.1 °F	90 %	56 %	10 %	10.5 mph	1.1 mph	0.0 mph	29.99 in	29.85 in	0.00 in	0
11/4/2023	70.5 °F	46.2 °F	27.1 °F	34.3 °F	26.4 °F	20.3 °F	84 %	53 %	17 %	9.6 mph	1.1 mph	0.0 mph	29.90 in	29.73 in	0.00 in	0
11/5/2023	70.8 °F	51.6 °F	40.6 °F	45.6 °F	37.9 °F	31.1 °F	89 %	62 %	37 %	10.2 mph	1.5 mph	0.0 mph	29.75 in	29.62 in	0.00 in	0
https://www.wunderground.com/dashboard/pws/KNCMARSH175/table/2023-10-27/2023-10-27/monthly https://www.wunderground.com/history/monthly/us/nc/mars-hill/KNCMARSH175