

Bill Moore Community Park Pedestrian Count

Time Period: Tuesday January 23, 2024, through Monday January 29, 2024

Location: Near the bridge over Cane Creek on the greenway, where the creek trail and the main trail meet.

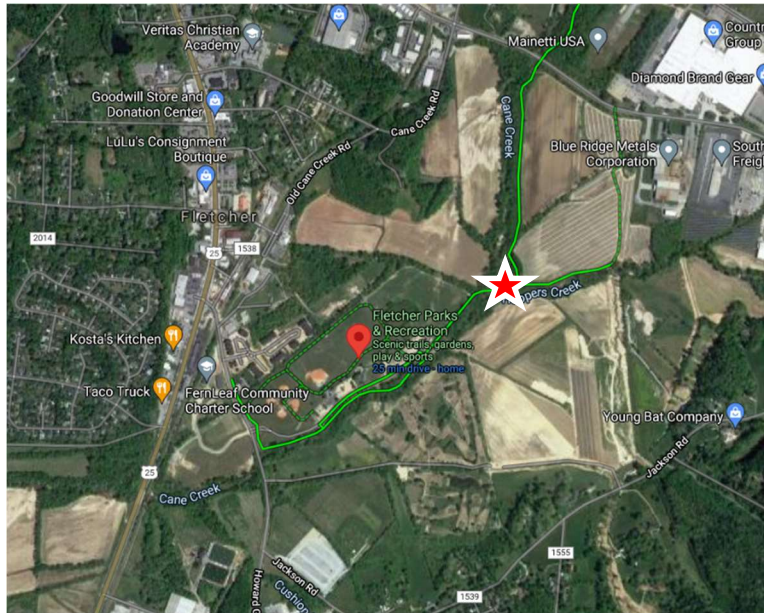


Image: Google Maps

Equipment: *Eco-Counter Pyro Counter*

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. The counter is bi-directional and accounts for users in both directions.

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 the number of users who may have been missed due to these circumstances.

The equipment was mounted on a fence where the river trail and the disc golf course trails meet. The counter was set out on Monday January 22nd and retrieved Thursday February 1, 2024. The plan is to revisit the site during March and August to compare data with prior survey time periods.

Results

Bill Moore Community Park

Total Users	3,764
Users/Hour	22.4
Peak 24-Hour Usage	983
Peak Day	Friday January 26, 2024
Peak 2-Hour Usage Period	271
Peak 2-Hour Date and Time	January 26, 2024 -- 2 PM to 4 PM
Peak 2-Hour Date and Time	January 27, 2024 -- 9 AM to 11 AM

Overview. This is the third time that this trail has been studied. The first time this location was studied it was a [four-week study](#) between March 9, 2021 and April 6, 2021. The second time was a [one-week study](#) between August 2, 2022 and August 9, 2022. In preparation for this visit the 28-day study was broken down into four seven-day segments, allowing for direct comparisons for the site during different seasons and different years. It is planned to update this data during the end of March and the beginning of August this year, to be able to compare apples to apples.

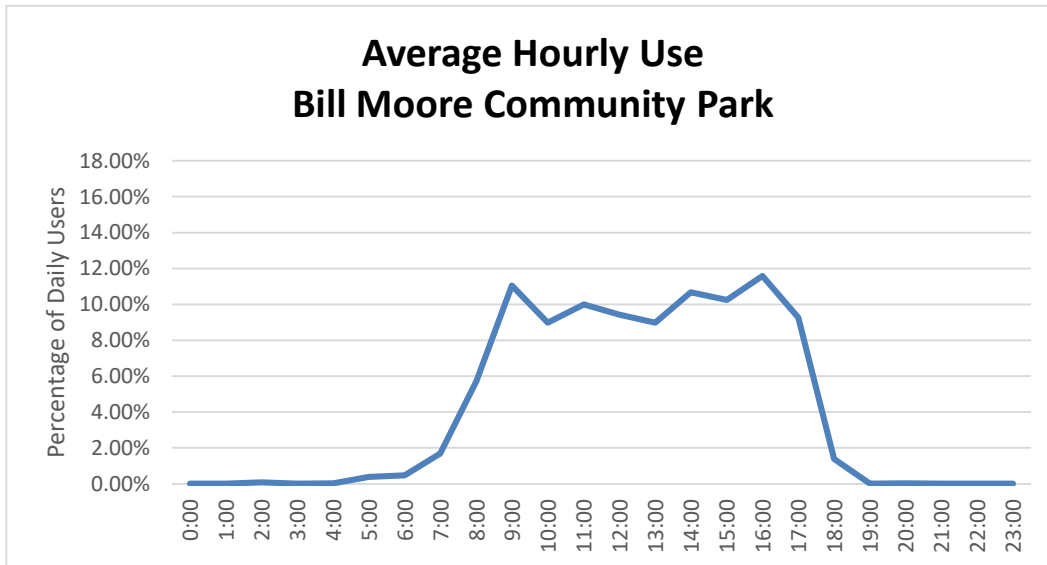
By examining the individual weekly data, it was observed that Week One was the busiest, followed by Week Four, Week Two and Week Three. Week One was the driest week. Week Three was the wettest week. Week Two had some rain Tuesday through Friday. Week Four had one inch of rain on Wednesday. The warmest temperatures during weeks one through three were 71, 70, and 80 degrees, respectively. The temperature hit 74 on the final day of the study, Monday April 5th. The busiest days for trail activity were the final two days of the study during week four, Sunday April 4th and Monday April 5th. The peak time shifted as the days lengthened due to Daylight Savings Time, shifting one hour a week, from 2 PM, to 4 PM, then 5 PM and finally 6 PM. There was a decline in activity from 9581 participants, to 7037, to 5020 per week, before rebounding to 8522 the final week. Peak days during the four-week varied, with 1838, then 1716, 1052, and 1981 users on the peak day. The peak two-hour period did not always coincide with the peak two-hour day. The peak two-hour period was between 467 and 488 except for the rainy week when it reached 377.

The one-week study showed a strong weekly use, with 8727 visitors, with a peak of 1577 on Sunday, and a peak two-hour period of 372 people on Sunday morning. Weekend users slightly skewed the overall data around 10 AM, while the evening data was skewed by the weekday users. The weather was fairly consistent with lows in the mid-sixties and highs in the mid-eighties.

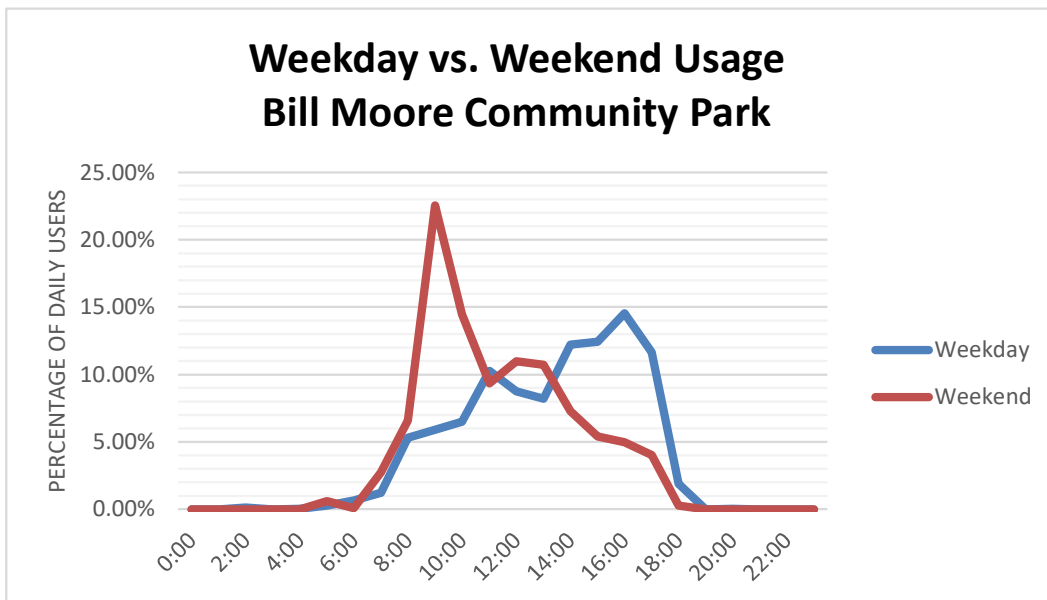
This week was chosen to update the data because the Fletcher Polar Run 5k was held Sunday January 28th starting at 10 AM. This was the slowest period measured. It was also the earliest time during the year that a sample was measured. The users per hour was 22.4 per hour. The maximum usage during a two-hour period happened twice, with only 271 users during the 2 PM to 4PM period on Friday January 26, 2024, and for the period of 9 AM to 11 AM on Saturday January 27th. Thursday and Saturday were rainy days, with Thursday having the fewest visitors pass in front of the counter.

Patterns of Use

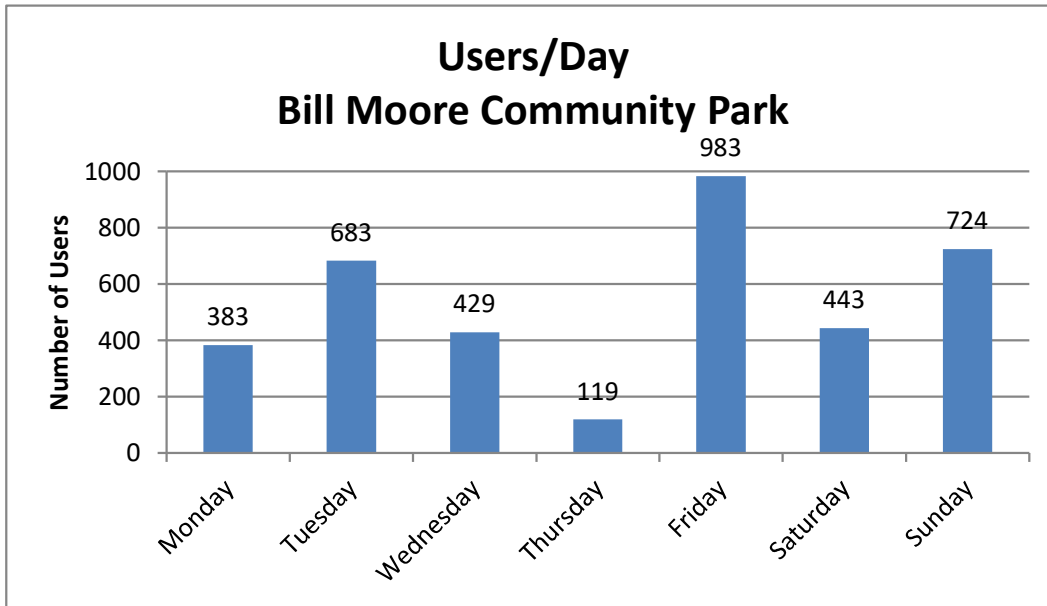
The first chart shows users per hour: There is fairly consistent use between 9 AM and 4 PM.



The second chart illustrates the difference between the weekday usage and weekend usage. This pattern has been seen in other parks in the region – Early Morning Weekend Use, Afternoon Weekday Use



The third chart shows the usage per day: Friday was the warmest day of the seven-day period and had no precipitation. Tuesday January 30th was cool and dry. Thursday and Saturday were wet.



Weather and Notes



We have had a wet Winter this year. The rain appears to have impacted the usage on Thursday and Saturday during this study. The differences in the data from the prior studies can be attributed to seasonally variance. This study will be repeated closer to the prior times of year that the data was collected at his site.

Date	Minimum Temperature	Maximum Temperature	Average Temperature	Precipitation	Ave. Wind Speed
1/25/2024	53.4 °F	61.9 °F	58.3 °F	1.51 in	0.4 mph
1/26/2024	46.6 °F	71.8 °F	58.2 °F	0.00 in	0.7 mph
1/27/2024	41.0 °F	54.7 °F	48.4 °F	1.35 in	0.3 mph
1/28/2024	38.3 °F	53.4 °F	44.7 °F	0.05 in	3.1 mph
1/29/2024	32.0 °F	45.5 °F	38.2 °F	0.04 in	4.1 mph
1/30/2024	22.5 °F	52.5 °F	37.5 °F	0.00 in	0.9 mph
1/31/2024	33.8 °F	43.7 °F	38.8 °F	0.02 in	3.0 mph

<https://www.wunderground.com/dashboard/pws/KNCFLETC83/table/2024-01-1/2024-01-1/monthly>