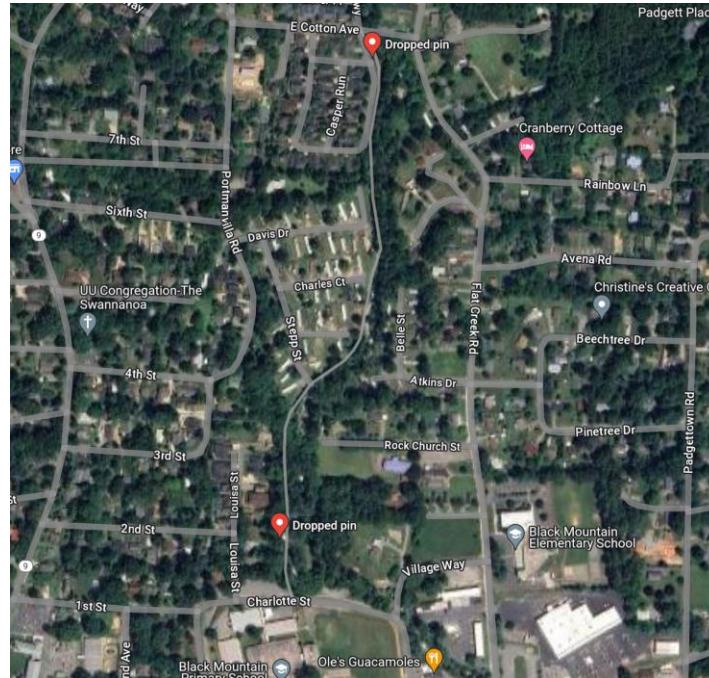


Black Mountain Flat Creek Greenway Pedestrian Count

Time Period: Thursday March 28, 2024, to Wednesday April 4, 2024

Location: Flat Creek Greenway between Charlotte Street at E Cotton Avenue



(Image: Google Maps)

Equipment: EcoCounter Pyro Counter. Placed 3/27/2024 and retrieved 4/4/2024. RPO 1 Counter was mounted along the trail just north of Charlotte Street. RPO 2 Counter was mounted along the trail just south of Cotton Street.

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.

As with all these surveys, this is just a snapshot in time for activity in the study area. There can be differences in activity due to the time of year the survey is conducted. Weather can have an impact on the results of the survey. Efforts will be made to repeat the survey during different seasons and during the same time of the year during future years.

Results

This study was done in advance of proposed upgrades to the trail system in Black Mountain. Project EB-5547A is planned to connect Black Mountain Avenue to the Flat Creek Greenway. This survey can set a baseline for the Flat Creek Greenway. Project EB-5547B is planned to connect Black Mountain Avenue to the “Into the Oaks Trail.”

Flat Creek Greenway at Charlotte Street

Total Users	1,606
Users/Hour	9.6
Peak 24-Hour Usage	280
Peak Day	Saturday March 30, 2024
Peak 2-Hour Usage Period	89
Peak 2-Hour Date and Time	Monday April 1, 2024 -- 6PM to 8PM

Flat Creek Greenway at E. Cotton Avenue

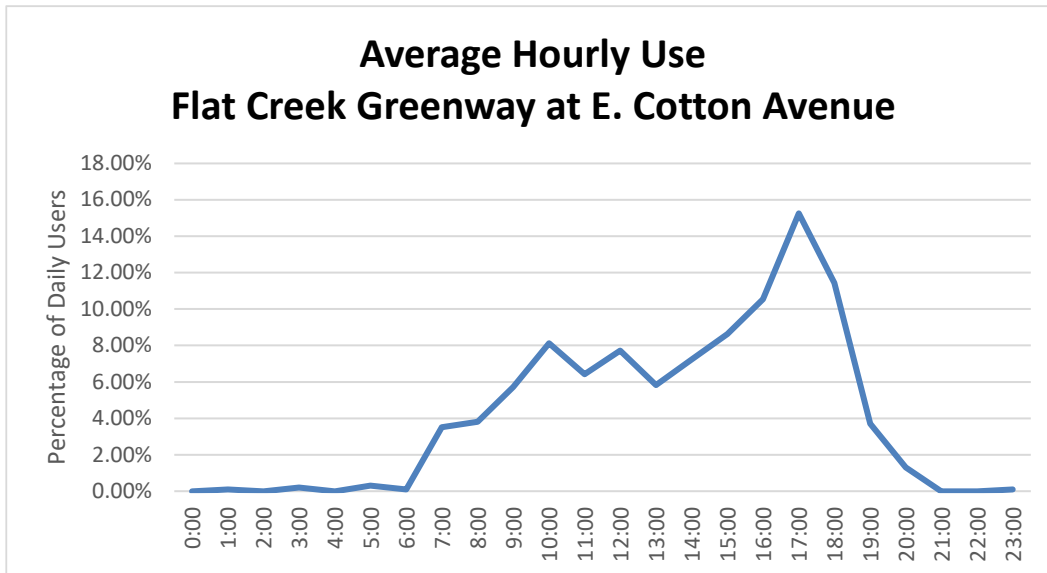
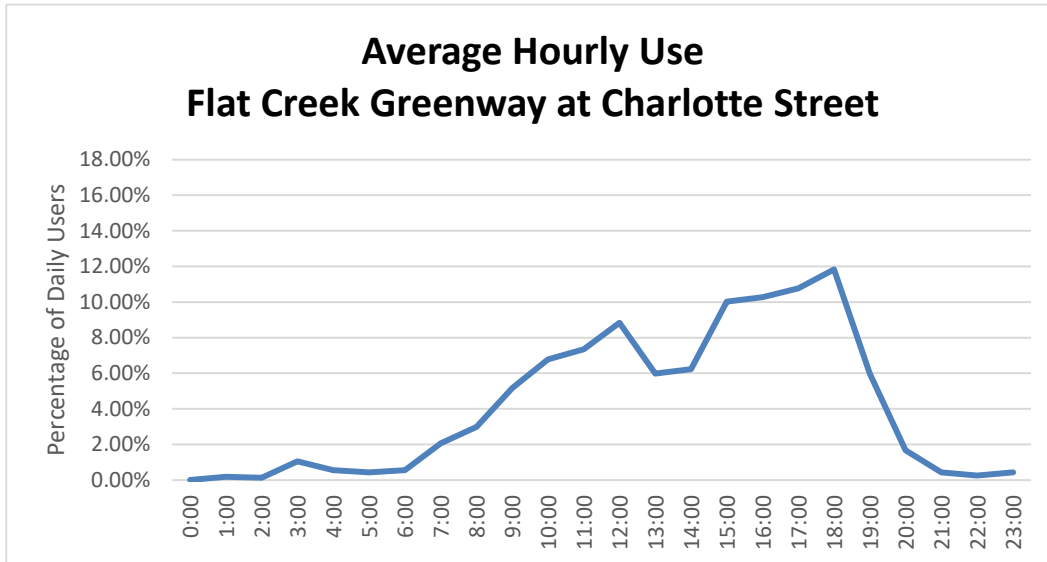
Total Users	997
Users/Hour	5.9
Peak 24-Hour Usage	163
Peak Day	Saturday March 30, 2024
Peak 2-Hour Usage Period	49
Peak 2-Hour Date and Time	March 30, 2024 -- 4PM - 6PM

According to the [Black Mountain Greenways Website](#) “The Flat Creek Trail is approximately .5 miles long with the trailhead located behind the Primary School and traveling North until it connects to Cotton Avenue. The first section of the Flat Creek Trail is dedicated in honor of Emilee Russell. Emilee's Way honors a child Black Mountain who died as a result of Rocky Mountain Spotted Fever, and was a frequent user of the Flat Creek Greenways PhotoTrail. The Flat Creek Trail is paved, level, and includes interpretive signage about streambank restoration. Plans for the Flat Creek Trail include the hope that it will continue North and connect to the Montreat Gate, at the north boundary of Black Mountain.”

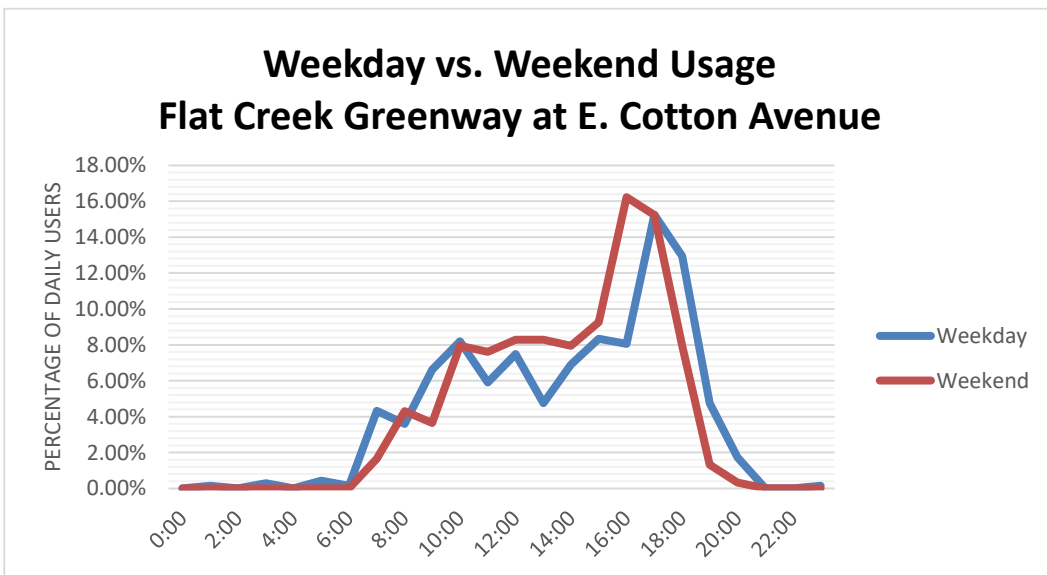
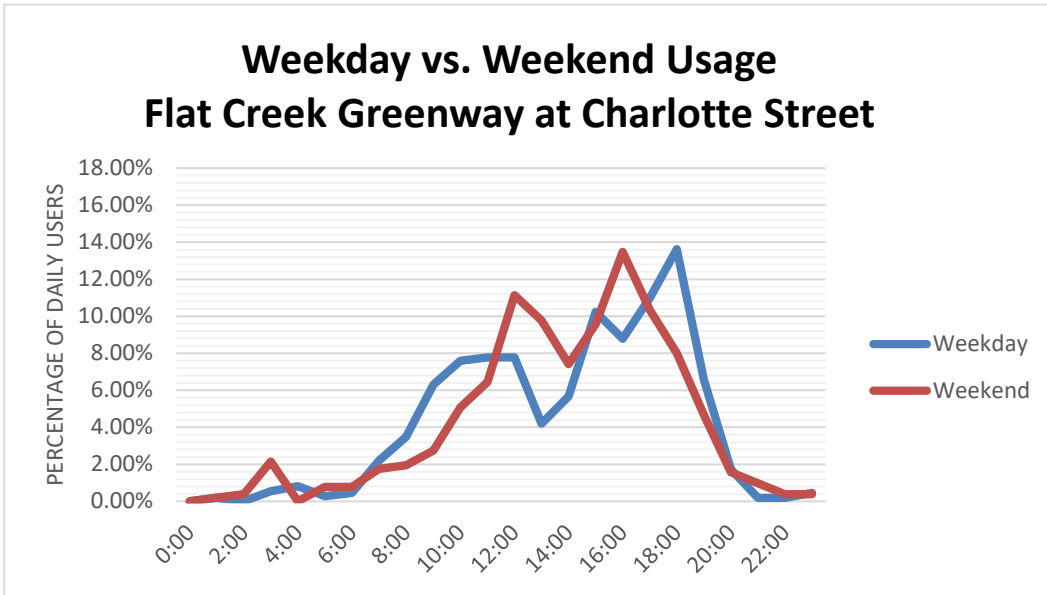
The next study is along the Into the Oaks trail, in Black Mountain.

Patterns of Use

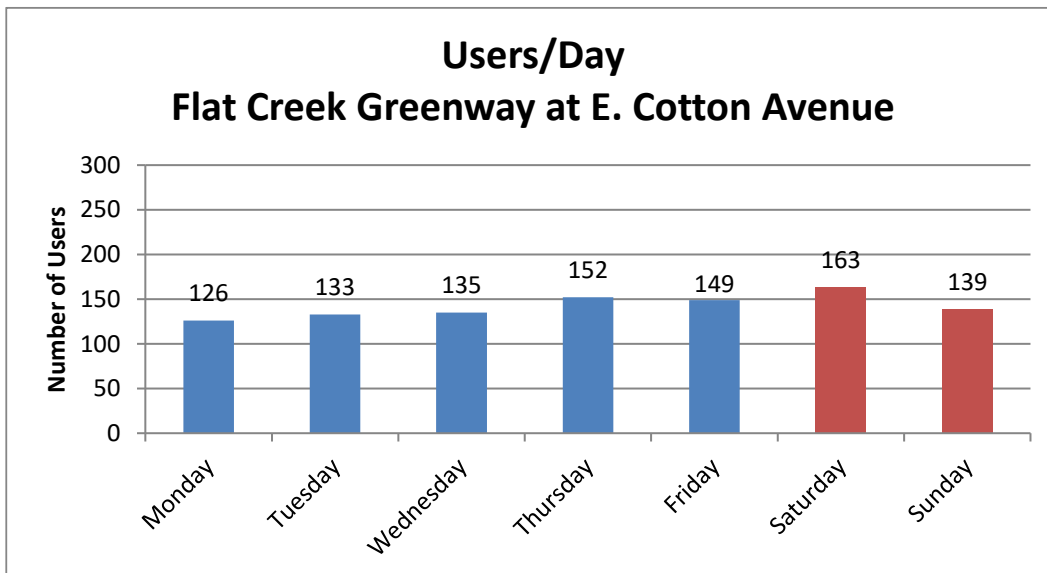
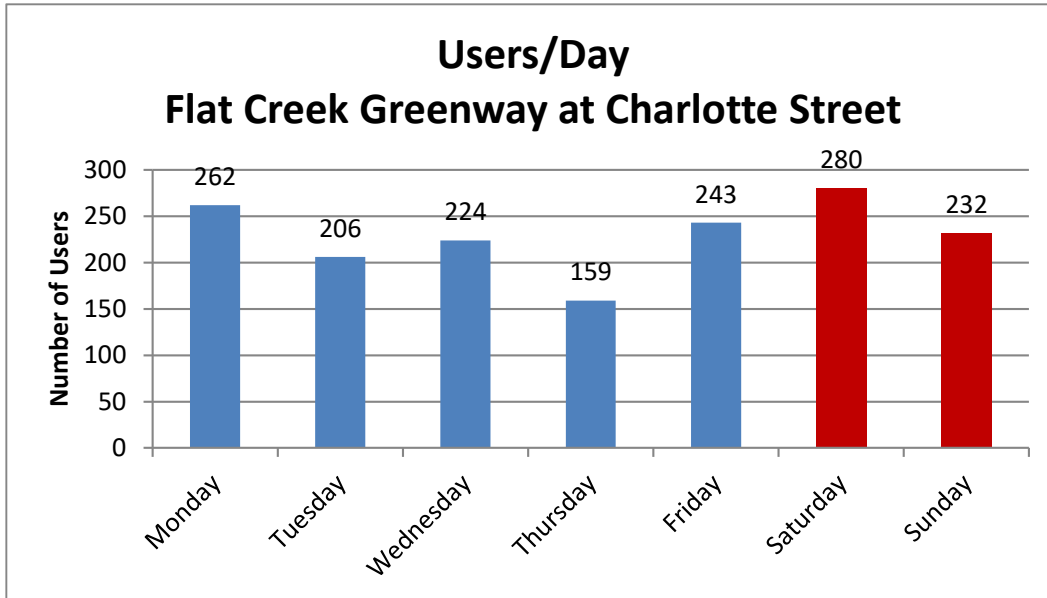
The following chart illustrates the average use of the sidewalk at the location.



The second chart illustrates the different pattern of usage between the weekday and weekend. The location at Charlotte Street had noticeable early Saturday Morning activity with eleven passersby during the 3 AM hour.



The third chart shows users/day. The southern location at Charlotte Street, near the school, had consistently more activity. The northern location, alongside the Cotton Creek Subdivision, had more consistent foot traffic, at a reduced volume. The weekly total at the south end was 1609 versus 997 at the northern end.



Notes:

Date	Minimum Temperature	Maximum Temperature	Average Temperature	Precipitation	Ave. Wind Speed
3/28/2024	41.5 °F	59.4 °F	48.8 °F	0.00 in	2.0 mph
3/29/2024	31.5 °F	65.5 °F	49.4 °F	0.00 in	1.4 mph
3/30/2024	33.3 °F	74.8 °F	54.8 °F	0.00 in	1.2 mph
3/31/2024	55.8 °F	80.8 °F	67.7 °F	0.00 in	1.6 mph
4/1/2024	52.0 °F	79.3 °F	65.8 °F	0.00 in	1.0 mph
4/2/2024	57.6 °F	83.7 °F	68.9 °F	0.00 in	1.1 mph
4/3/2024	42.6 °F	67.6 °F	56.1 °F	0.30 in	2.1 mph

<https://www.wunderground.com/dashboard/pws/KNCBLACK7/table/2024-03-4/2024-03-4/monthly>



RPO 01: Charlotte Street



RPO 02: Cotton Street

