



# Trail Counter Report

As of April 5, 2022



# Trail Counter Program

## Background

In early 2020, the Waltham Land Trust purchased a trail counter which uses **infrared light to count** how many people (and larger critters) pass by.

## Program Goals

The key goals of the trail counter program are to:

- **Bolster conservation efforts** with hard data on trail usage.
- Learn which areas of Waltham's trails **receive the most usage**.
- Understand daily and monthly usage patterns **to aid with event planning and stewardship**.

See [About the Trail Counter](#) for detailed info





# Counter Data Findings

9/1/2020 – 4/5/2022

# POPULAR DAYS 2020-2021



- The most popular dates of the year appear to be holiday weekends
- No 300+ visitor days happened after 5/9/2021 until 10/9/2021 event; none after that

Holiday	Date	Day	Count
	10/18/2020	Sunday	420
	11/21/2020	Saturday	353
Thanksgiving	11/27/2020	Friday	312
	11/28/2020	Saturday	336
	11/29/2020	Sunday	331
New Years	1/1/2021	Friday	374
	1/10/2021	Sunday	375
MLK Day	1/17/2021	Sunday	306
	1/18/2021	Monday	319
	3/21/2021	Sunday	343
	4/4/2021	Sunday	342
	5/9/2021	Sunday	325
	10/9/2021	Saturday	444



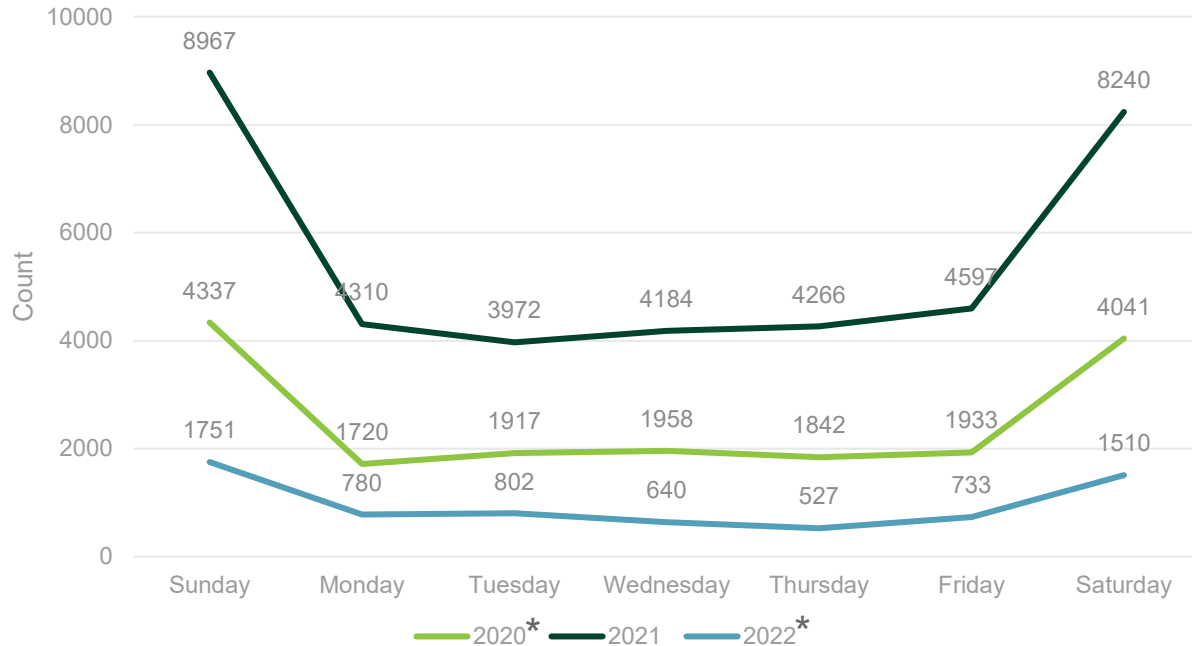
- The definition of “popular” changes to lower overall numbers in 2022

## POPULAR DAYS 2022

Holiday	Date	Day	Count
NYE	12/31/2021	Friday	148
	1/1/2022	Saturday	151
	1/8/2022	Saturday	206
1 <sup>st</sup> beautiful weekend	3/18/2022	Friday	190
	3/20/2022	Sunday	215

# Trail Counter Data 9/1/2020 to 4/5/2021 – Per Day by Year

Total Count per Day by Year



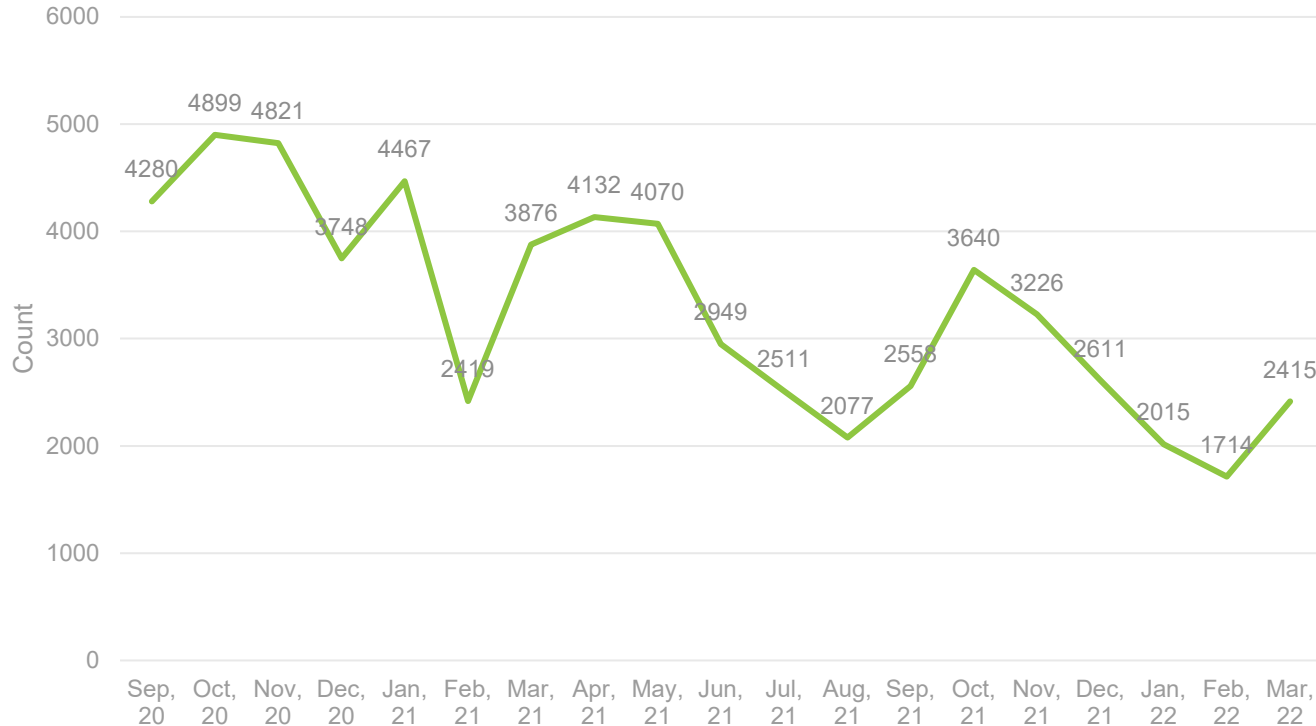
No change:

- Weekends continued to be the most popular
- *Slight* lift on Friday in 2021

\* 2020 only includes Sept-Dec; 2022 only includes Jan-Mar

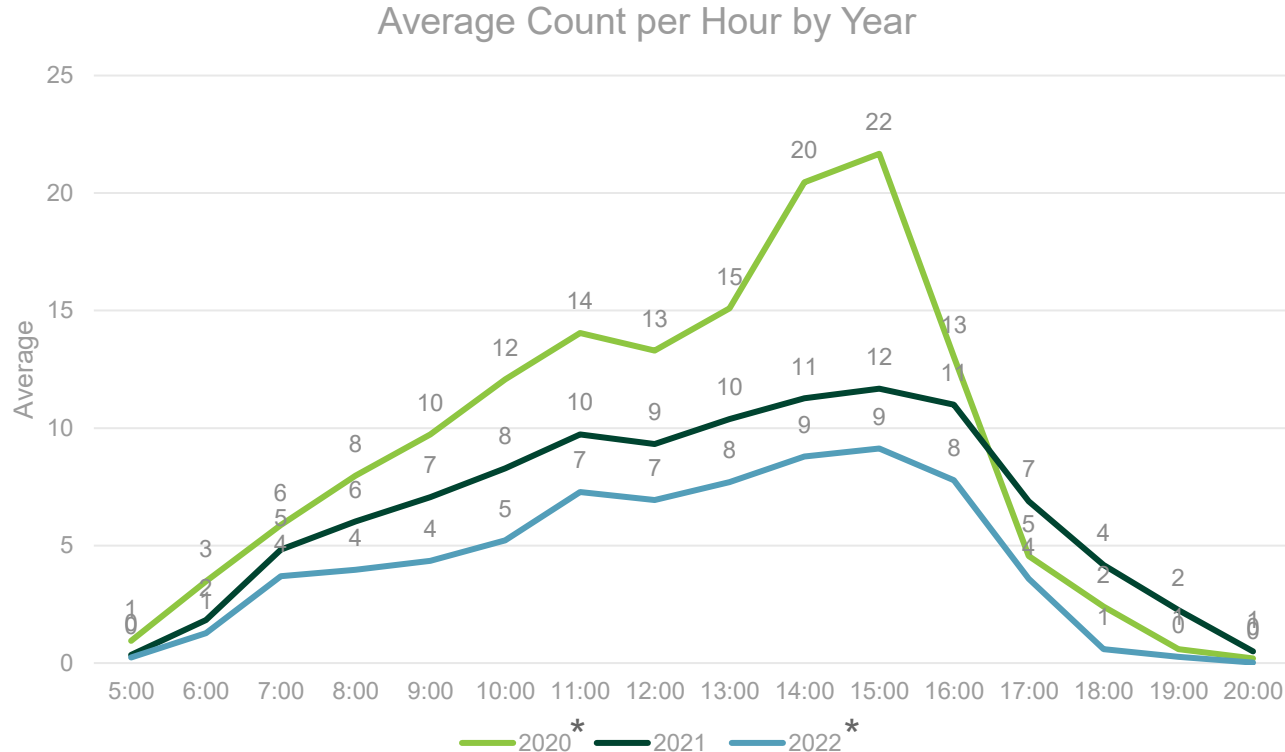
# Trail Counter Data 9/1/2020 to 3/31/2022 – Monthly Count

Total Count by Month



- Activity dropped in February (cold!) and throughout the Summer (skeeters!)
- October and November 2020 remains the highest usage
- January, April, and May had the highest usage in 2021

# Trail Counter Data 9/1/2020 to 4/5/2021 – Per Hour by Year

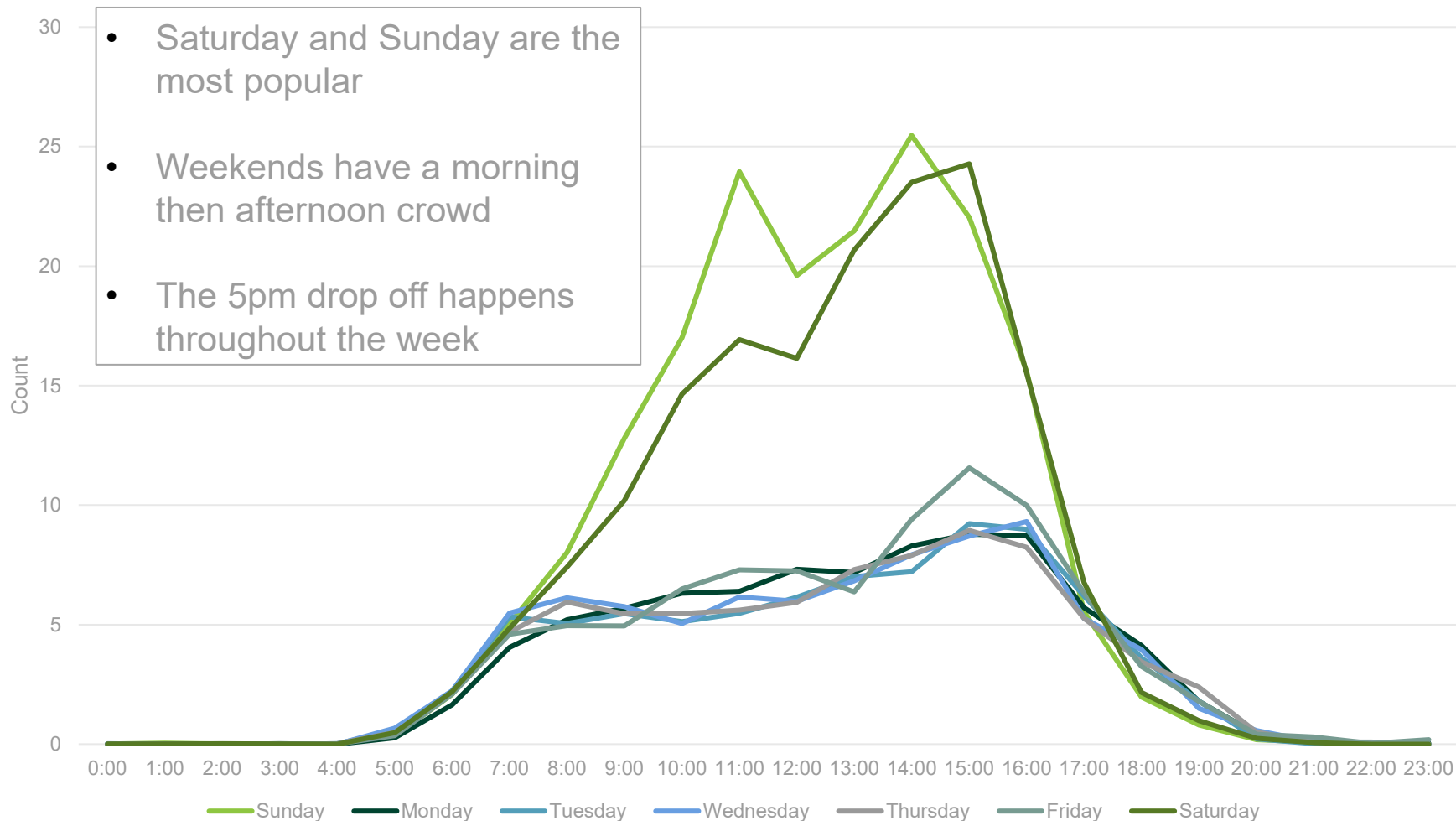


\* 2020 only includes Sept-Dec; 2022 only includes Jan-Mar

- 3pm appears to be the most popular time, with a drop-off at dinner time
- Slight 11am to noon drop-off is evident in each year
- This graph has remained consistent over time

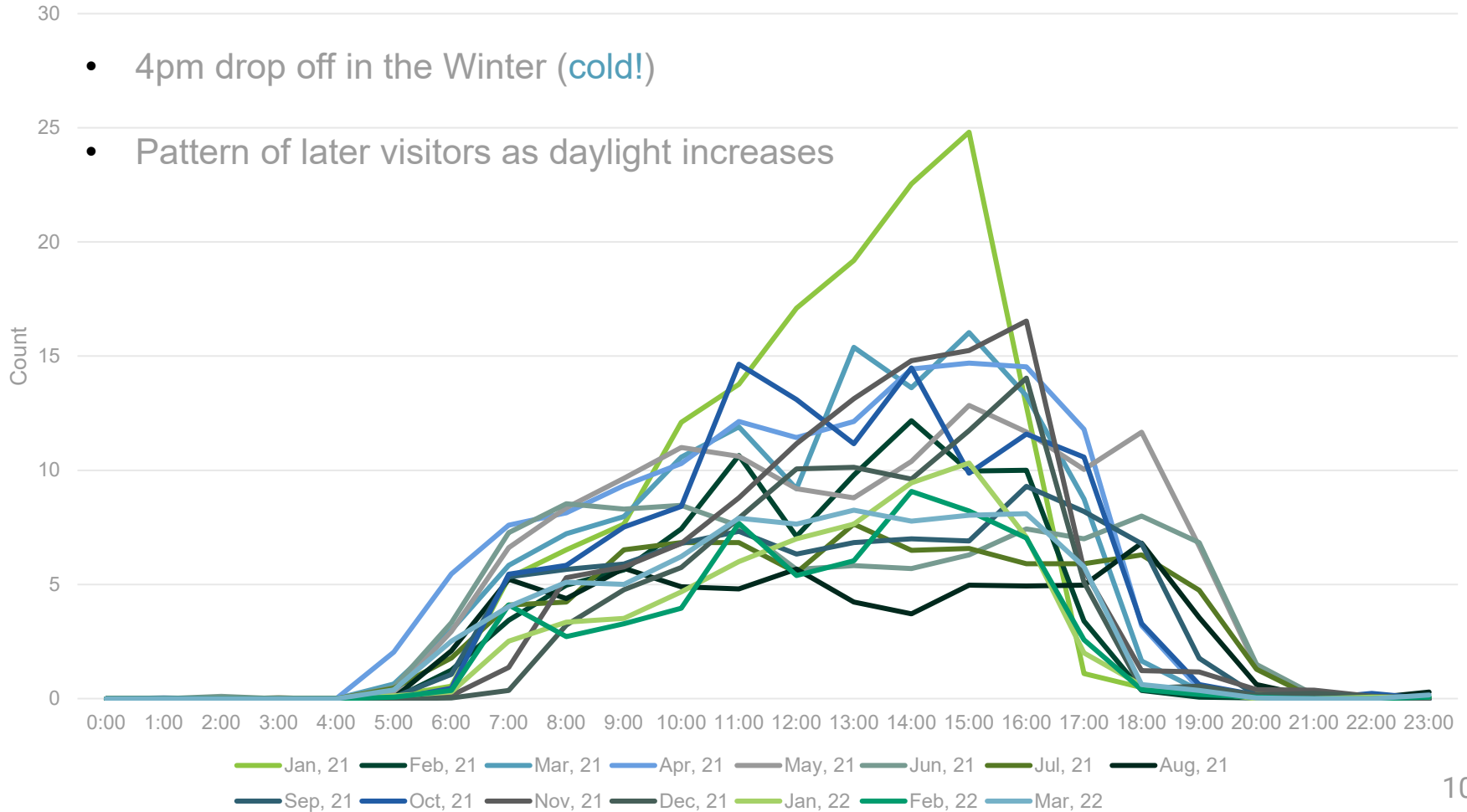


Average Count per Hour by Day



## Average Count per Hour by Month (Jan, 21 – Mar, 22)

- 4pm drop off in the Winter (cold!)
- Pattern of later visitors as daylight increases





# About the Trail Counter

How it works and where it is



## HOW IT WORKS

After looking at different options and emailing with people at other conservation organizations, including the Application Mountain Club, we decided the trail counter from **Trafx** would be our best option. It has two components:

Infrared Camera and Field Case



Docking Station



- The camera is installed in the field and uses infrared light to detect people who pass by **within 10 feet**.
- The docking station is used to collect data and **bring it back to a computer**.
- The docking station can **collect the data from multiple cameras**, so if we expand the program, only additional cameras are required.



## CAMERA LOCKBOX

To fend off vandals and other curious critters, we built a lockbox according to Trafx's guidance:

Sandwich bag to protect from water damage







## CAMERA LOCKBOX

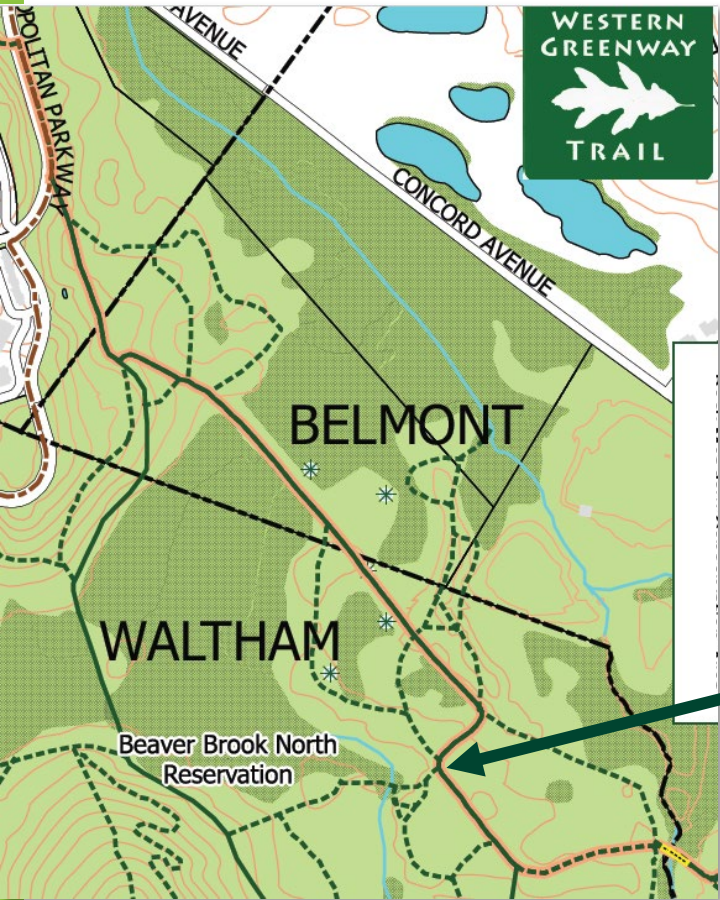
To fend off vandals and other curious critters, we built a lockbox according to Trafx's guidance:



A message on top to allay concerns



Obligatory picture of Shadow



## LOCATION

- The chosen location is at a crossroads between other trails and the Western Greenway
- The counter will capture people using the Greenway going to and from Rock Meadow