



Metro

# How to conduct trail counts



2019 Regional Trail Count:  
September 10th-12th, 5:00-7:00 p.m.  
September 14th-15th, 9:00-11:00 a.m.

# Why Count?

- ❑ Better understand the needs of the regional trail network
- ❑ Understand how we can enhance the use of trails
- ❑ Secure grant funding to increase opportunities and improve conditions for trail users
- ❑ Support the National Bicycle and Pedestrian Documentation Project ([www.bikepeddocumentation.org/](http://www.bikepeddocumentation.org/))





# Conducting “screenline” counts



## Screenline

- A screenline is an imaginary line across the trail.
- Count only people who cross the screenline.
- Count both directions of travel.
- A single person should be counted as many times as they cross the screenline.
- Don't track turn movements.
- Don't count intersecting roads or trails.

# Who to count

- **Bicyclists**
  - Count the number of people on the bike, not the number of bikes.
  - Count bicycle trailer passengers as bicyclists.
  - Count bicyclists who ride on the sidewalk (if your screenline crosses a sidewalk).
- **Pedestrians**
  - People walking, hiking and jogging
  - Children in strollers
- **Wheelchairs**
  - People in wheelchairs or other mobility devices
- **Others**
  - People using equipment such as e-scooters, skateboards, rollerblades, etc.
- **Do not count dogs or other pets**

# How do you count this?



# How do you count this?



5 Bicycles!



# How do you count this?



# How do you count this?



## 2 Bicycles!



# How do you count this?



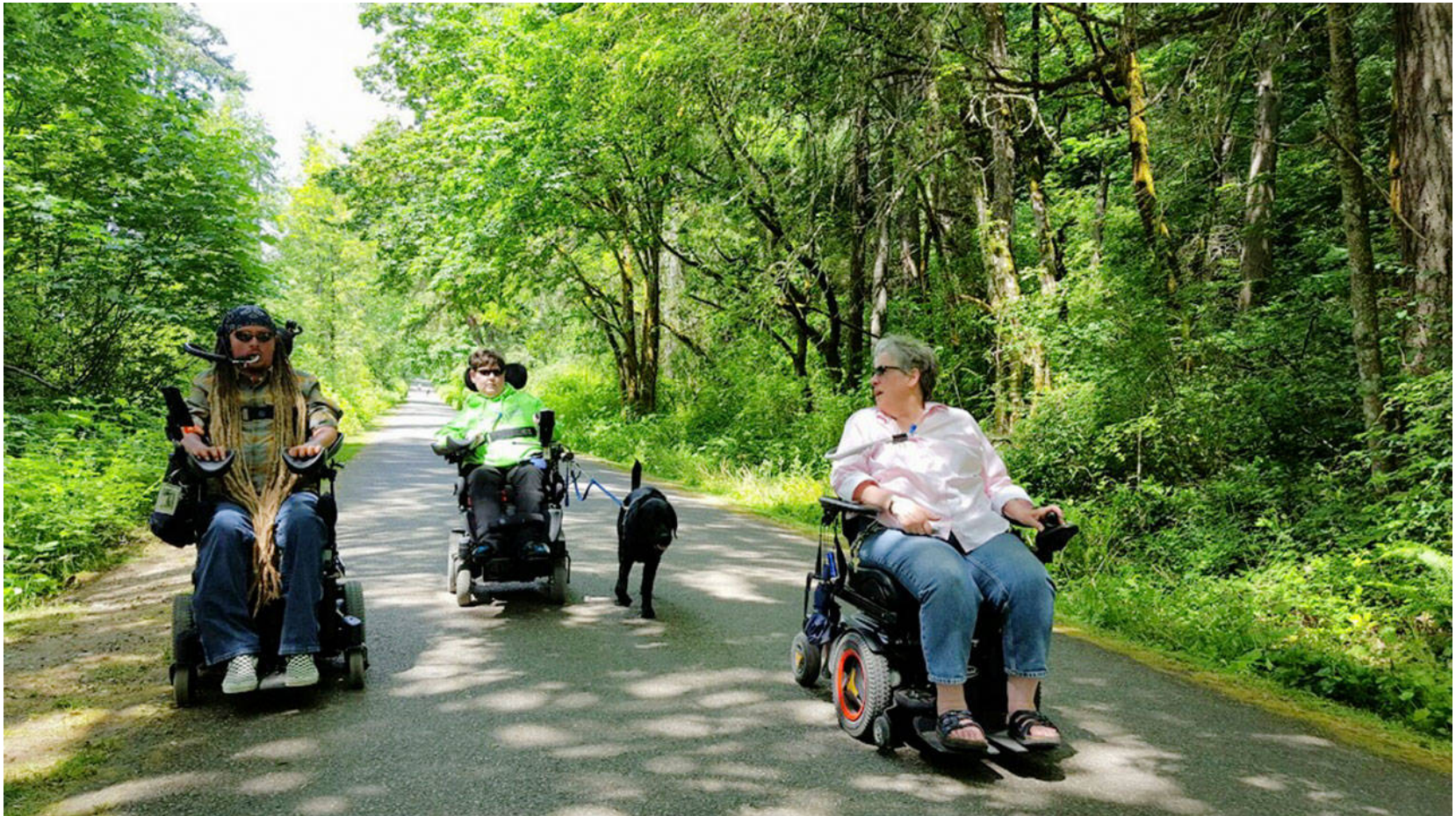
# How do you count this?



4 Pedestrians!



# How do you count this?





# How do you count this?



3 Wheelchairs!

# How do you count this?



# How do you count this?



3 Other!



# How do you count this?



# How do you count this?



2 Other!

# Items to bring

- ☐ Smart phone or tablet (if using app)
- ☐ Count form with location map\*
- ☐ Clipboard
- ☐ Pen or pencil and spare
- ☐ Watch or timer so you can record 15-minute intervals
- ☐ Optional: hat, safety vest, sunscreen, jacket, chair, snacks

*\*Your local count coordinator will assign you a site, and send you your count form*





# How to use the paper count form



## STANDARDIZED TRAIL COUNT FORM

Site ID: **650** Trail Name: **Willamette River Greenway Trail** Location: **George Rogers Park bridge**

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_ Time Period (circle one): Weekday 5-7 PM: Weekend 9-11 AM

Name of Data Collector: \_\_\_\_\_

Weather (circle one):

Good (50-90°, dry) Fair (light rain, <50°, 90-95°) Extreme (heavy rain, snow, freezing, >95°)

	Bicyclists		Pedestrians		Wheelchairs		Others (skateboards, rollerblades, scooters)	
	Female	Male	Female	Male	Female	Male	Female	Male
9:00-9:15 or 5:00-5:15								
9:15-9:30 or 5:15-5:30								
9:30-9:45 or 5:30-5:45								
9:45-10:00 or 5:45-6:00								
10:00-10:15 or 6:00-6:15								
10:15-10:30 or 6:15-6:30								
10:30-10:45 or 6:30-6:45								
10:45-11:00 or 6:45-7:00								
Total								

## STANDARDIZED TRAIL COUNT FORM

Site ID: **650** Trail Name: **Willamette River Greenway Trail** Location: **George Rogers Park bridge**

To can count via the web App, point your smart phone's web browser to <https://gis.oregonmetro.gov/trailcounter>

Only use the paper form or the App, not both

Count for two hours in 15-minute increments

Count every person that crosses your screenline.

Remember to count the number of people on the bicycle, not the number of bicycles.

Stroller passengers are counted as pedestrians, bicycle trailer passengers are counted as bicyclists



Notes:

# How to use the paper count form



## STANDARDIZED TRAIL COUNT FORM

Site ID: **447** Trail Name: **Burnt Bridge Creek Trail** Location: **Devine Trailhead across from railroad**

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_ Time Period (circle one): Weekday 5-7 PM; Weekend 9-11 AM

Name of Data Collector: \_\_\_\_\_

Weather (circle one):

Good (50-90°, dry)

Fair (light rain, <50°, 90-95°)





Extreme (heavy rain, snow, freezing, >95°)

Arrive at your site at least 5 minutes early and complete the top section of your form:

- Date
- Time Period you are counting (circle one)
- Your Name
- Weather

❖ **Make sure you are counting in the correct location!**

# How to use the paper count form

	Bicyclists	
	Female	Male
9:00-9:15 or 5:00-5:15	 8	 5
9:15-9:30 or 5:15-5:30	 6	 3
9:30-9:45 or 5:30-5:45		
9:45-10:00 or 5:45-6:00		

Record each trail user with a tick mark under the appropriate column.

Make a crosshatch for five counts.

Write the total for each cell.

Write totals for each column at the bottom of the form.

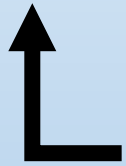
	Bicyclists		Pedestrians		Wheelchairs		Others (skateboards, rollerblades, scooters, etc.)	
	Female	Male	Female	Male	Female	Male	Female	Male
10:45-11:00 or 6:45-7:00								
Total	20	13	11	6	2	0	1	3



# How to use the counter app

Start here:

<https://gis.oregonmetro.gov/trailcounter>



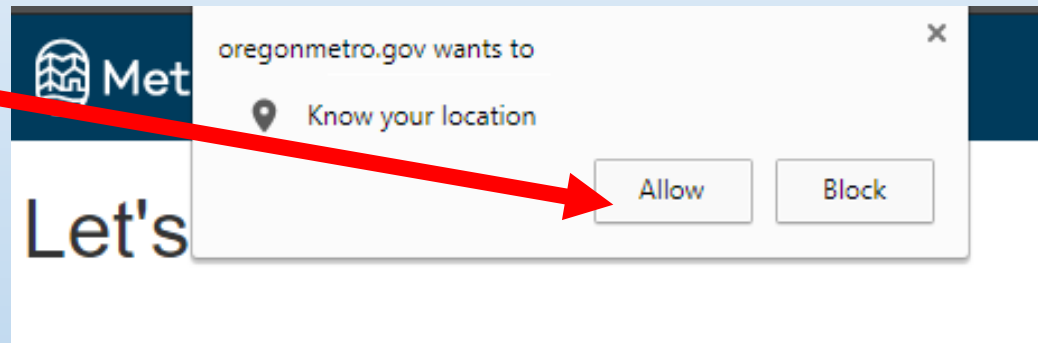
**MUST** use “**https**”, not “http”

Be sure to carry a paper count form as backup

## Step 1:

Allow GPS, if  
prompted

This allows  
Metro to verify  
your location.

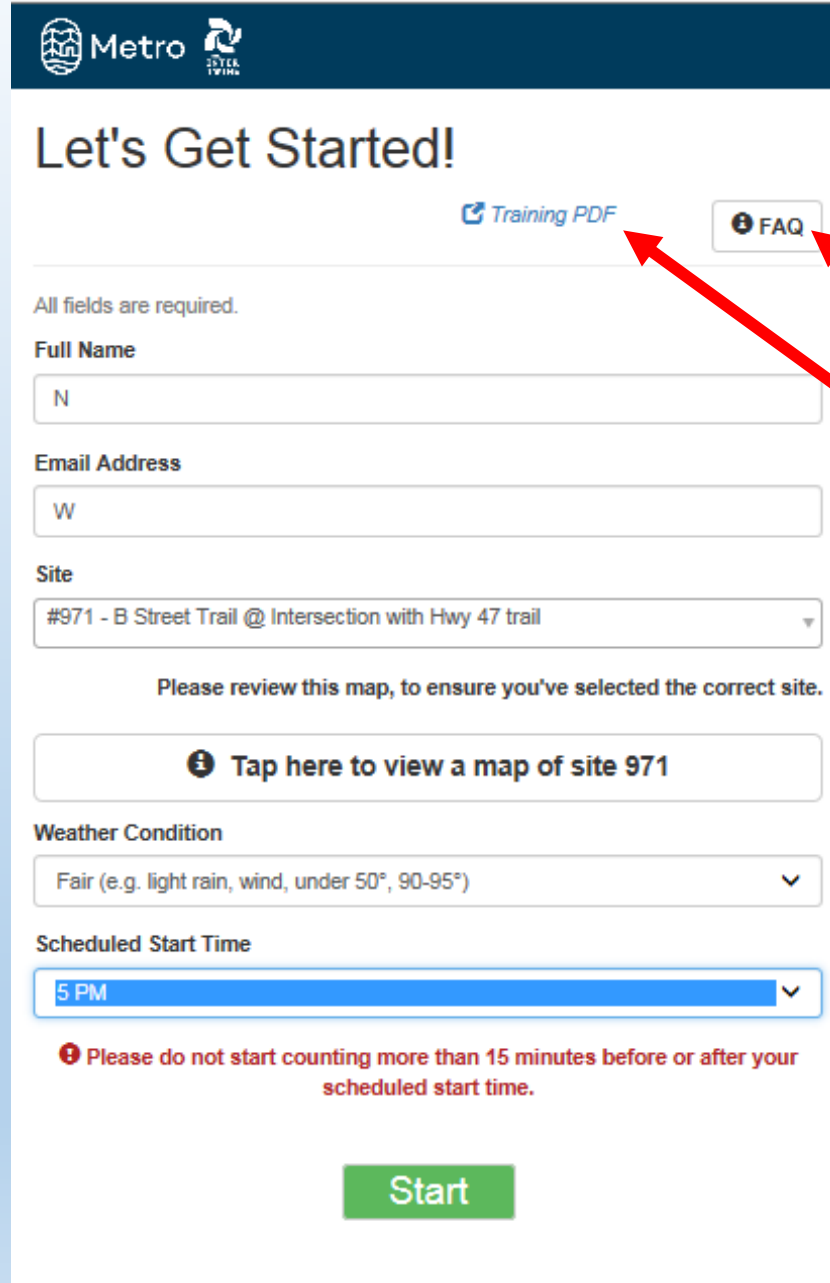


Once you exit  
the web app,  
Metro cannot  
track your  
location.

## Step 2:

Fill out your full name and email address.

**Do not enter two names in the name fields.** Only one person should create a count session, even if two or more people are working at the same site.



The screenshot shows a registration form titled "Let's Get Started!". At the top, there are logos for "Metro" and "JDEAL TWIN". Below the title, there are two links: "Training PDF" and "FAQ". Two red arrows point from the right side of the image to these links. The form itself has a header "All fields are required." and several input fields: "Full Name" (containing "N"), "Email Address" (containing "W"), and "Site" (a dropdown menu showing "#971 - B Street Trail @ Intersection with Hwy 47 trail"). Below the "Site" field is a button that says "Tap here to view a map of site 971". There are also dropdown menus for "Weather Condition" (showing "Fair (e.g. light rain, wind, under 50°, 90-95°)") and "Scheduled Start Time" (showing "5 PM"). At the bottom, there is a red warning message: "Please do not start counting more than 15 minutes before or after your scheduled start time." and a green "Start" button.

Let's Get Started!

[Training PDF](#) [FAQ](#)

All fields are required.

Full Name

N

Email Address

W

Site

#971 - B Street Trail @ Intersection with Hwy 47 trail

Please review this map, to ensure you've selected the correct site.

Tap here to view a map of site 971

Weather Condition

Fair (e.g. light rain, wind, under 50°, 90-95°)

Scheduled Start Time

5 PM

Please do not start counting more than 15 minutes before or after your scheduled start time.

Start

If you need a refresher on how to use the app, review the training PDF and/or the FAQ

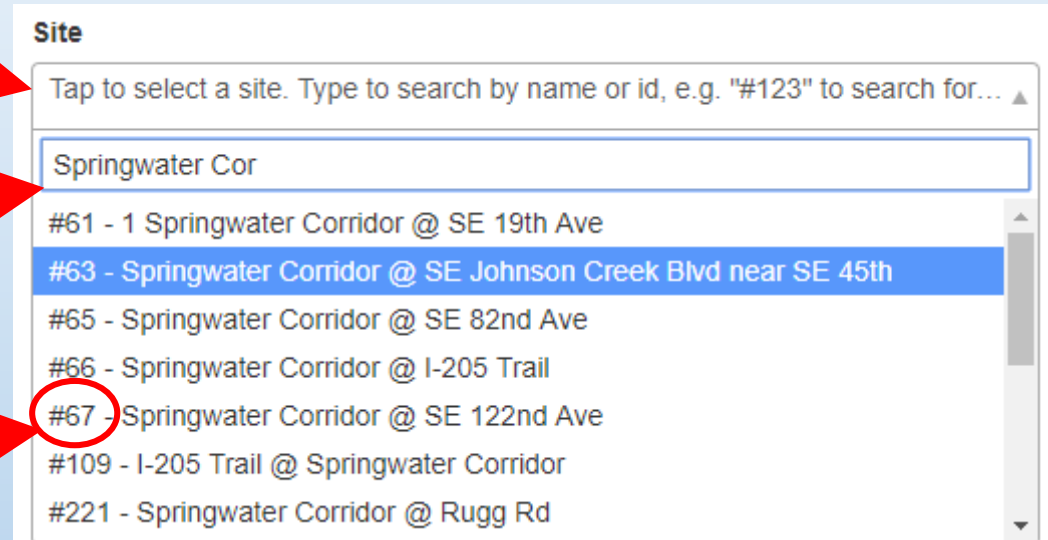


## Step 3:

Tap the “Site” box to select a site from the dropdown list

- Type to search by location description
- Use a hashtag # to search for a specific site ID, e.g. “#67”
- If you wish to practice ahead of the counts, use site “#999 – Practice Site”

Tap to select a site



The screenshot shows a mobile application interface for selecting a site. At the top, there is a header labeled "Site". Below it is a search bar with the placeholder text "Tap to select a site. Type to search by name or id, e.g. '#123' to search for...". Below the search bar is a dropdown list of site entries. The first entry is "Springwater Cor". The second entry is "#61 - 1 Springwater Corridor @ SE 19th Ave". The third entry is "#63 - Springwater Corridor @ SE Johnson Creek Blvd near SE 45th" and is highlighted in blue. The fourth entry is "#65 - Springwater Corridor @ SE 82nd Ave". The fifth entry is "#66 - Springwater Corridor @ I-205 Trail". The sixth entry is "#67 - Springwater Corridor @ SE 122nd Ave" and is circled in red. The seventh entry is "#109 - I-205 Trail @ Springwater Corridor". The eighth entry is "#221 - Springwater Corridor @ Rugg Rd".

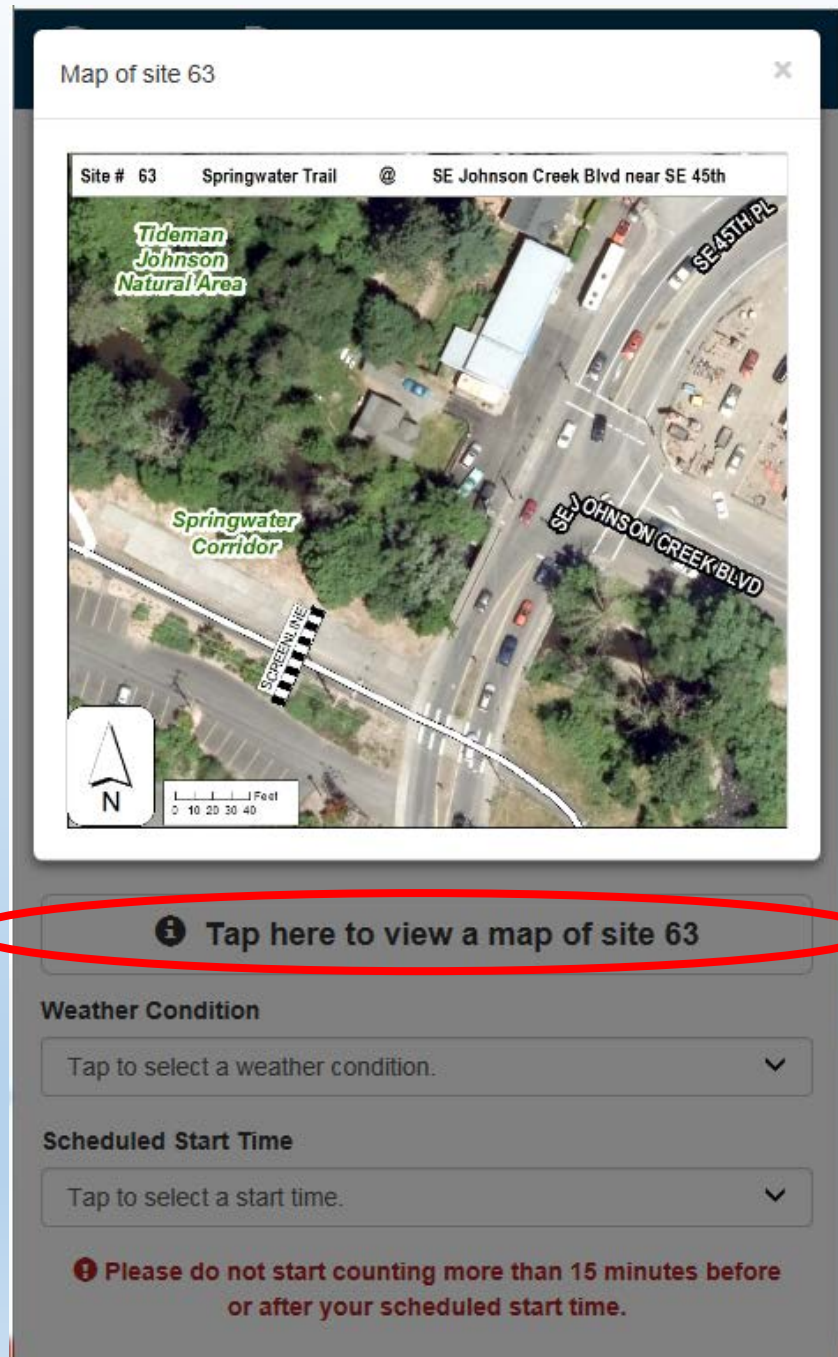
Site ID	Site Name
	Springwater Cor
#61	1 Springwater Corridor @ SE 19th Ave
#63	Springwater Corridor @ SE Johnson Creek Blvd near SE 45th
#65	Springwater Corridor @ SE 82nd Ave
#66	Springwater Corridor @ I-205 Trail
#67	Springwater Corridor @ SE 122nd Ave
#109	I-205 Trail @ Springwater Corridor
#221	Springwater Corridor @ Rugg Rd

## Step 4:

Tap the “i” rectangle below the Site dropdown to view a map of the count site

The map opens in a separate viewer, and you can scroll and zoom in if needed

Review the map to ensure you’re counting at the right screenline





## Step 5:

Select the weather condition and scheduled start time.

The start button will then be highlighted green.

\*Please do not start counting more than 15 minutes before or after your scheduled start time.

Tap Start.



# Let's Get Started!

[Training PDF](#)[FAQ](#)

All fields are required.

**Full Name**

**Email Address**

**Site**

Please review this map, to ensure you've selected the correct site.

**Tap here to view a map of site 971**

**Weather Condition**

**Scheduled Start Time**

**Please do not start counting more than 15 minutes before or after your scheduled start time.**

**Start**



## Step 6:









A two-hour timer shows how much time you have left in your count.

Tap the tiles to count your observations.

Hi, n. Thanks for volunteering!

Site: Springwater on the Willamette 8E Spokane St (#54)

1 hour and 58 minutes remaining

Female	Male
 Cyclist Female 0	 Cyclist Male 0
 Pedestrian Female 0	 Pedestrian Male 2
 Wheelchair Female 0	 Wheelchair Male 0
 Other Female 0	 Other Male 0

Finish Counting

A link to the FAQ is included if you need a refresher during the count

Hi, n. Thanks for volunteering!

Site: Springwater on the Willamette @ SE Spokane St (#54)

1 hour, 54 minutes and 8 seconds remaining

 Last 10 

Female



Cyclist Female

10



Pedestrian Female

4



C



Pedestrian Male

5

Last Ten Counts

12:10:13	Cyclist Male
12:10:12	Cyclist Male
12:10:12	Cyclist Male
12:10:11	Other Female
12:10:11	Other Female
12:10:11	Other Female
12:10:11	Other Female
12:10:11	Other Female
12:10:11	Other Female
12:10:11	Other Female
12:10:11	Other Female

You can tap  
“Last 10  
counts” to keep  
track of your  
most recent  
counts.

Hi, Joe. Thanks for volunteering!

Site: SW Willamette Greenway @ SW Richardson St at bronze beaver statue (#25)

1 hour, 58 minutes and 44 seconds remaining

Last 10

FAQ

Make Note

Enter a note about this count session in the box below:

A hoard of scooters came by and messed up my counts around 11:20am. They also stole my sandwich.

Submit

Female



Cyclist Female

1

Male



Cyclist Male

2



Pedestrian Female

3



Pedestrian Male

5

You can make notes during the count if you think there is something that the count coordinator should know about.

Make notes for anything unusual that affects your counts. Include as much detail as you can! You can make as many notes as needed.

Note Submitted







Thank you, your note has been submitted!

Close



## Step 7:

Once you've counted for two hours, tap "Finish Counting" to record your finish time and see count totals.

 <b>Pedestrian Female</b> <b>8</b>	 <b>Pedestrian Male</b> <b>9</b>
 <b>Wheelchair Female</b> <b>1</b>	 <b>Wheelchair Male</b> <b>0</b>
 <b>Other Female</b> <b>9</b>	 <b>Other Male</b> <b>5</b>
<b>Finish Counting</b>	



# Finish screen

Counts cannot be deleted,  
but they can be edited.

If you have no edits to make,  
you're done!

If you do have edits to make,  
you have two options (next  
slide).

If you make edits, **do not**  
write down counts on paper  
already made through the  
app.



## Finished! Here are your count totals.

Cyclist Female	15
Pedestrian Female	8
Wheelchair Female	1
Other Female	9
Cyclist Male	10
Pedestrian Male	9
Wheelchair Male	0
Other Male	5
Total Female	33
Total Male	24
Total Count	57

Need to make a few corrections?  
[Tap here to edit your counts](#)

## Thank you for volunteering!

New Count Session

# Editing Counts

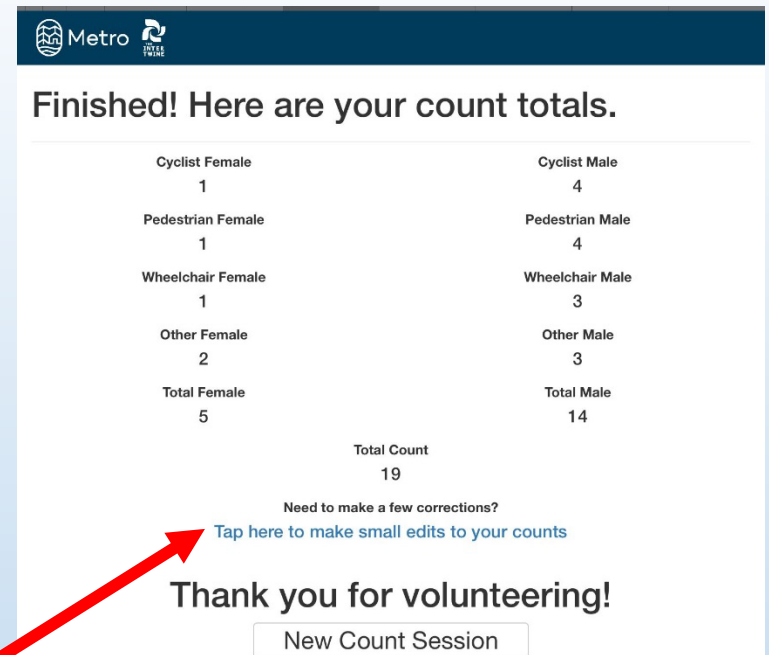
- If you accidentally counted the wrong trail user, make a note of the mistake on your backup paper form and the 15-minute interval it occurred in.

- Option 1:

- Don't tap again for the next user of same type/gender
- Tap the correct tile to record the missed trail user

- Option 2:

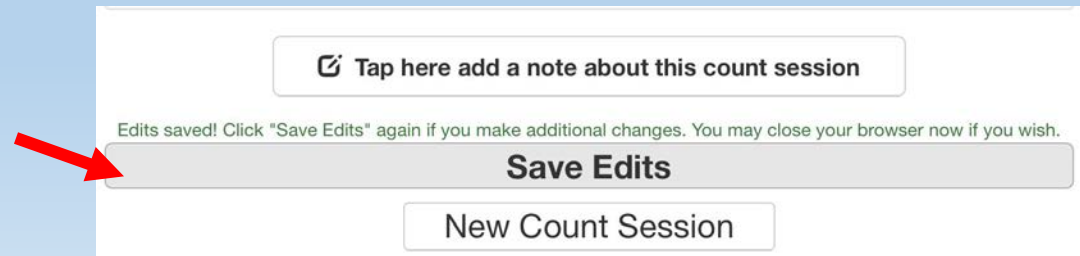
- At the end of the count, click the editing feature to add/subtract counts
- Find the 15 minute interval(s) you need to edit and adjust the amounts.
- Make sure to click "Save Edits"



The screenshot shows the Metro app interface with the title "Finished! Here are your count totals." Below the title is a table of counts:

Cyclist Female	1	Cyclist Male	4
Pedestrian Female	1	Pedestrian Male	4
Wheelchair Female	1	Wheelchair Male	3
Other Female	2	Other Male	3
Total Female	5	Total Male	14
Total Count		19	

Below the table, it says "Need to make a few corrections?" followed by a link: "Tap here to make small edits to your counts". Below this is the text "Thank you for volunteering!" and a button labeled "New Count Session". A red arrow points from the "Tap here to make small edits to your counts" link to the "Save Edits" button in the bottom screenshot.



The screenshot shows the bottom of the Metro app interface. At the top is a button with a pencil icon and the text "Tap here add a note about this count session". Below this is a green message: "Edits saved! Click 'Save Edits' again if you make additional changes. You may close your browser now if you wish." Below the message is a large button labeled "Save Edits". At the bottom is a button labeled "New Count Session". A red arrow points from the "Save Edits" button to the "Save Edits" button in the top screenshot.



# Editing Counts

- You can also add notes at the end of a count
- Click the submit button to save your note
- Click “Save Edits” to save your notes and any other edits

Wheelchair Male - 0 +

Other Female - 0 +

Other Male - 0 +

Tap here to add a note

Add additional notes to this count session in the box below:

Here is my note||

Submit

Save Edits

New Count Session

Wheelchair Male - 0 +

Other Female - 0 +

Other Male - 0 +

Tap here to add a note

Note Submitted x

You've added a note.  
Remember to click "Save Edits" below when you're done!

Close

Save Edits

New Count Session

# End of Counts

- If you utilized the paper count or survey forms, please send the forms to your local coordinator for data entry.



# Questions?

**For trail count volunteer questions, contact:**

Diego Gioseffi

[Diego.Gioseffi@oregonmetro.gov](mailto:Diego.Gioseffi@oregonmetro.gov)

503-568-2116



**Metro**

Arts and events  
Garbage and recycling  
Land and transportation  
Oregon Zoo  
Parks and nature

**oregonmetro.gov**



# Thank you for your participation!

## oregonmetro.gov

**Photos:**

<https://www.yelp.com/biz/kerr-bikes-portland>

<http://www.columbian.com/news/2015/sep/12/portland-opens-unique-bike-pedestrian-friendly-bridge-2/>

<http://www.oregonmetro.gov/metro-parks-and-natural-areas>

<http://buzzive.com/awesome-cops/>

<http://www.bainbridgereview.com/news/island-wheelchair-user-hits-the-trail-for-a-good-cause/>

<https://techcrunch.com/2018/07/26/bird-and-skip-portland-scooter-permits/>

