

Conducting Screenline Counts



11th Annual Regional Trail Count:

Sept. 11-13, 5-7 p.m.

Sept. 15-16, 9-11 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 better conditions for trail users
- ❑ Support the National Bicycle and Pedestrian Documentation Project (www.bikepeddocumentation.org/)




Items to Bring

If using the counter app:

- Smart phone or tablet (if using app)
- Count form with location map (if using paper)
- Survey forms
- 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 and survey forms**



Screenline Count

 Screenline

- Count only those people who completely cross the screenline
- Count people moving in both directions
- A single person can be counted more than once
- Don't track turn movements: just times crossing the screenline



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:

Data Input

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°)



❖ Using the form report the





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

❖ Make sure you are counting in the correct location!

Trail users

- **Bicycles**
 - Count the number of people on the bike, not the number of bikes
 - Bicycle trailer passengers are counted as bicyclists
 - Count bicyclists who ride on the sidewalk (if your screenline crosses a sidewalk)
- **Pedestrians**
 - People walking
 - Children in strollers
- **Wheelchairs**
 - People in wheelchairs, motorized carts, or other mobility devices
- **Others**
 - People using equipment such as e-scooters, skateboards, rollerblades, etc.

Data Input

	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		

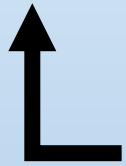
- Each trail user is recorded with a tick-mark under the appropriate column
- Add a cross hatch for five-counts
- Add total counts for each count cell
- Totals for each column are summed at the bottom of the form.

	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

Counter app

Start here:

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



MUST use “**https**”, not “http”

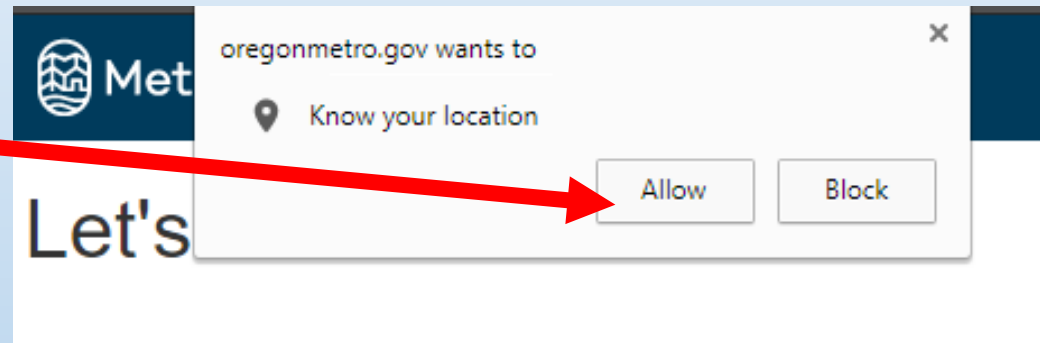
* Even if you use the app, make sure to carry a paper form as backup

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.

 Metro STEEL TWIN

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](#)

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

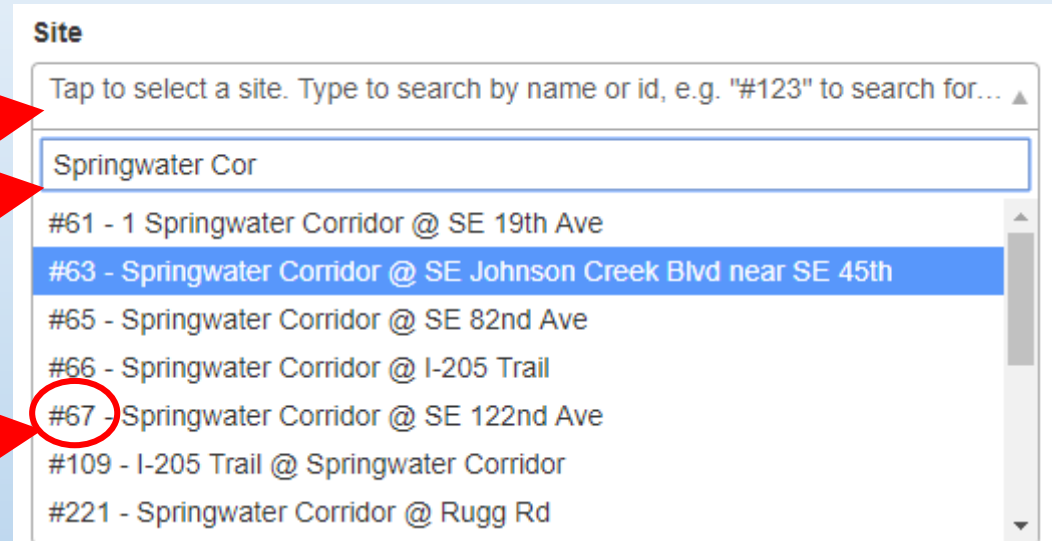
Step 3:

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

- Type to search by location description
- Use a hashtag # to search for a specific site ID.
E.g. “#67”

- If you use practice ahead of the counts, use site “#999 – Practice Site”

Tap to select a site

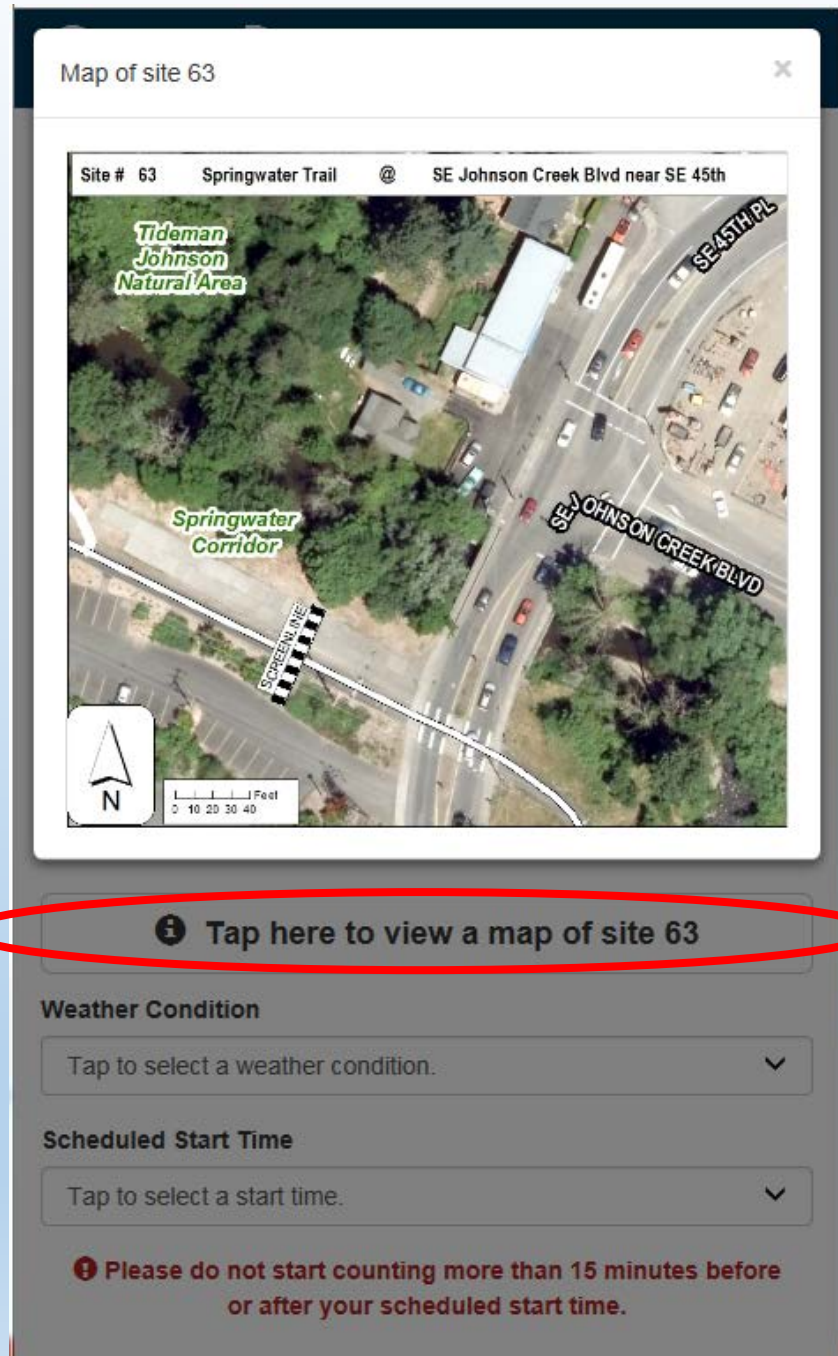


Step 4:

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 a weather condition and scheduled start time.

When properly completed, the start button will be highlighted green.

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

Tap Start.

The screenshot shows a registration form on the Metro website. At the top, there are logos for Metro and the 25th Anniversary (1974-2019). The main heading is "Let's Get Started!". There are links for "Training PDF" and "FAQ". A note states "All fields are required." The form includes the following fields: "Full Name" (containing "N"), "Email Address" (containing "W"), "Site" (a dropdown menu showing "#971 - B Street Trail @ Intersection with Hwy 47 trail"), a button to "Tap here to view a map of site 971", "Weather Condition" (a dropdown menu showing "Fair (e.g. light rain, wind, under 50°, 90-95°)"), and "Scheduled Start Time" (a dropdown menu showing "5 PM"). A red warning message at the bottom reads: "Please do not start counting more than 15 minutes before or after your scheduled start time." The "Start" button at the bottom is highlighted in green and circled in red. Two red arrows point from the text on the left to the "Weather Condition" and "Scheduled Start Time" dropdown menus.

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

Make Note Last 10 FAQ

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

FAQ

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.

A note window opens for you to make your note. Make sure to click submit when done. You can make as many notes as needed.

Note Submitted

Thank you, your note has been submitted!

Close

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


Step 7:

When you're all finished counting, tap "Finish Counting" to record your finish time and see count totals.



Pedestrian Female

8




Pedestrian Male

9




Wheelchair Female

1




Wheelchair Male

0



Other Female

9



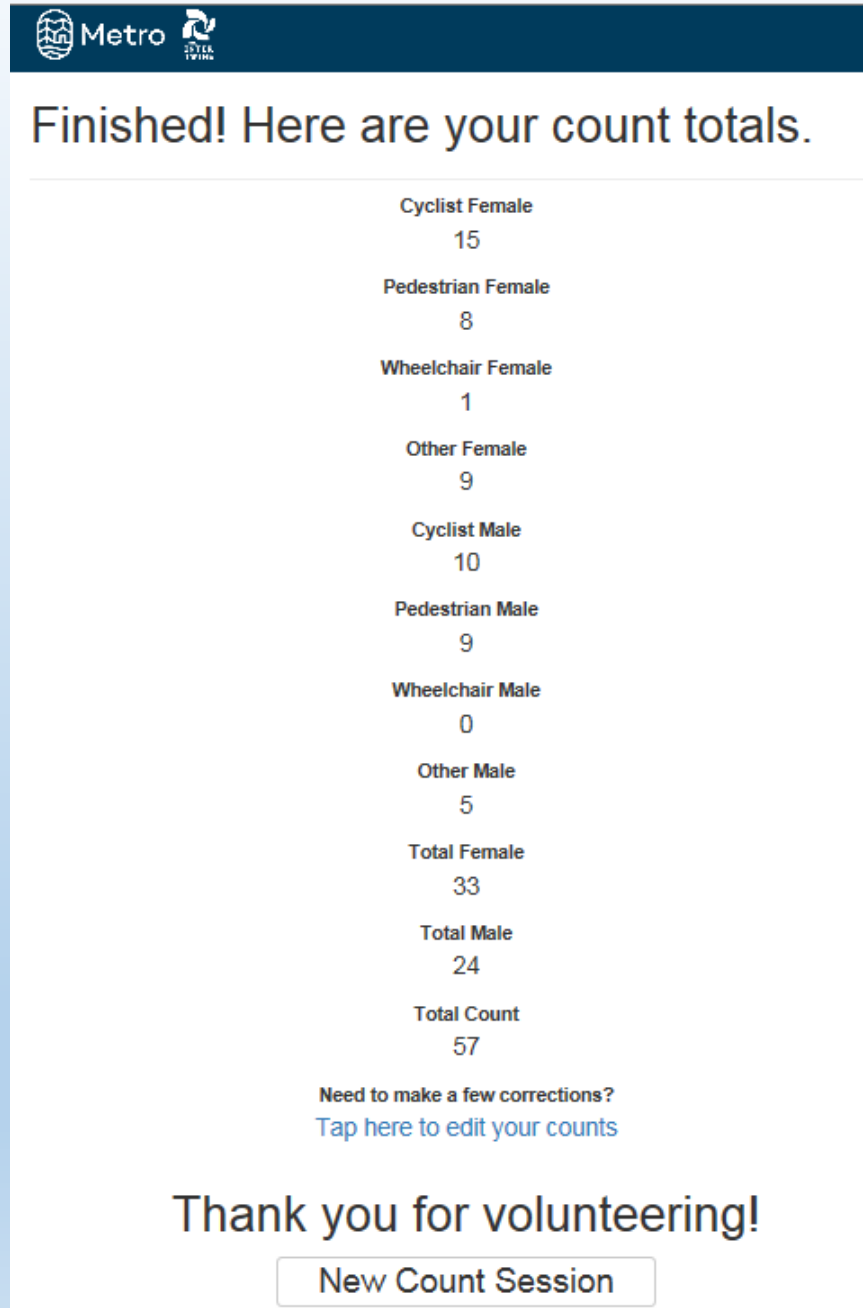
Other Male

5

Finish Counting

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 do 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"

Metro INTER TOWN

Finished! Here are your count totals.

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

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

Thank you for volunteering!

New Count Session

Metro INTER TOWN

Edit your counts below.
You can only change a 15-interval count value by +/- 100.

Important! Click "Save Edits" at the bottom when you are done revising your counts and adding additional notes.

0:00 - 0:15

Cyclist Female	-	0	+
Cyclist Male	-	0	+

[Tap here add a note about this count session](#)

Edits saved! Click "Save Edits" again if you make additional changes. You may close your browser now if you wish.



Save Edits

New Count Session

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 you made

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: x


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

What do I do if I over-count?

- Review the “Editing Counts” slide
 - 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
 - The two hour count is broken into 15 minute intervals, so find the interval you need to edit and adjust the amounts.

What happens if I enter the wrong site?

- Continue to use that site number, but be sure to make a note using the “Make Note” feature” of the site you used and the site you were supposed to be at. Make sure to also report this to your local coordinator at the end of the count.

I need to leave early, can I start/stop counting early?

- A two hour count within the given hours is required for our standardized methodology
- If there is an emergency, you feel unsafe, or have to leave for any reason we ask that you add a note explaining this using the “Make Note” feature, and notify your local coordinator afterwards

I'm late to my shift. Can I still count?

- If you do count late, select the time you were supposed to start
 - Ex. if you signed up for a 5pm shift, select "5 PM".
- If you are within 15 minutes of the scheduled start time, please stay for the full two hours, even if you started late.
 - Ex. if you started counting at 5:09 PM, count until 7:09 PM.
- **However, please do not count more than 15 minutes before or after your scheduled start time!**

Trail users



How do you count this?



How do you count this?



4 Bicycles!

How do you count this?

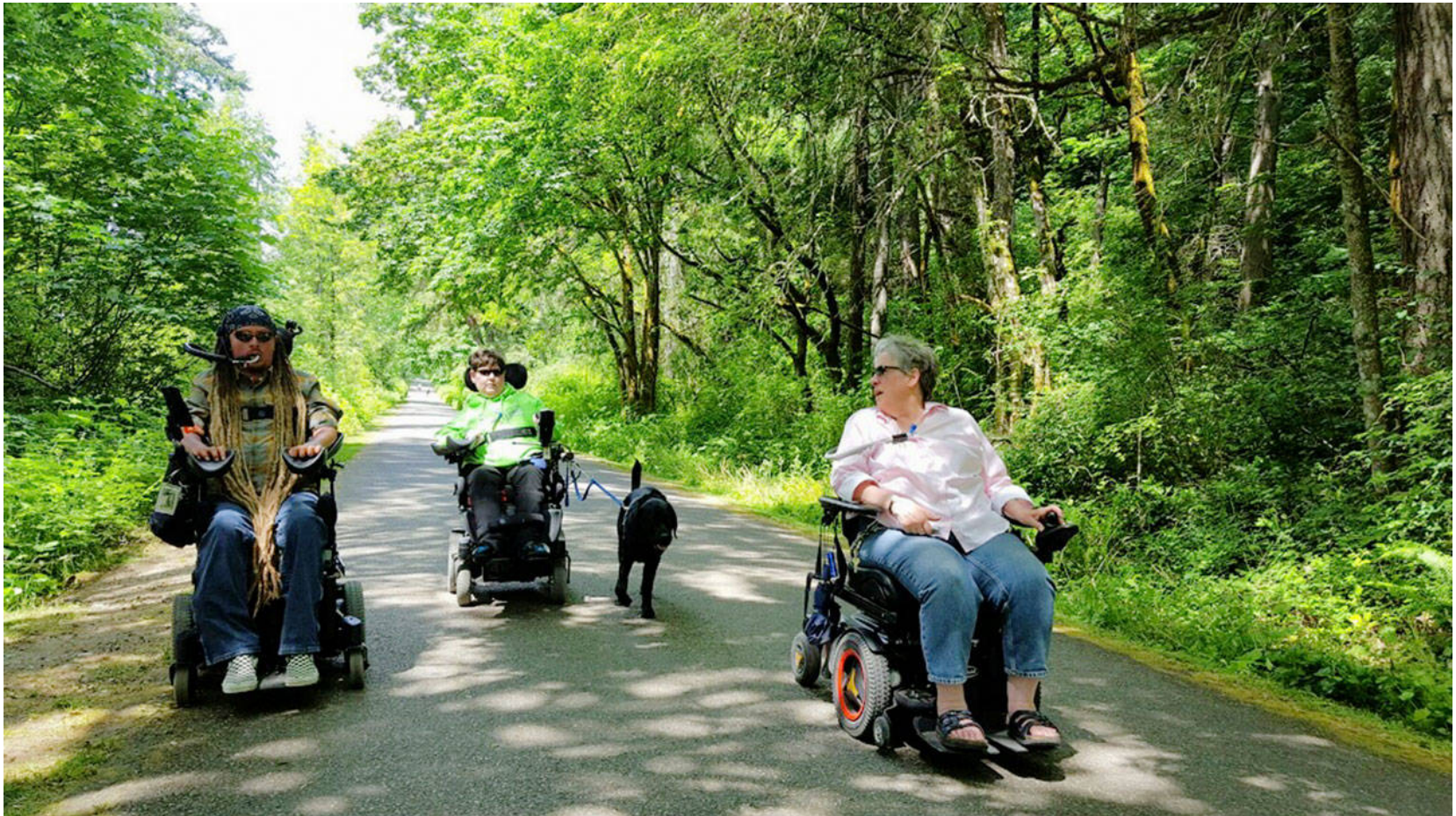


How do you count this?



5 Bicycles!

How do you count this?



How do you count this?



3 Wheelchairs!

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 Other!

How do you count this?

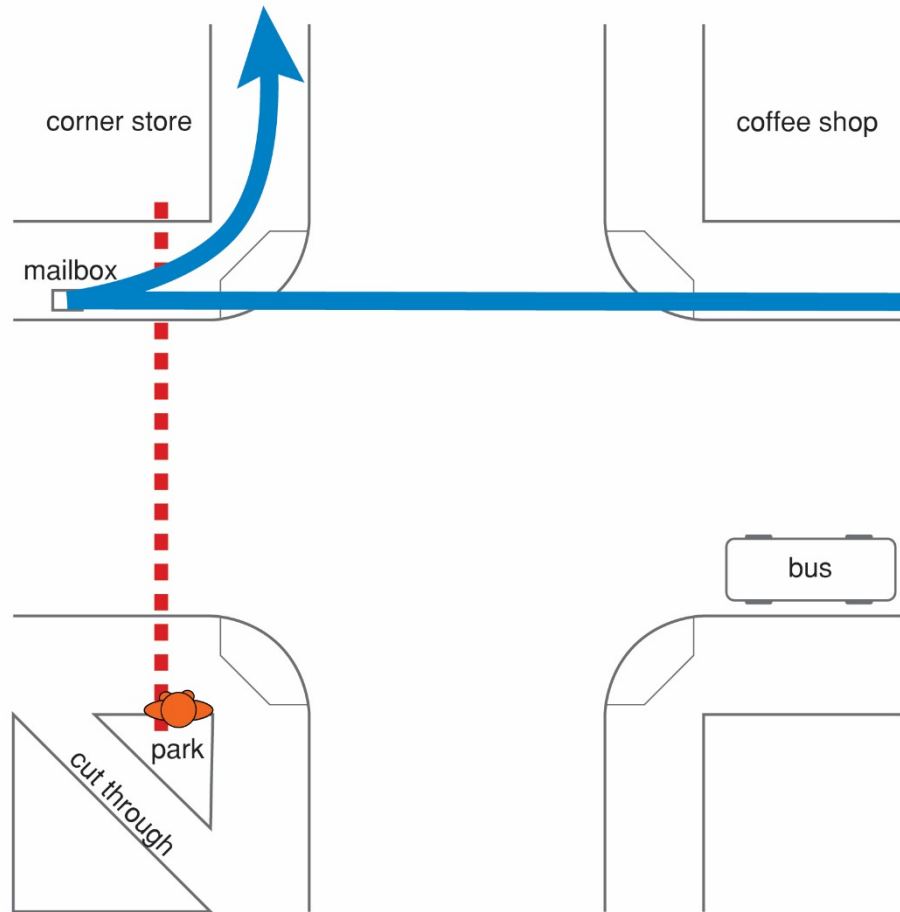


How do you count this?

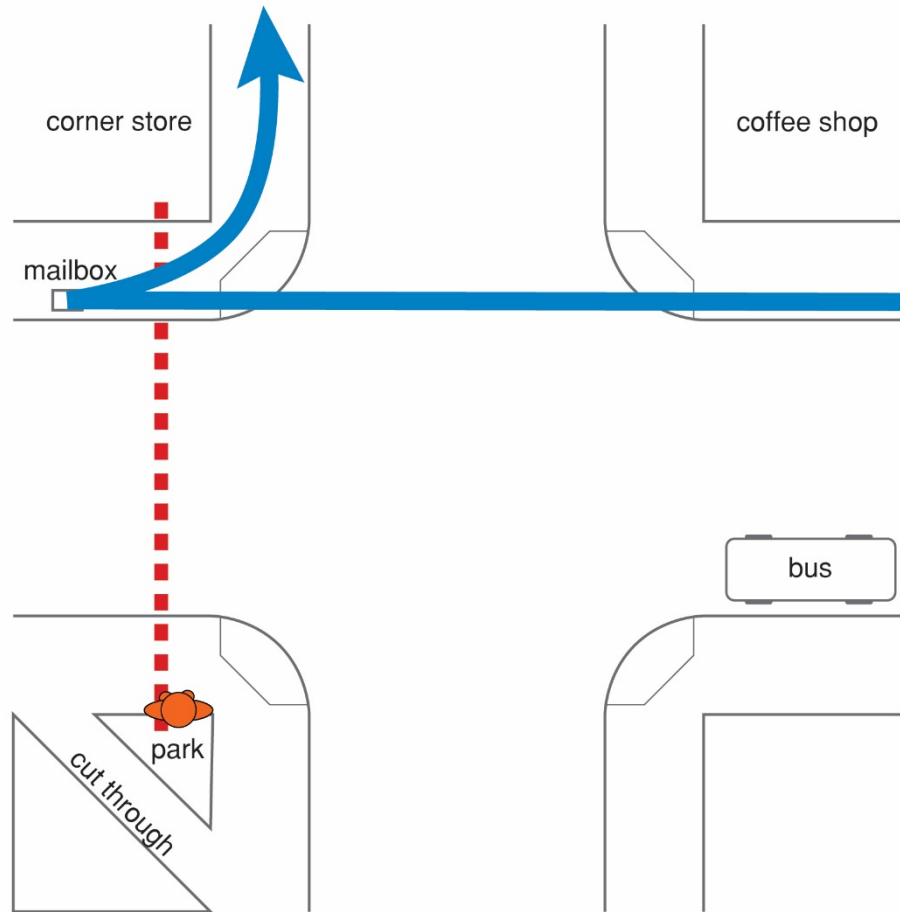


2 Other!

How do you count this?

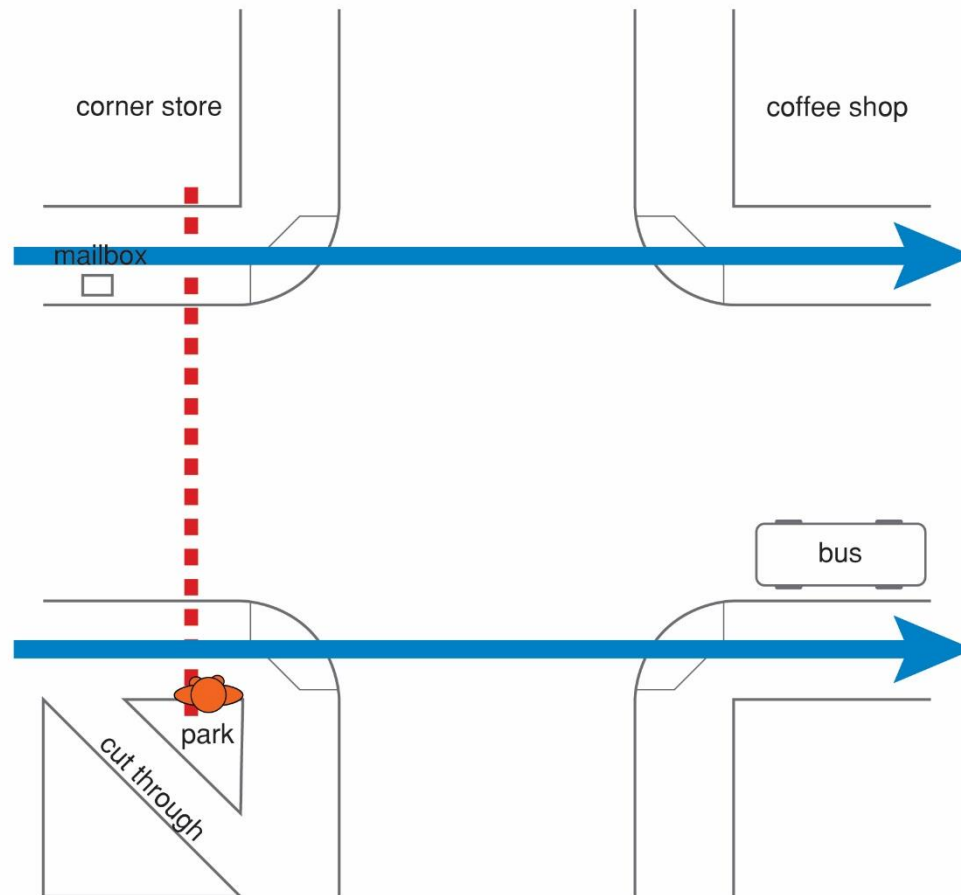


How do you count this?

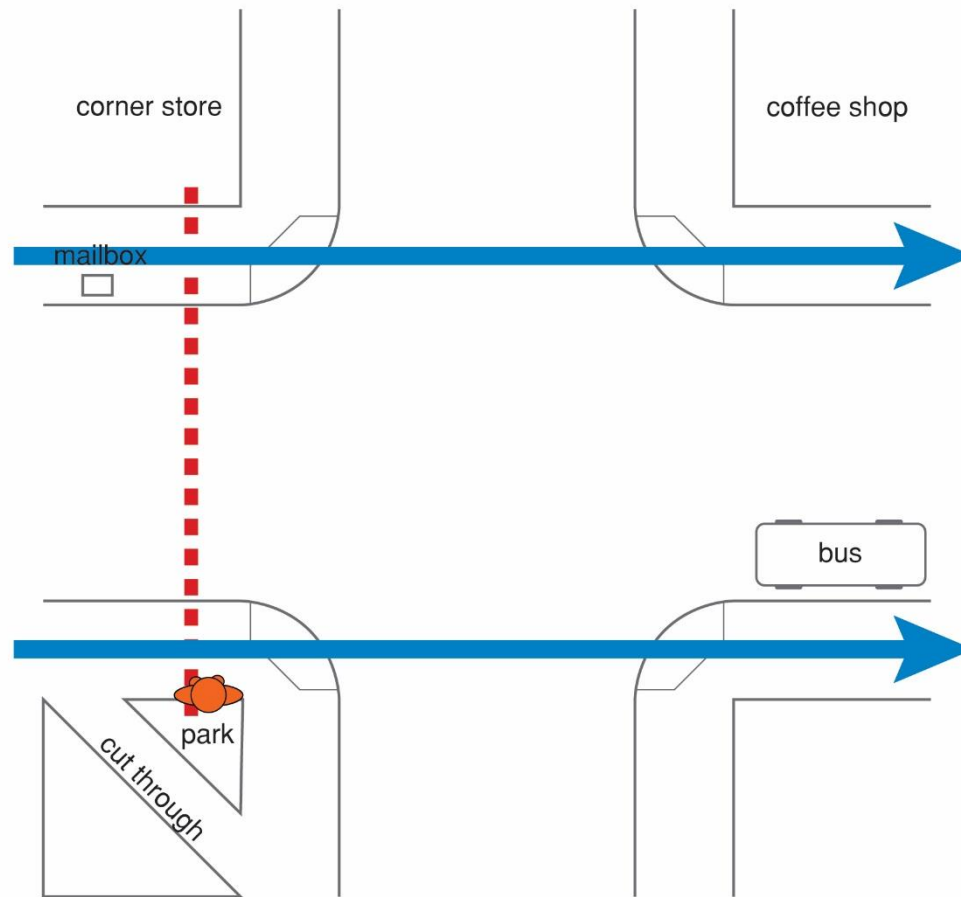


2!

How do you count this?



How do you count this?



2!

Intercept surveys

- Why people are using the trails, modes of travel, duration of use, seasonality of use, demographics
- Surveys should occur during the counts
- 12 questions
- Surveys take less than 3 minutes to complete
- Our goal is to get 20 completed surveys for each site!



Paper surveys

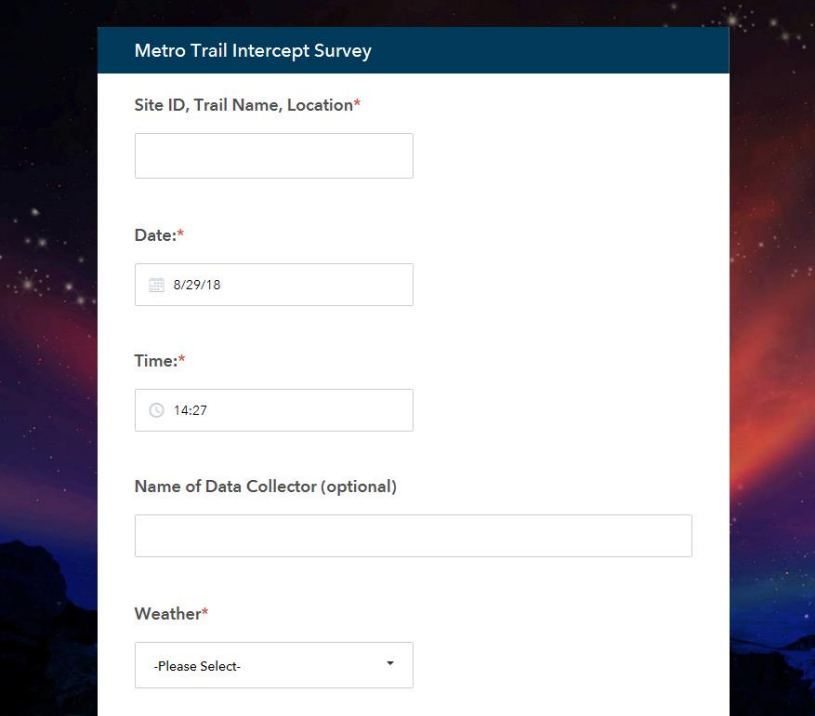
- [Link to Paper survey](#): Under the “Materials” section
- Make sure volunteers have multiple copies of the paper survey sufficient to the busyness of their site
- Grab some today!

To be completed by data collector	STANDARDIZED TRAIL SURVEY
Site ID: _____ Trail Name: _____ Location: _____	
Date: ____/____/____ Time: ____:____ Name of Data Collector: _____	
Weather (circle one): Good (50-90°) Fair (light rain, <50°, 90-95°) Extreme (heavy rain, snow, freezing, >95°)	
Notes: _____	

<p>1. What best describes why you are out here today?</p> <p><input type="checkbox"/> For pleasure / exercising / recreation (a)</p> <p><input type="checkbox"/> Going to/from work or school (b)</p> <p><input type="checkbox"/> Shopping, doing errands, visiting friends (c)</p>	<p>8. What is your home zip code? _____</p>
<p>2. What are you doing on the trail right now?</p> <p><input type="checkbox"/> Walking (a)</p> <p><input type="checkbox"/> Biking (b)</p> <p><input type="checkbox"/> Running / Jogging (c)</p> <p><input type="checkbox"/> Other: _____ (d)</p>	<p>9. What is your age? _____</p>
<p>3. Please check any other transportation modes in your trip today, including how you got to the trail.</p> <p><input type="checkbox"/> Car (a) <input type="checkbox"/> Carpool (b)</p> <p><input type="checkbox"/> Transit (c) <input type="checkbox"/> Walk (d)</p> <p><input type="checkbox"/> Bike (e)</p>	<p>10. How do you describe your gender?</p> <p><input type="checkbox"/> Female <input type="checkbox"/> Male <input type="checkbox"/> Other _____</p>
<p>4. How long do you plan to be on the trail today?</p> <p><input type="checkbox"/> 0-1 hours (a)</p> <p><input type="checkbox"/> 1-2 hours (b)</p> <p><input type="checkbox"/> 2-3 hours (c)</p> <p><input type="checkbox"/> More than 3 hours (d)</p>	<p>11. When asked to identify your racial or ethnic identity, how do you identify? (Optional. Check all that apply.)</p> <p><input type="checkbox"/> American Indian or Alaska Native (e)</p> <p><input type="checkbox"/> Asian or Asian American (d)</p> <p><input type="checkbox"/> Black or African American (b)</p> <p><input type="checkbox"/> Hispanic or Latino/a/x (a)</p> <p><input type="checkbox"/> Middle Eastern or North African (f)</p> <p><input type="checkbox"/> Pacific Islander or Native Hawaiian (g)</p> <p><input type="checkbox"/> White or European American (c)</p> <p><input type="checkbox"/> Prefer not to answer (h)</p> <p><input type="checkbox"/> Any other race or ethnicity not listed above: (i) _____</p>
<p>5. Why are you using this trail instead of walking or riding elsewhere? Check all that apply.</p> <p><input type="checkbox"/> Accessible / close (a)</p> <p><input type="checkbox"/> Direct / good connections (b)</p> <p><input type="checkbox"/> Safer than using roads (c)</p> <p><input type="checkbox"/> Scenic qualities (d)</p> <p><input type="checkbox"/> Flat / level (e)</p>	<p>12. Do you have any comments? _____</p>
<p>6. In the past month, how often have you used this trail?</p> <p><input type="checkbox"/> First time ever (skip to Question 8) (a)</p> <p><input type="checkbox"/> 0-5 times (b)</p> <p><input type="checkbox"/> 6-10 times (c)</p> <p><input type="checkbox"/> 11-20 times (d)</p> <p><input type="checkbox"/> Daily (e)</p>	
<p>7. Please check the seasons in which you use the trail.</p> <p><input type="checkbox"/> Summer (a) <input type="checkbox"/> Fall (b)</p> <p><input type="checkbox"/> Winter (c) <input type="checkbox"/> Spring (d)</p>	

Electronic surveys

- Internet connection & smart phone/tablet are needed
- Completely OK to use paper survey!
- If the survey doesn't open in one web browser, try a different web browser
- It won't be possible for a single volunteer to count AND administer a survey on the same smart device, especially if the site is busy
 - They will either need two devices or will need to use the paper forms for either the count or survey

A screenshot of a web form titled "Metro Trail Intercept Survey". The form is set against a dark background with a starry night sky. It contains several input fields: a text box for "Site ID, Trail Name, Location*", a date picker for "Date:" showing "8/29/18", a time picker for "Time:" showing "14:27", a text box for "Name of Data Collector (optional)", and a dropdown menu for "Weather:" with the option "-Please Select-".

Metro Trail Intercept Survey

Site ID, Trail Name, Location*

Date:*

8/29/18

Time:*

14:27

Name of Data Collector (optional)

Weather*

-Please Select-

[Link to electronic survey:](#)
under the “Materials” section

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 technical trail count questions, contact:

Nate White

nate.white@oregonmetro.gov

503-813-7562

For trail count volunteer questions, contact:

Diego Gioseffi

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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/>

