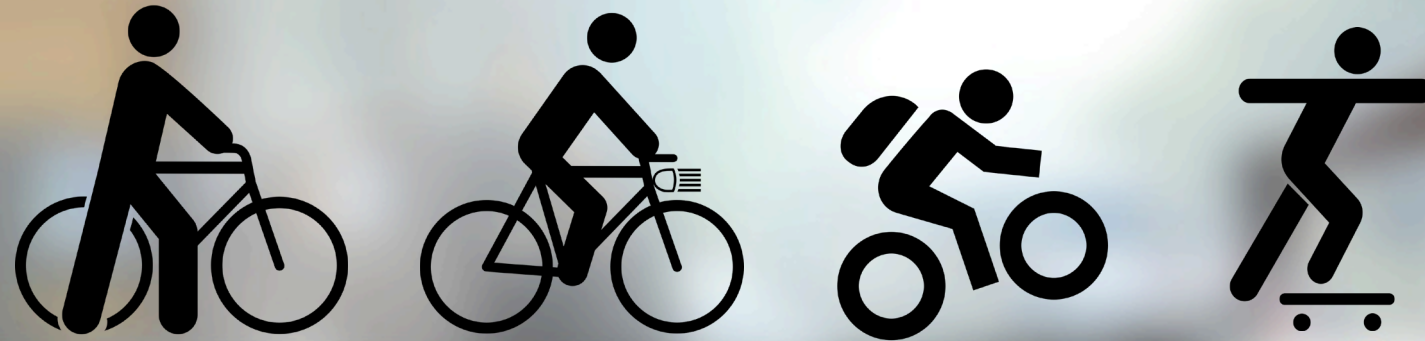


# Portland Bike Count Volunteer Training

*Instructions for counting people on bikes (and skateboards!)*



WE KEEP PORTLAND MOVING.



**PBOT**  
PORTLAND BUREAU OF TRANSPORTATION

# What are we counting?

# What are we counting?

The standard  
bike count form

**Bicycle Count Form** use different form for each hour

Location: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Weather: \_\_\_\_\_ Name: \_\_\_\_\_

Notes: \_\_\_\_\_

	Male	Female	Total
<i>with</i> helmet			
<i>without</i> helmet			
<i>totals →</i>			

Indicate movement thru intersection by using arrows to show direction of travel (left turns, through, etc.).  
Indicate north, label legs of intersection. If not standard intersection, use blank form and draw in design.

North

Skateboard tally:

# What are we counting?

Tracks gender  
and helmet use



Bicycle Count Form use different form for each hour

Location: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

	Male	Female	Total
<i>with</i> helmet			
<i>without</i> helmet			
<i>totals</i> →			

Skateboard tally:

# What are we counting?

Includes a diagram  
for turning  
movements



Bicycle Count Form use different form for each hour

Location: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Weather: \_\_\_\_\_ Name: \_\_\_\_\_

Notes: \_\_\_\_\_

North

Skateboard tally: \_\_\_\_\_

# What are we counting?



With a separate  
tally for  
skateboards

Bicycle Count Form use different form for each hour

Location: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Weather: \_\_\_\_\_ Name: \_\_\_\_\_

Notes: \_\_\_\_\_

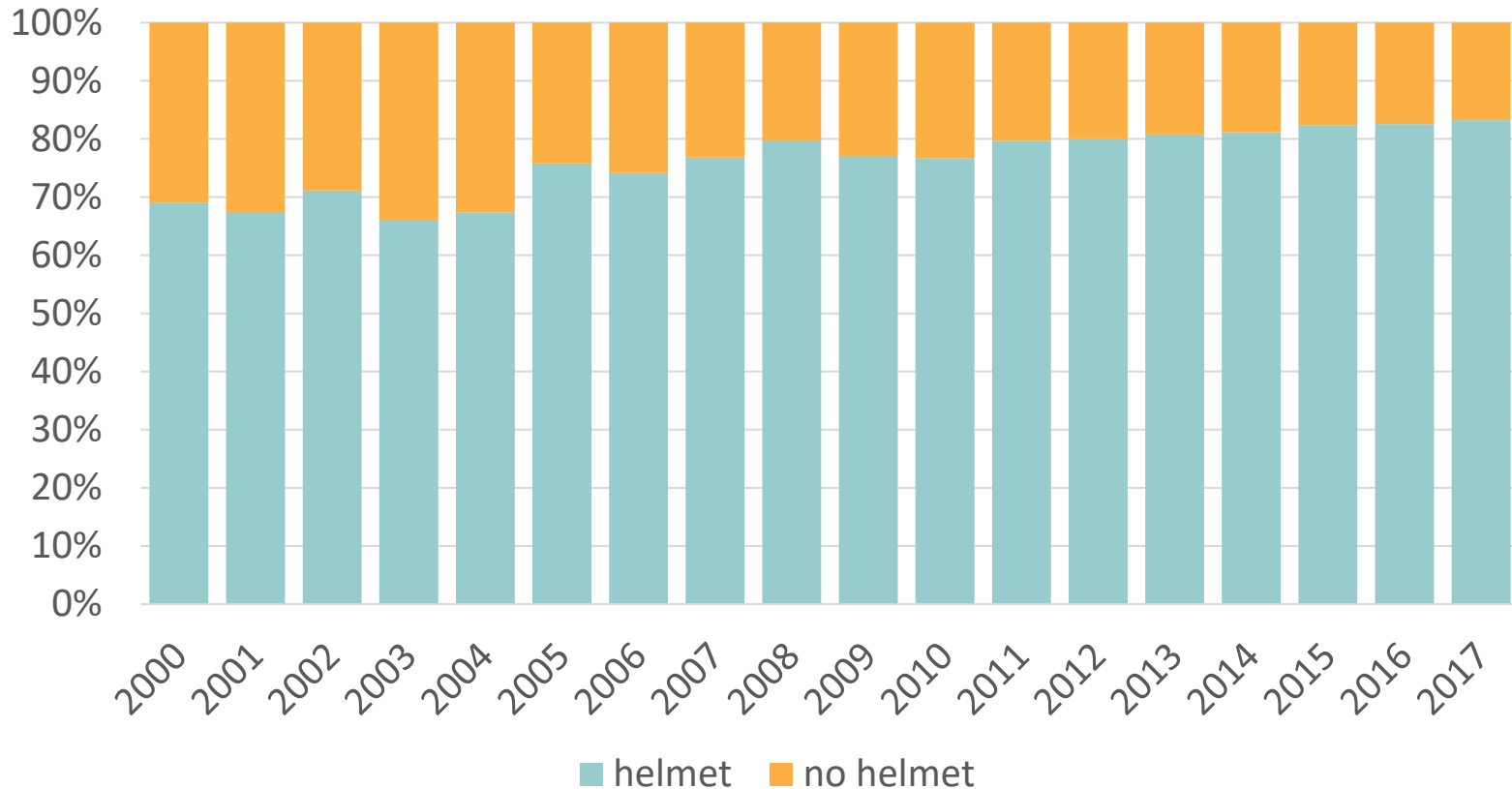
	Male	Female	Total
with helmet			
without helmet			
<i>totals →</i>			

Indicate movement thru intersection by using arrows to show direction of travel (left turns, through, etc.).  
Indicate north, label legs of intersection. If not standard intersection, use blank form and draw in design.

North

Skateboard tally:

# Citywide helmet use is up to 83%

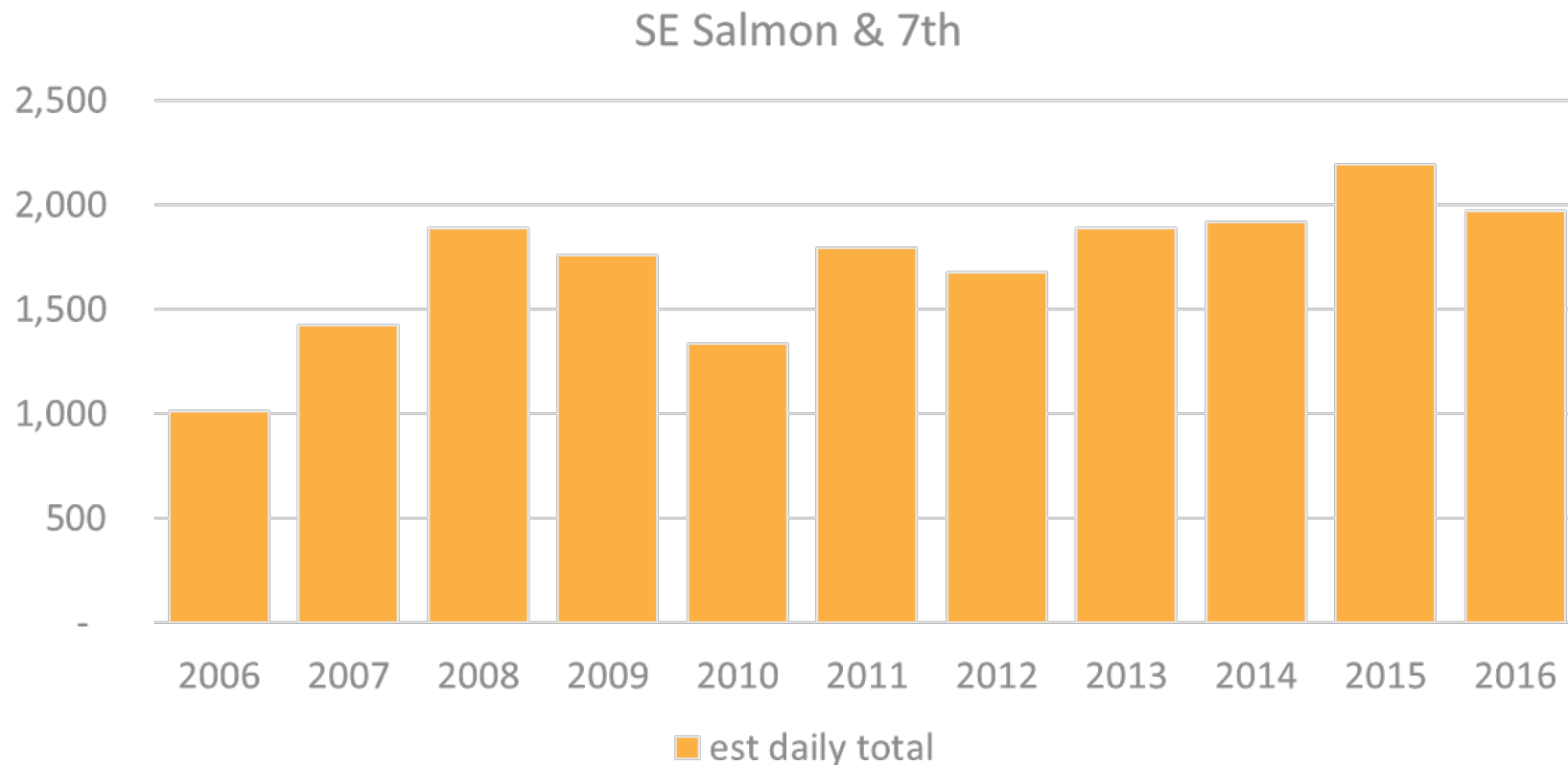


In 1992, only one in five people on bikes were female; in 2017, it was one in three.  
(We're aiming for one in two.)

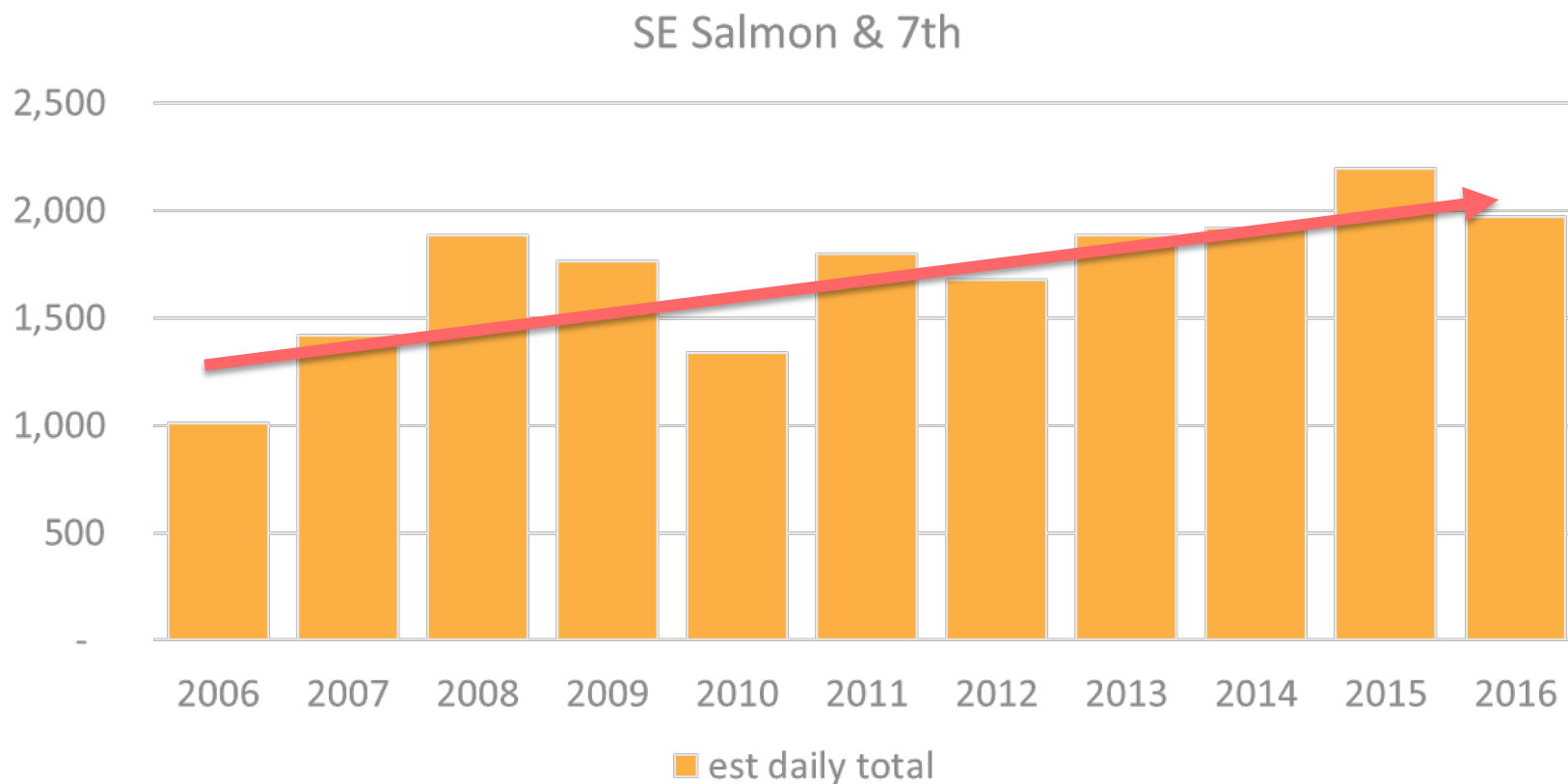




# Site counts go up and down from year to year...

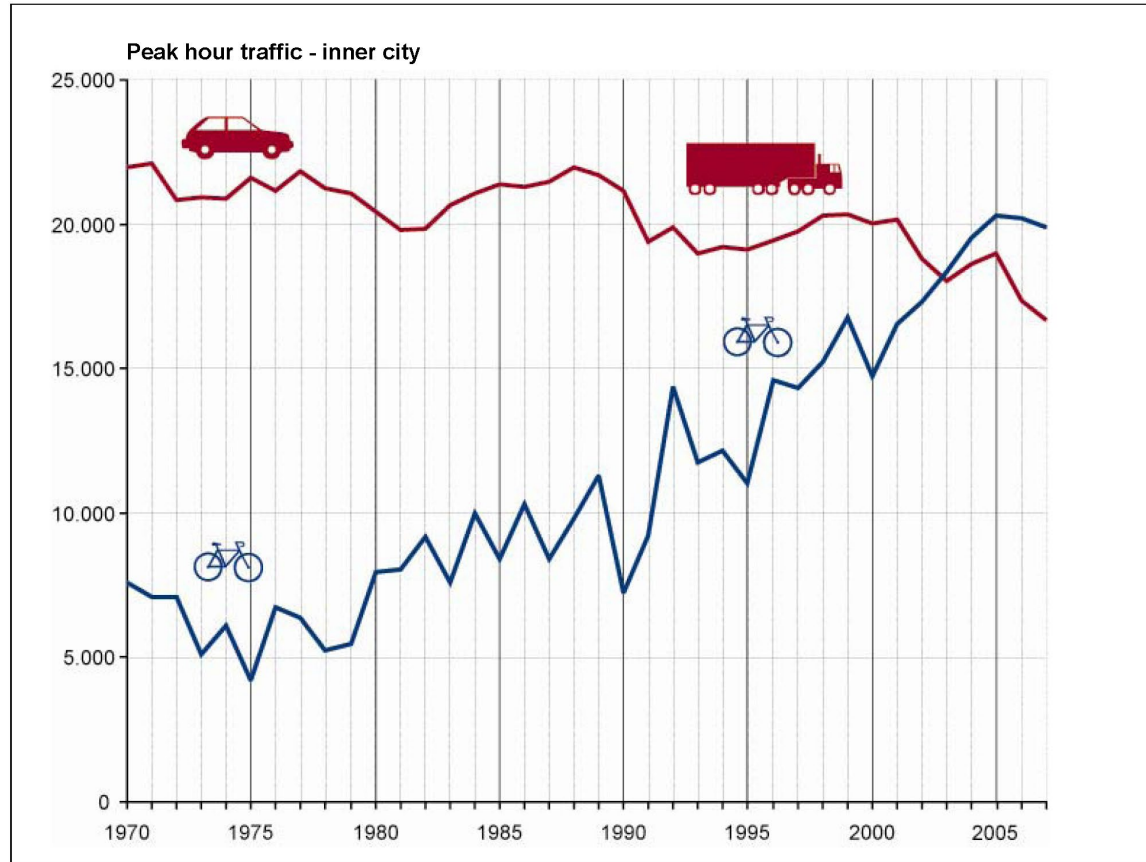


# ...and trends develop over time.



# Don't worry - we'll get there!

Copenhagen's bike mode share was not a straight line to the top.

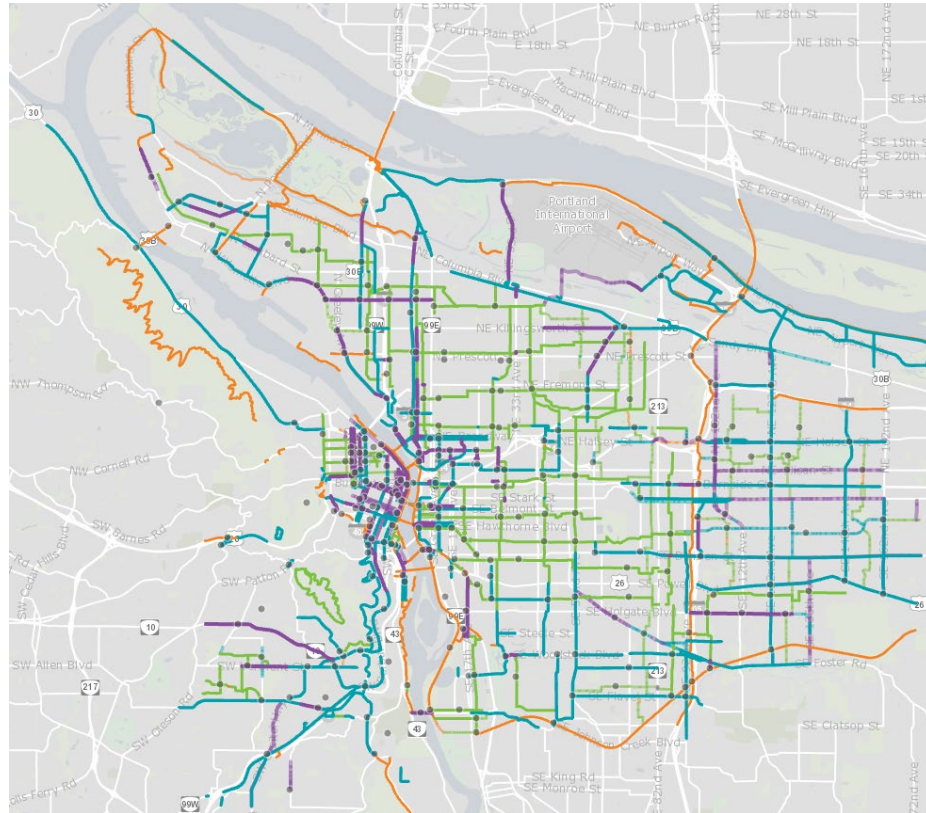


# Where are we counting?

# Where are we counting?

**306** sites citywide

sector	# sites
Bridge	3
City Center	41
East	48
North	39
Northeast	50
Northwest	25
Southeast	64
Southwest	36



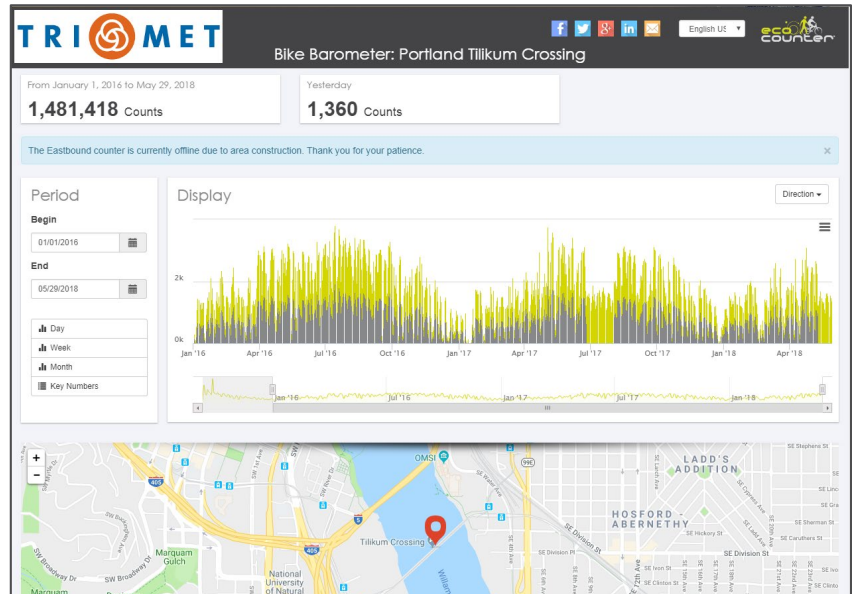
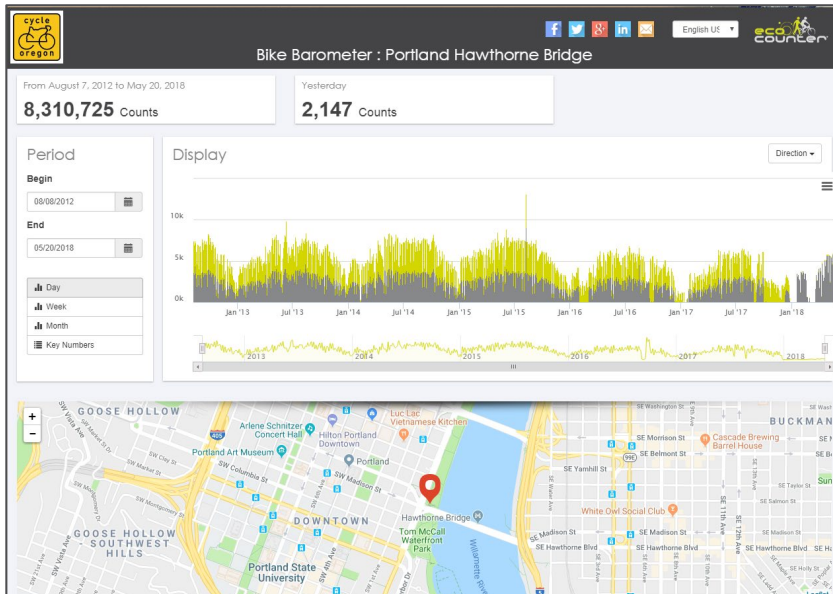
# Most sites are located at the intersection of two bikeways.

- Streets with bike lanes
- Neighborhood greenways
- Multi-use paths



*SE Ankeny & 28th*

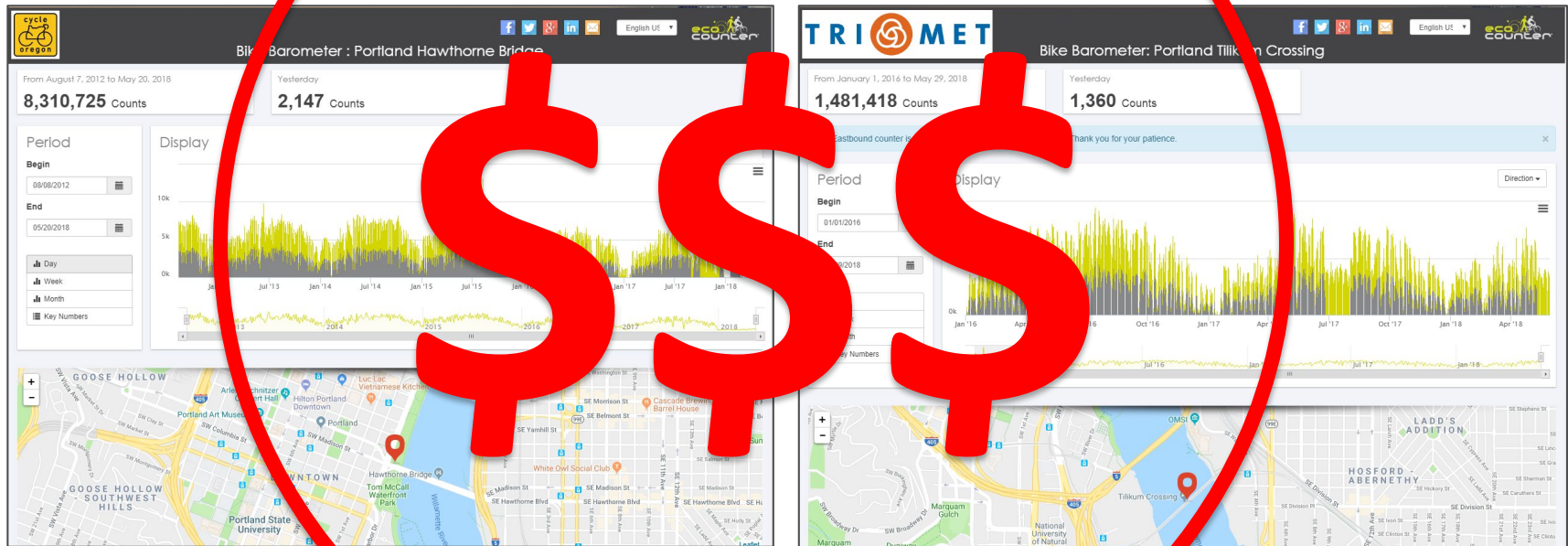
# Portland also has a few automated “hose” counts.



Hawthorne Bridge: <http://portland-hawthorne-bridge.visio-tools.com/>  
Tilikum Crossing: <http://portland-tilikum-crossing.visio-tools.com/>



Portland also has a few automated “hose” counts.



Hawthorne Bridge: <http://portland-hawthorne-bridge.visio-tools.com/>

Tilikum Crossing: <http://portland-tilikum-crossing.visio-tools.com/>



# That's why we need you!



# That's why we need you!

We utilize **100+ volunteers** every summer to count as many sites as we can.



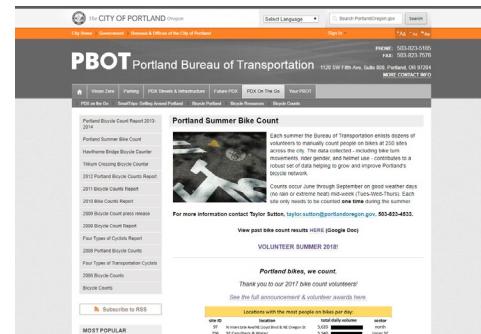
# That's why we need you!

We utilize **100+ volunteers** every summer to count as many sites as we can.



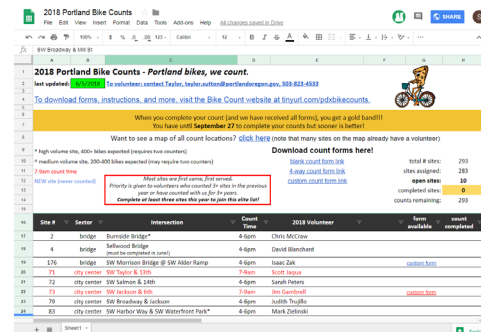
# [tinyurl.com/pdxbikecounts](http://tinyurl.com/pdxbikecounts)

- Count forms
- Map of sites
- Data
- This presentation



# [tinyurl.com/pdxbikecounts2019](http://tinyurl.com/pdxbikecounts2019)

- Volunteer assignments
- Available sites



Site #	Sector	Intersection	Count Time	2018 Volunteer	Status
2	bridge	Burnside Bridge*	4 days	Chris McCraw	count completed
4	bridge	Selwyn Bridge (must be completed in June)	4 days	David Blanchard	
176	bridge	SW Morrison Bridge @ SW Alder Ramp	4 days	Joan Zell	count form
71	city center	SW Taylor & SW	2 days	Scott Davis	
72	city center	SW Salmon & 24th	4 days	Sarah Peters	
73	city center	SW Jackson & SW	2 days	Don Davidson	count form
79	city center	SW Broadway & Jackson	4 days	Heidi Truglio	
81	city center	SW Harbor Way & SW Waterfront Park*	4 days	Mark Delaney	

# When are we counting?

# When are we counting?

## Summer 2018 Bike Count Calendar

Conduct counts on *good weather* Tuesdays, Wednesdays, or Thursdays from June through September.

### Holidays:

July 4th, Independence Day  
September 4th, Labor Day

Do not count during the week of July 4th!



### Note:

Do not count on shaded dates!

Sun  
7

- **Summer months:** June through August
- **Mid-week:** Tuesday, Wednesday, or Thursday
- During **peak rush hour:** 4-6pm for most, 7-9am for some
- Each site is only counted **one time**

June	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
						1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30

August	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
				1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	

July	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31				

September	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
							1
	2	3	4	5	6	7	9
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29

Done with your counts early? Had so much fun you want to do more? Contact Taylor to help fill in the gaps:

[taylor.sutton@portlandoregon.gov](mailto:taylor.sutton@portlandoregon.gov), 503-823-4533

See the list at [tinyurl.com/pdxbikecounts2018](http://tinyurl.com/pdxbikecounts2018).

# When are we counting?

## Avoid counting:

- On rainy days
- During extreme heat
- The week of Independence Day



# When are we counting?

Last day to complete a bike count:

**THURSDAY, AUGUST 29**

**DO NOT BE LATE.**



# How are we counting?

## 26

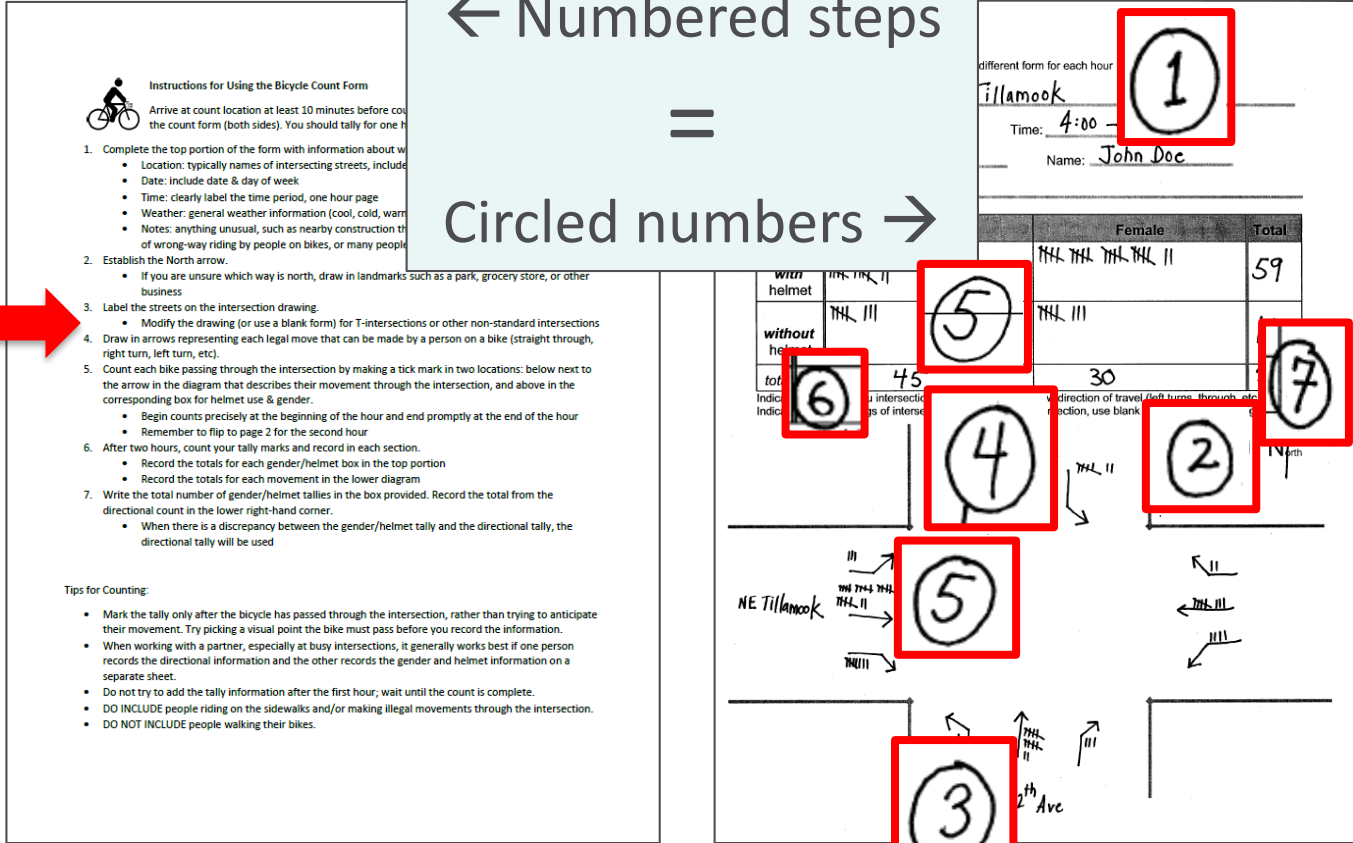
# How are we counting?

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

← Numbered steps

=

Circled numbers →



The image shows a bicycle count form with instructions and a diagram. A red arrow points from step 2 to the diagram. The diagram shows a T-intersection with NE Tillamook and 2nd Ave. Circled numbers 1 through 7 indicate the counting steps: 1. Time, 2. Name, 3. Helmet status, 4. Gender, 5. Direction of travel, 6. Helmet status, 7. Total count. The diagram also shows tally marks for each category.

Download instructions at [tinyurl.com/pdxbikecounts](https://tinyurl.com/pdxbikecounts)

# How are we counting?

## Plan ahead:

- Scope out your site before you count
- Find a shady spot, bring a hat or umbrella
- Bring snacks and water
- Use a clipboard or other hard surface to write on
- Bring an extra writing utensil
- Don't forget your count form!



**Bicycle Count Form** use different form for each hour

Location: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Weather: \_\_\_\_\_ Name: \_\_\_\_\_

Notes: \_\_\_\_\_

	Male	Female	Total
with helmet			
without helmet			
<b>total: →</b>			

Indicate movement thru intersection by using arrows to show direction of travel (left turns, through, etc.)  
Indicate north, label legs of intersection. If not standard intersection, use blank form and draw in design.

N

Skateboard tally:

# Before you start, prepare the count form.

1. Fill in the top portion on both sides.
  - You will count one hour per side
  - Note anything unusual or interesting
    - Construction
    - Lots of bikes on the sidewalk
    - Large Pedalpalooza ride

**Bicycle Count Form** use different form for each hour

Location: NE 12<sup>th</sup> & Tillamook

Date: 7/25/06 Time: 4:00 - 5:00 pm

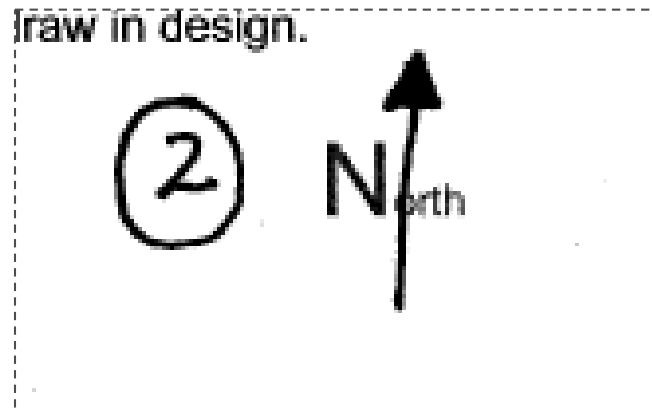
Weather: 80's, sunny Name: John Doe

Notes: \_\_\_\_\_

①

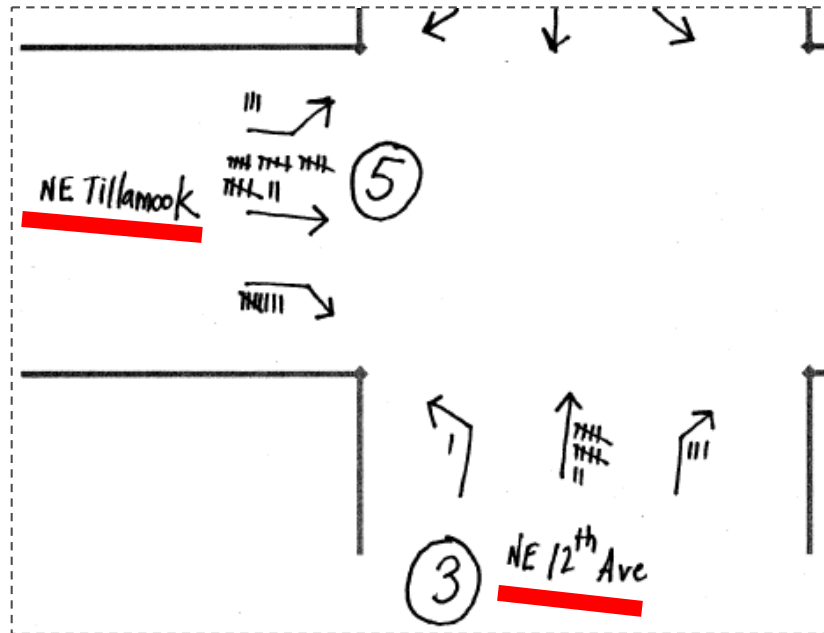
# Before you start, prepare the count form.

1. Fill in the top portion on both sides.
2. Draw an arrow to indicate which way is North.
  - If you are unsure, draw in other landmarks such as a park or grocery store.



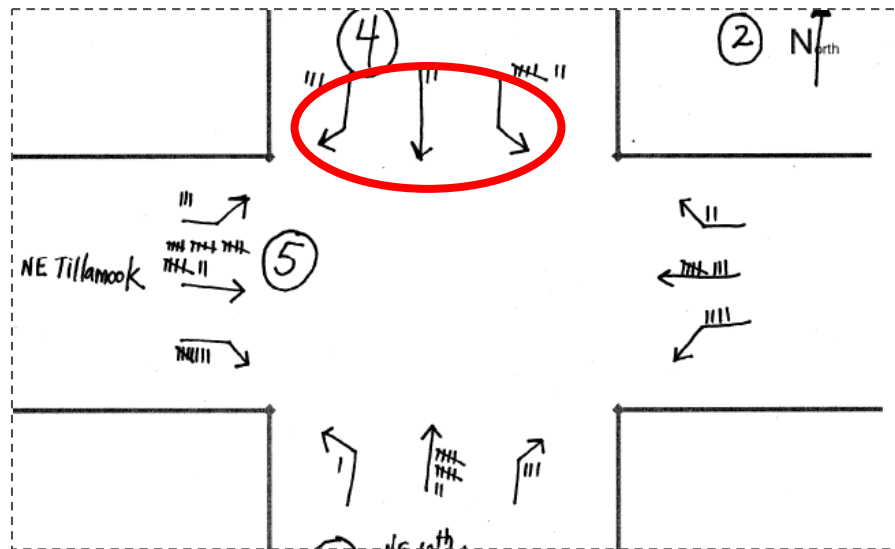
# Before you start, prepare the count form.

1. Fill in the top portion on both sides.
2. Draw an arrow to indicate which way is North.
3. Label the streets in the diagram at the bottom of the page.



# Before you start, prepare the count form.

1. Fill in the top portion on both sides.
2. Draw an arrow to indicate which way is North.
3. Label the streets in the diagram at the bottom of the page.
4. Draw arrows in the diagram to represent potential movements.





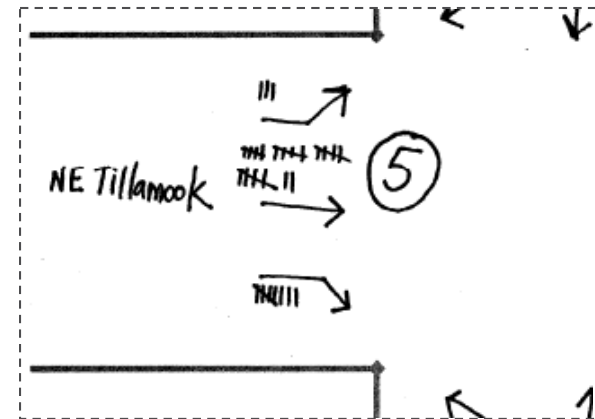
# During the count, track helmets, gender, and direction of travel.

5. Count each person on a bike as they pass through the intersection.

- Each bike gets two tick marks: one for helmet/gender and one for direction of travel
- Flip to page 2 after the first hour

	Male	Female	Total
with helmet	 		59
without helmet			16
totals →	6 45	30	75

(Indicate movement thru intersection by using arrows to show direction of travel (left, thru, through, etc.)

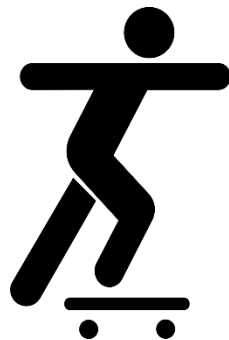


# During the count, track helmets, gender, and direction of travel.

5. Count each person on a bike as they pass through the intersection.

**BONUS: Tally skateboards!**

- You do not need to track helmet/gender for skateboards
- Keep this separate from the bike tallies



without helmet			
<b>totals →</b>			

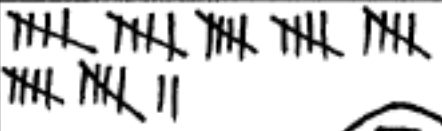
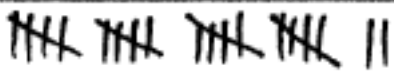
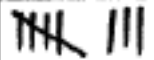
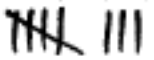
Indicate movement thru intersection by using arrows to show direction of travel (left turns, through, etc.).  
Indicate north, label legs of intersection. If not standard intersection, use blank form and draw in design.

North

Skateboard tally:

# After the count, check your tally marks.

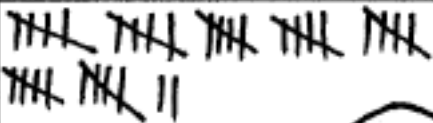
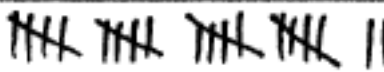
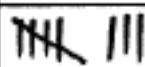
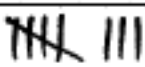
6. Add the tally marks for each section of the top box.

	Male	Female	Total
<b>with helmet</b>	 (5)		59
<b>without helmet</b>	 (5)		16
<b>totals →</b>	(6) 45	30	75 (7)

Indicate movement thru intersection by using arrows to show direction of travel (left turns, through, etc.).

# After the count, check your tally marks.

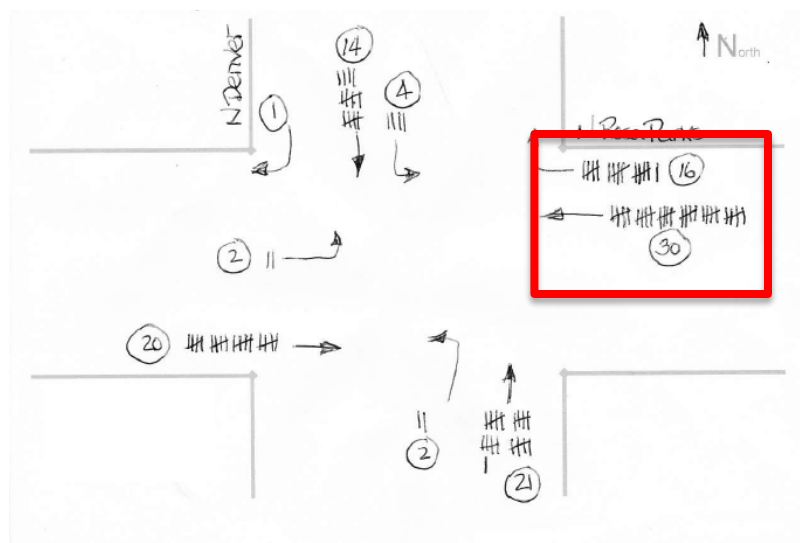
6. Add the tally marks for each section of the top box.
7. Sum together and write the total in the lower right box.

	Male	Female	Total
<b>with helmet</b>	 (5)	 11	59
<b>without helmet</b>	 (5)	 11	16
<b>totals →</b>	(6) 45	30	75 (7)

Indicate movement thru intersection by using arrows to show direction of travel (left turns, through, etc.).

# After the count, check your tally marks.

6. Add the tally marks for each section of the top box.
7. Sum together and write the total in the lower right box.
8. BONUS: Add the tally marks in the bottom diagram.
  - This should match the total from the top



# A completed count form:

**Bicycle Count Form** use different form for each hour

Location: N Rosa Parks + N Denver

Date: 18 June 2015 Time: 5-6pm

Weather: 75° sunny Name: John Beaston

Notes: Lots of speeding along N Rosa Parks

	Male	Female	Total
with helmet	       63	       26	89
without helmet	 17	 4	21
totals →	80	30	110

Indicate movement thru intersection by using arrows to show direction of travel (left turns, through, etc.).  
Indicate north, label legs of intersection. If not standard intersection, use blank form and draw in design.

The diagram illustrates the intersection of N Rosa Parks and N Denver. A north arrow points upwards. The intersection is marked with a vertical line for N Denver and a horizontal line for N Rosa Parks. Arrows indicate the direction of travel for each leg. Counts are recorded for each direction: N Rosa Parks (left: 16, right: 30), N Denver (left: 14, right: 4), and a cross-street (left: 20, right: 2). The counts are represented by tally marks and circled numbers.

# Let's review:

# Let's review:

**Start and end precisely at the top of the hour.**

4-6pm for most counts, 7-9am for some.



Don't forget to flip to the next page for hour two!



# Let's review:

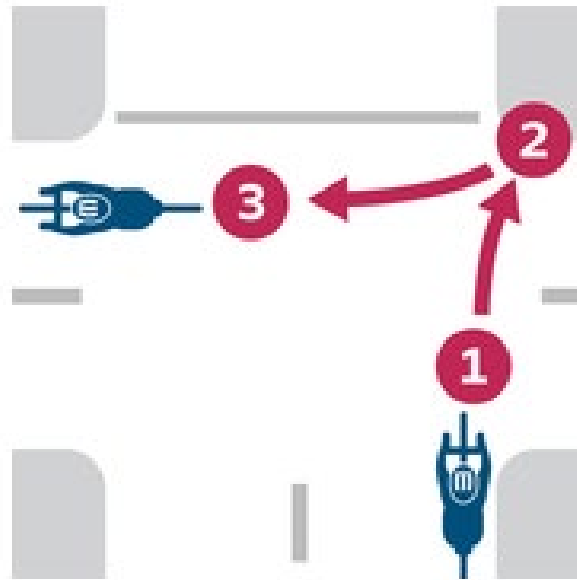
**Do not cheat!**



We're depending on the counts to be accurate

# Let's review:

Wait to record the movement until it is complete.



People on bikes sometimes use sidewalks and crosswalks to better position themselves in the roadway.

# Let's review:

Remember to mark each person on a bike for helmet/gender and for direction of travel.

**Bicycle Count Form** use different form for each hour

Location: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Weather: \_\_\_\_\_ Name: \_\_\_\_\_

Notes: \_\_\_\_\_

	Male	Female	Total
with helmet		✓	
without helmet			
<b>totals →</b>			

Indicate movement thru intersection by using arrows to show direction of travel (left turns, through, etc.).  
Indicate north, label legs of intersection. If not standard intersection, use blank form and draw in design.

North

Skateboard tally:

If there are discrepancies, the directional count will be used.

# High-volume Sites

^ = 200-400 bikes expected

Consider  
a partner!

\* = 400+ bikes expected

Partner  
required!

*High-volume sites are not recommended for new volunteers.*

When counting with a partner, it usually works best to have one person track gender/helmet and the other track the direction of travel.

Bicycle Count Form use different form for each hour

Location: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Weather: \_\_\_\_\_ Name: \_\_\_\_\_  
Notes: \_\_\_\_\_

	Male	Female	Total
with helmet	✓	✓	
without helmet	✓	✓	
Total →			

Indicate movement from intersection by using arrows to show direction of travel (left turn, through, etc.). Indicate north, side, right of intersection. If not standard intersection, use blank form and draw in image.

Skateboard tally: \_\_\_\_\_

Bicycle Count Form use different form for each hour

Location: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Weather: \_\_\_\_\_ Name: \_\_\_\_\_  
Notes: \_\_\_\_\_

	Male	Female	Total
with helmet			
without helmet			
Total →			

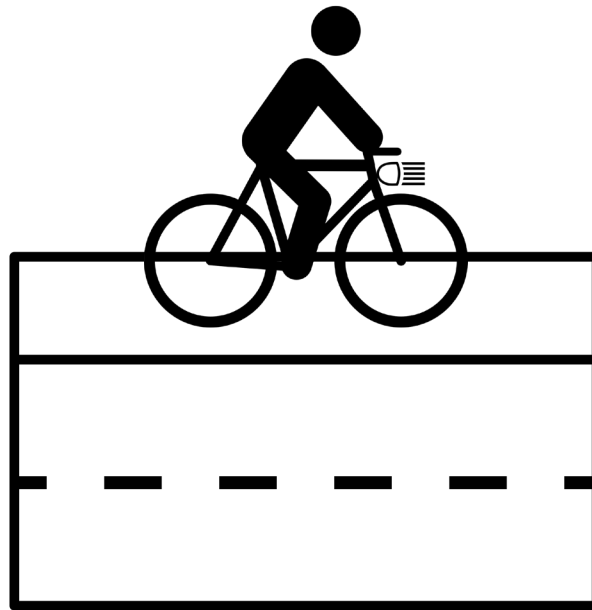
Indicate movement from intersection by using arrows to show direction of travel (left turn, through, etc.). Indicate north, side, right of intersection. If not standard intersection, use blank form and draw in image.

Skateboard tally: \_\_\_\_\_

# Frequently Asked Questions

# Frequently Asked Questions

**Q:** Should I include people riding on the sidewalk?



# Frequently Asked Questions

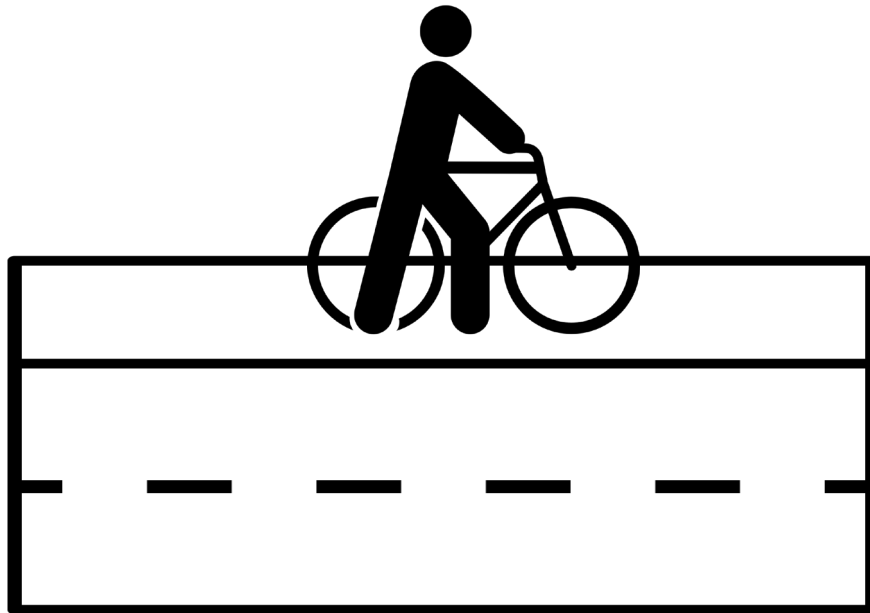
**Q:** Should I include people riding on the sidewalk?

**A: Yes.** This could indicate that existing infrastructure is not ideal for how cyclists want to get around. We want to know!

*Bonus: It's helpful if you can draw a sidewalk on the count form with separate arrows; otherwise, write a note at the top of the form indicating if there were a few or many sidewalk riders.*

# Frequently Asked Questions

**Q:** What about people *walking* their bike?





# Frequently Asked Questions

**Q:** What about people *walking* their bike?

**A: No.** Only include people actively riding through the intersection.

# Frequently Asked Questions

**Q:** Should I count people riding the wrong way on a one-way street, or those making an illegal turn movement?



# Frequently Asked Questions

**Q:** Should I count people riding the wrong way on a one-way street, or those making an illegal turn movement?

**A: Yes.** Any illegal or otherwise questionable movements should still be counted.

# Frequently Asked Questions

**Q:** Should I include people using scooters or segways?



# Frequently Asked Questions

**Q:** Should I include people using scooters or segues?

**A: No.** We want to focus on getting an accurate count of bicycles.

*We really want you to **count skateboards**, but please keep these tallies **separate** from the bike tallies.*

# Frequently Asked Questions

**Q:** How would I count a tandem or a child on a bike?



# Frequently Asked Questions

**Q:** How would I count a tandem or a child on a bike?

**A:** Generally, if someone is pedaling you should count them separately.

# Frequently Asked Questions

**Q:** How would I count a tandem or a child on a bike?

**A:**



2



1



4



# Frequently Asked Questions

**Q:** What if there is a large group of people (such as a [Pedalpalooza](#) ride) riding by at once?



# Frequently Asked Questions

**Q:** What if there is a large group of people (such as a [Pedalpalooza](#) ride) riding by at once?

**A:** Do your best to accurately count them all.

- For high-volume intersections\*, bring a friend to help you count

# Frequently Asked Questions

**Q:** What if the cyclist is wearing spandex/is a child/is not wearing clothes?



# Frequently Asked Questions

**Q:** What if the cyclist is wearing spandex/is a child/is not wearing clothes?

**A:** Count everyone on a bicycle.

- Portlanders use bikes for many different reasons including transportation, recreation, commuting, and more. We want to count them all – EVERY BIKE COUNTS!

# Frequently Asked Questions Recap:

**Q:** Should I include people riding on the sidewalk? **A:** Yes.

**Q:** Should I include people walking their bike? **A:** No

**Q:** Should I include people riding the wrong way on a one-way street? **A:** Yes.

**Q:** Should I count people using scooters or segues? **A:** No.

**Q:** How would I count a tandem or a child on a bike?

**A:** If they are pedaling, count them each separately.

**Q:** What if there is a large group all at once? **A:** Count them.

**Q:** What if the cyclist is wearing spandex/is a child/is not wearing clothes? **A:** Count them all!

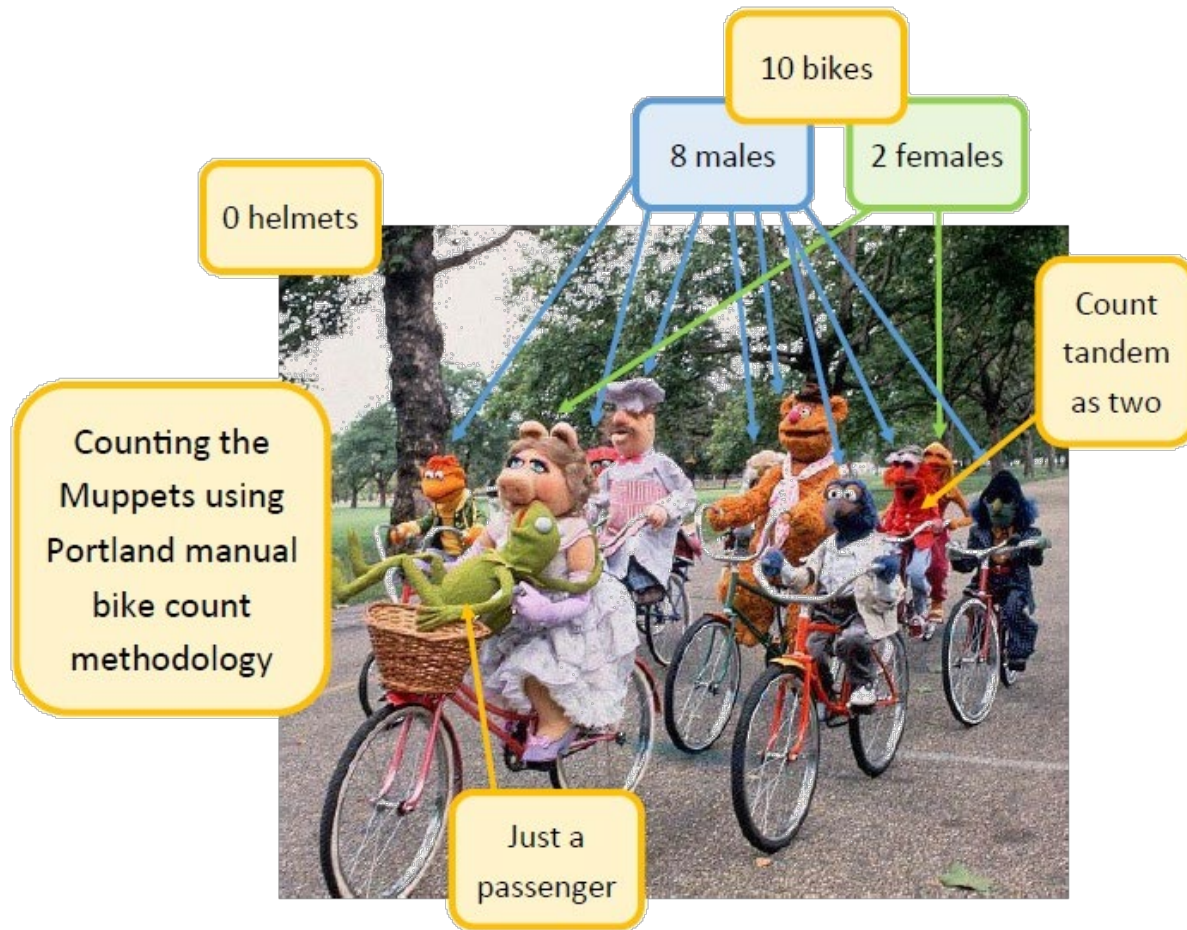


# Pop Quiz!

How would you count these guys?



# Pop Quiz!



# When you have completed your count(s):

*Please return your count forms ASAP!*

## by MAIL

Taylor Phillips  
PBOT Bike Count  
1001 SW 5<sup>th</sup> Ave, Ste 500  
Portland, OR 97204

## by SCAN & E-MAIL

[taylor.phillips@portlandoregon.gov](mailto:taylor.phillips@portlandoregon.gov)

Check [tinyurl.com/pdxbikecounts2019](https://tinyurl.com/pdxbikecounts2019)  
if you want to grab another site!



# And one last thing...

We appreciate our dedicated, hard-working volunteers, so we have this special offer for you:

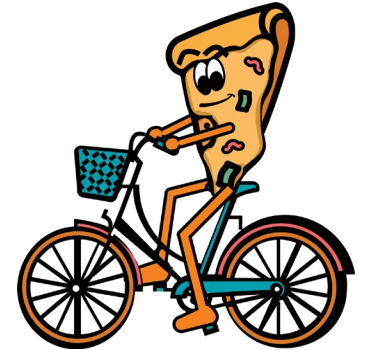
Complete **3 or more** bike counts this year, get **first dibs** next year! *Or count the same site for 3 or more years.*

[Get started now!](#)



# Thank you!

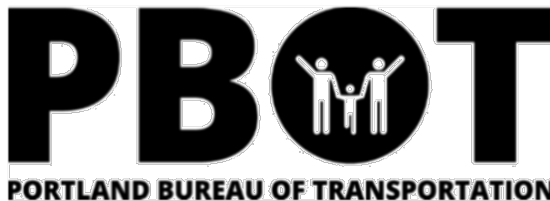
We couldn't do this without you.



Contact Taylor Phillips with any questions, or to sign up for count sites!

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Find count forms and other info at [tinyurl.com/pdxbikecounts](https://tinyurl.com/pdxbikecounts)



**BIKE COUNT**