



2022 Traffic Study

Bike Cochrane Active Transportation Committee

Jan 2023

Background

- In Winter 2020, Bike Cochrane entered into a 'Data Sharing Agreement' with the Town of Cochrane to allow for **bike counting on the Town's pathway network**
- Piloted at the Ranche park in Jan/Feb 2021 and methodology defined for Metrocount RidePod BT tube counter for bikes (see previous study report), Bike Cochrane manages traffic studies in Cochrane to **better understand recreational and 'bike to school' cycling and pedestrian traffic**
- Starting in 2022, Bike Cochrane added two optical counters (Eco-Counter Pyro Box) for all-season counting
 - These don't give a 'mode' of transportation but combined with the tube counters, we can determine walkers v bikers
- Month-long studies to align to Strava data gathering period, determine correlation factors to Strava (SUR or Strava User Rate)

Metrocount RidePod BT with local storage, data retrieved at month end



2022 Traffic notes

- Winter months – placed at red shale path in Glenbow (off Glenpatrick Road)
 - It turns out that tube counters don't work terrific when they're encased in ice. 😞
- Summer – focus on 'bike to school' planned improvement areas
 - April – River Heights Drive connector
 - May + June - Quigley Drive sidewalk/roadway
 - July - CP Rail crossing at Carolina Drive/1st St E
 - August - Continued Bow River Pathway counting
 - September - Heartland/Heritage Hills pathway
 - October – CP Rail Crossing
 - November – James Walker Trail north side sidewalk (optical only)
- Consider a permanent counter installation on Bow River Pathway
 - Eco Counter ZELT would be a good option
 - This would help understand the highest use corridor, along with providing future data for the Great Trail improvements
 - Could also add a 'visual counter' similar to that done at the Legacy Trail near Canmore, AB
- Use both tube counter + optical counter together to get a better 'mode split' evaluation in a given area
- Use second tube counter to get trail counts (not paved surfaces) of users as well



2022 Summer Traffic plan

- Summer traffic plan aligned to target **school-related traffic** (April/May/June/Sept/Oct) along with **recreational traffic** (July/August)



- April – River Heights Drive connector
- May/June – Quigley Drive by Highway 22
- July – CP Rail Crossing at Carolina Drive
- August – Bow River Pathway
- Sept – Heartland/Heritage pathway by CP crossing
- Oct – James Walker Trail sidewalk



April - River Heights Drive connector

- This gravel road could be improved for safer access from River Heights and Fireside into the Town
- Used for April monitoring since it's not paved and so wouldn't have aggressive snow-plow usage
- Could improve 'Bike to School' for access to Bow Valley High School, along with River Heights/Fireside access to other schools (French Immersion, Francophone, school of choice)
- Needed a road permit, and was only granted for April 15-30
- **15-20 bikes/day** counted in late April with a higher number of recreational usage (Sat/Sun vs weekday)

Bike Cochrane
Active
Transportation
Committee
volunteer



Data notes

- Pro-rated monthly traffic based on 15 days counted
- Strava Metro moved the edge where the counter was placed so this month's data didn't align

Monthly Count – 786*
SUR – NA%, x

This report includes aggregated and de-identified data from Strava Metro Edge UID



May/June – Quigley Drive

- Tube counter placed on south side sidewalk of Quigley Drive near A and W
- Ped counter (Eco Counter Pyro Box) placed on light pole ~100 m east of tube counter between hwy 22 and Aarsby Road
- Last year's counts showed high cycling counts that correlated to bike to school timing and this year's May/June counts show similar timing insights
- SUR rates have come down as it appears more cyclists are tracking their cycling routes?
- **Bike counts down by a factor of 4x since 2021 – why? Less safe at highway 22 crossing? More walking vs bikes?**



Bikes - May

Monthly Count – 1160
SUR – 10.3%, 9.7x

Bikes - June

Monthly Count – 1384
SUR – 8.3%, 12.0x

Walk - May

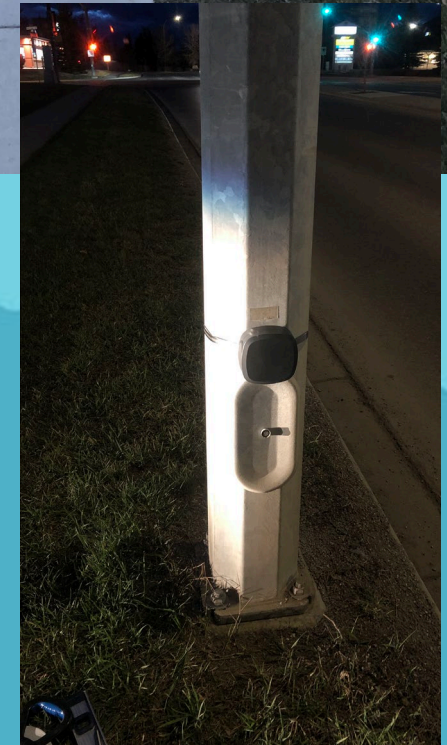
Monthly Count – 4920
SUR – 0.82%, 123x

Walk - June

Monthly Count – 4850
SUR – 1.44%, 69x

First month I used optical counter so methodology still being worked on
Counts showed **~150-180 walkers/day** in May/June, and **~30-40 bikes/day**

This report includes aggregated and de-identified data from Strava Metro
Edge UID 347595633



July – CP crossing at Carolina Dr

- Tube counter placed on pathway south of 1st st on the other side of Carolina Drive
- This is a pedestrian-only crossing of the CP rail mainline in Cochrane
- With a potential connection from the other side of the CP rail line to Railway St, this could make a safer connection to the Station and the E-W corridor to Glenbow Drive/Quigley Drive
- Day of week and times look much more **recreational than commute-focused**, and the self-declared Strava 'type of ride/walk' also matches this designation.



Bikes - July

Monthly Count – 1328
SUR – 16.2%, 6.1x

Counts showed **~160-190 walkers/day** in May/June, and **~35-45 bikes/day**

Walk - July

Monthly Count – 5257
SUR – 2.3%, 43x

This report includes aggregated and de-identified data from Strava Metro
Edge UID 347598275



Aug – Bow River Pathway

- Counter placed north of iron bridge on the west pathway heading into Bow River Pathway
- Pedestrian counter placed on 4x4 sign
- This has historically been one of the **highest usage corridors in Cochrane** and could be a decent option for a permanent counter like a Zelt or similar to allow for long-term counting data
- Timing shows mostly **recreational usage** of this corridor

Data highlights

- As early as 4AM bike traffic
- Most bikes in a day counted – **162** (Monday 2 Aug)
- Most people in a day counted (Sat 6 Aug) – **900**
- Most bikes in an hour counted – **29** (Friday 12 Aug 11AM-12PM)
- Most people in an hour counted – **141** (28 Aug 2PM-3PM)
- **Average of 500-600 people/day**
- **Average of 90-110 bikes/day**

This report includes aggregated and de-identified data from Strava Metro
Edge UID 347596496

Bikes - August

Monthly Count – 3386
SUR – 11.4%, 8.8x

Walk - August

Monthly Count – 19744
SUR – 2.2%, 46.5x



Sept – Heartland/Heritage pathway by CP rail crossing

- At grade crossing of CP rail on farthest west side of Cochrane
- This is the only safe access to town for both Heartland and Heritage Hills
- Both ped and cycle counts were done in this location
- Commute and ‘bike to school’ timing seen quite strongly in both pedestrian and bike data
- **Bikes are as numerous here as at Bow River Pathway**

Data highlights

- Most bikes in a day counted – **183** (Monday 5 Sept)
- Most people in a day counted – **586** (Friday 2 Sept)
- Most bikes in an hour counted – **30** (Sunday 11 Sept 2pm-3pm)
- Most people in an hour counted – **117** (Friday 2 Sept 8pm)
- **Average of 300-350 people/day**
- **Average of 100-120 bikes/day**

This report includes aggregated and de-identified data from Strava Metro
Edge UID 347598423

Bikes - Sept

Monthly Count – 3336
SUR – 8.2%, 12.1x

Walk - Sept

Monthly Count – 9400
SUR – 3.0%, 33.6x



Oct – Dec – James Walker Trail

- This is the only 'safe' pedestrian/cycling access across highway 22 on the south side of Cochrane and it's a ~1.5m sidewalk
- Tube counter for Oct 2022, and optical counter for Oct-Dec 2022
- This would be an ideal spot for **widening of this pathway** along with a **safety improvement for the highway 22 crossing** (80 km/hr vehicles at this location)
- Two elementary schools are now open on west side of highway (Holy Spirit and Fireside) along with Bow Valley High on the east side
 - Making this a safer corridor would allow for better 'wheel and walk to school' – see 'Bike to School' survey in 2021 highlighting this intersection as a safety concern to parents

Bikes – Oct

Monthly Count – 433
SUR – 5.8%, 17.3x

Walk – Oct, Nov, Dec

Monthly Count – 1626,
1123, 1250
SUR – 2.5%, 40.7x

Data highlights

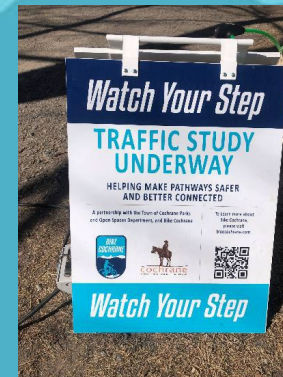
- **Average of 50-70 people/day**
- **Average of 20-30 bikes/day (until it gets cold)**
- **Very poor SUR for bikes in 'bike to school' routes (few Strava counts during school times, except in summer)**
- **Both counters show 'commute' times but Strava doesn't (kids under 18 can't/don't use Strava)**

This report includes aggregated and de-identified data from Strava Metro
Edge UID 347596381



2022 Summary and Thoughts

- **Recreational cycling usage** translates to SUR >10-20%, so use **correlation factors of ~5-10x**
 - This aligns with initial estimates from Bike Cochrane on using Strava data
- Sidewalks and **'bike to school' corridors** are less likely to be using Strava and we see SUR >2-5%, so use **20-50x multipliers**
 - This is bit higher than expected from Bike Cochrane estimates
 - Strava appears to not allow people <18 years old to be counted, or at least doesn't present their data for aggregation
- Ensure Strava segment exists before choosing count location
- Ecocounter Pyro Box had firmware issues that caused initial data integrity problems
 - Document the 'best practices' methodology for gathering data well using these counters as the data is quite rich and worth getting
- Quigley Drive appeared to show a 4x reduction in counted bikes (from May 2021 to May 2022) and it's unclear why
 - That reduction was also seen in June 2022
- Both Bow River Pathway and CP Rail crossing in Heartland showed very high usage with bikes counted at **~100-120/day** and **people counted at ~300-600 people/day**
 - **Great potential for a permanent counter like Eco-Counter ZELT or similar**



Proposed 2023 Traffic Counting Plan

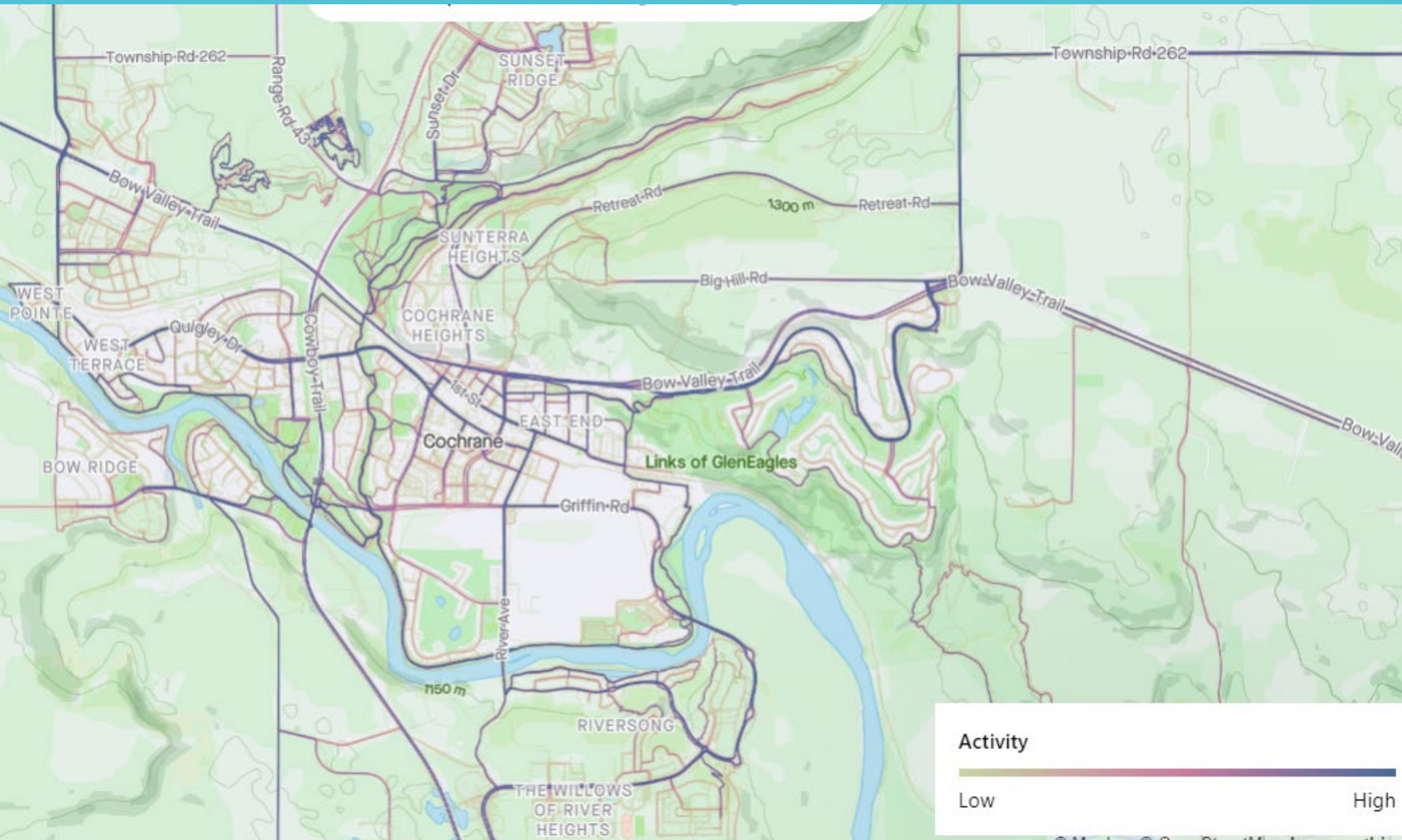
- Focus on pre- and post- implementation of a protected cycle lane (Quigley, Railway, or downtown location)
- Work to correlate desired routes with COLT/Roll data sets
- May – Towers Trail
 - It's doubtful this sees much walking traffic but Strava says it does
- June – Bow Bridge at Highway 22
 - MOST commented safety issue by Bike Cochrane members and to the Parks/Rec committee
- July – Bow River Pathway
 - Continued counting
- August – RR43 near Cochrane BMX or Griffin Road somehow
 - Cochrane Lakes commute route
- Sept – Glenbow Bike Lane
 - Bike Cochrane speculates that the sidewalks are used more than the bike lane -> can we prove it?
- Oct – Gleneagles Drive
 - This sees a significant amount of road bike traffic as it's moving from hwy 1A



Appendix

Raw data and analysis

Strava Metro heat map Dec 2021-Nov 2022 - Biking

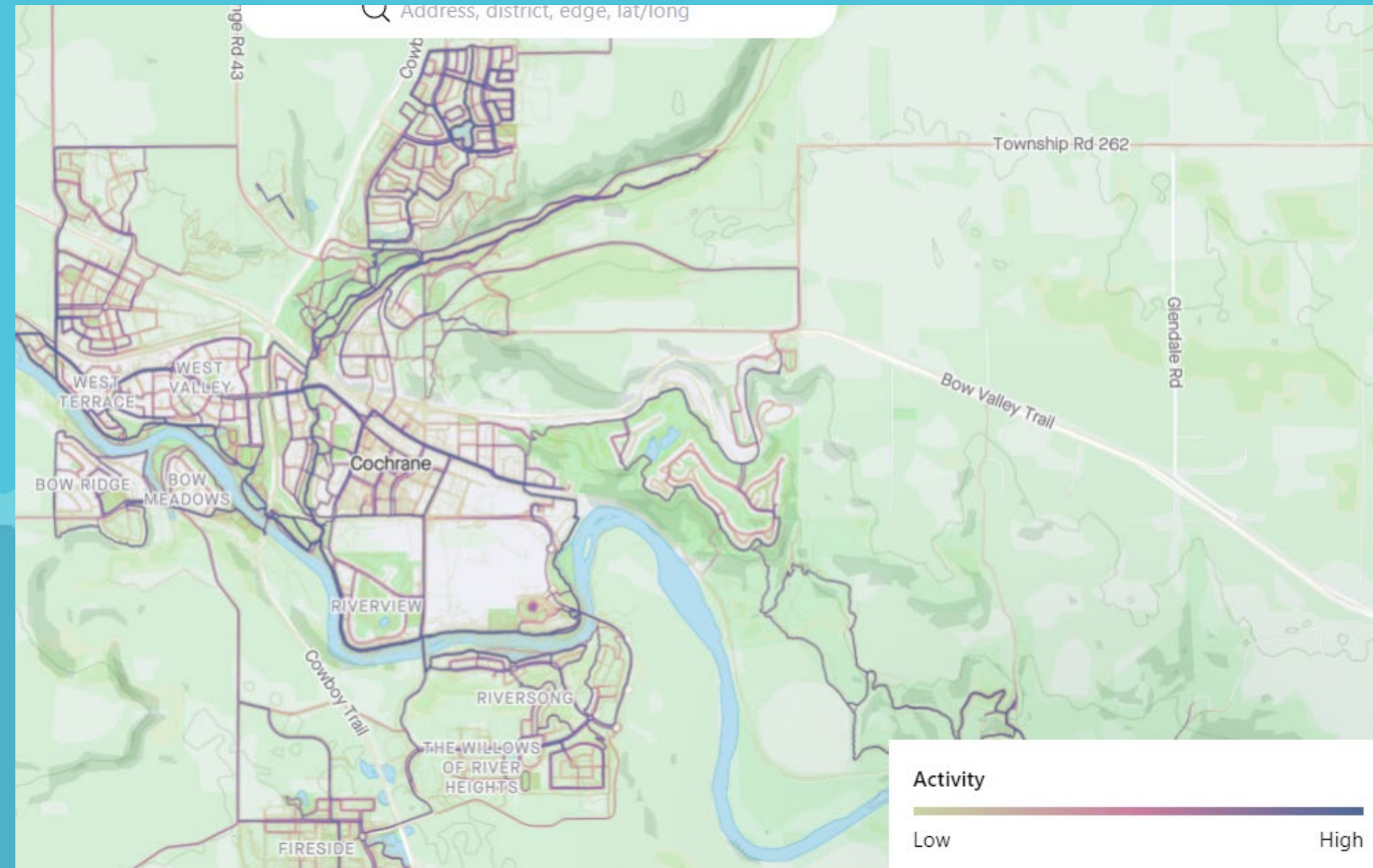


Notes on differences from 2020-2021

- Buffalo Bean way up in usage
- Bikes moved off 1A and onto Gleneagles Drive
- James Walker Trail used heavily
- Quigley/Glenbow/Railway used heavily
- Increase in trail usage in Sunset/Ranche
- Seminary Cyclocross race is evident



Strava Metro heat map Dec 2021-Nov 2022 - Foot

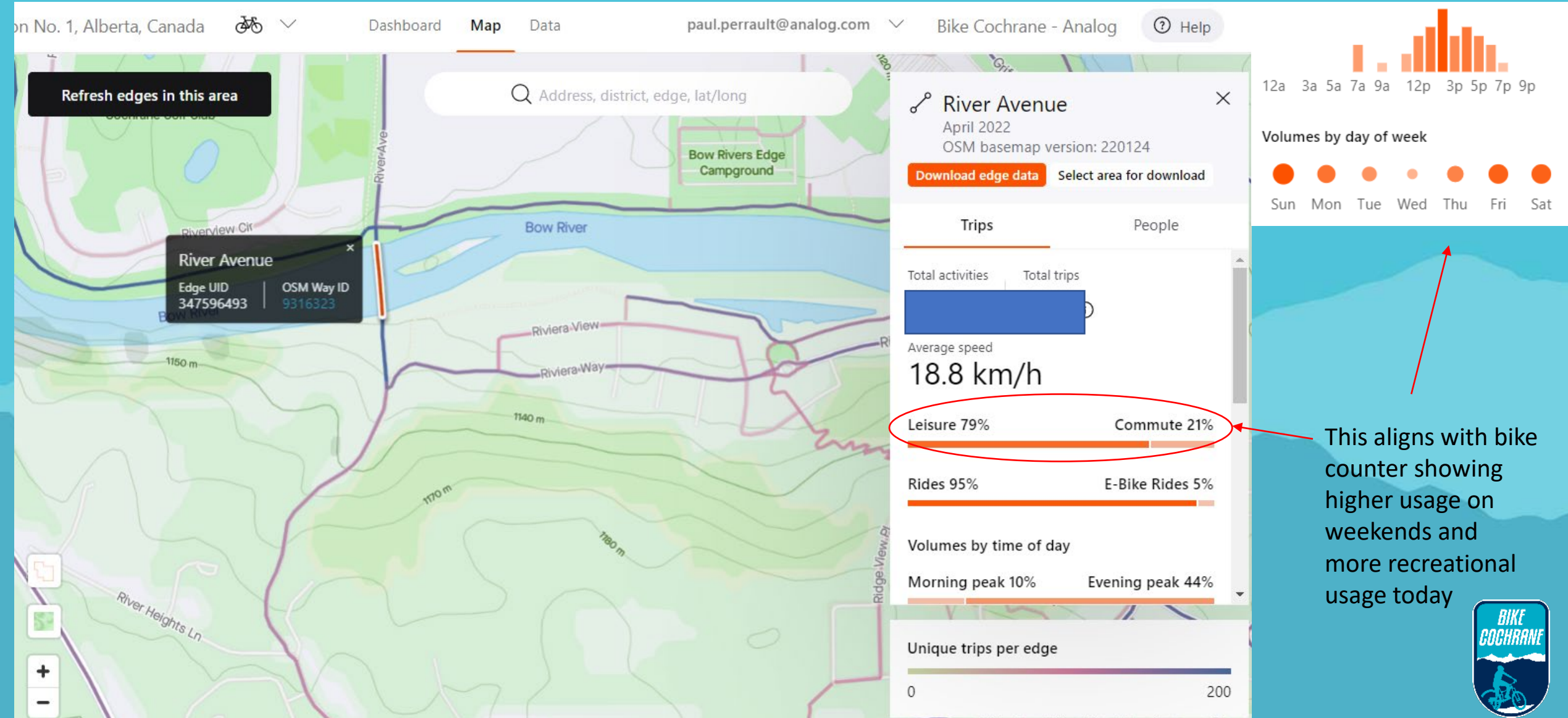


Notes on differences from 2020-2021

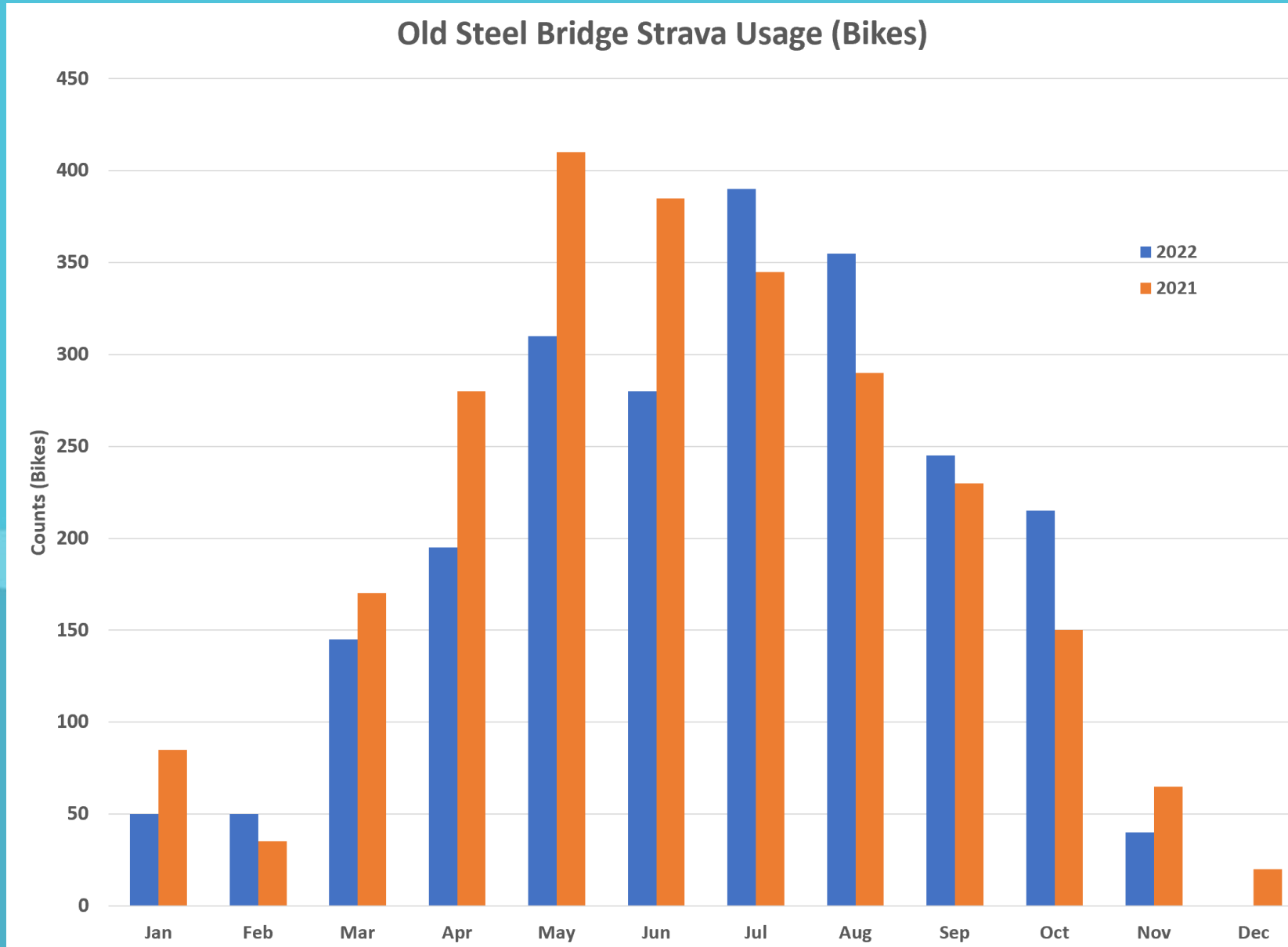
- Lots of running in Sunset (all roads)
- Bow River Pathway used aggressively
- Small amount of hiking on Buffalo Bean
- Good use of Glenbow Ranche trails
- Surprising foot traffic on Towers Trail
- High usage on Retreat Road



April – Strava data for Bow bridge near area



April location Strava data for this edge 2021-22



Given the amount of recreational usage, it's likely that the SUR is ~5-10x (choose 7)

**Estimated cyclists/year
on the bridge
16,000-17,000**



May – Strava data for Quigley - Bike

Division No. 1, Alberta, Canada



Dashboard

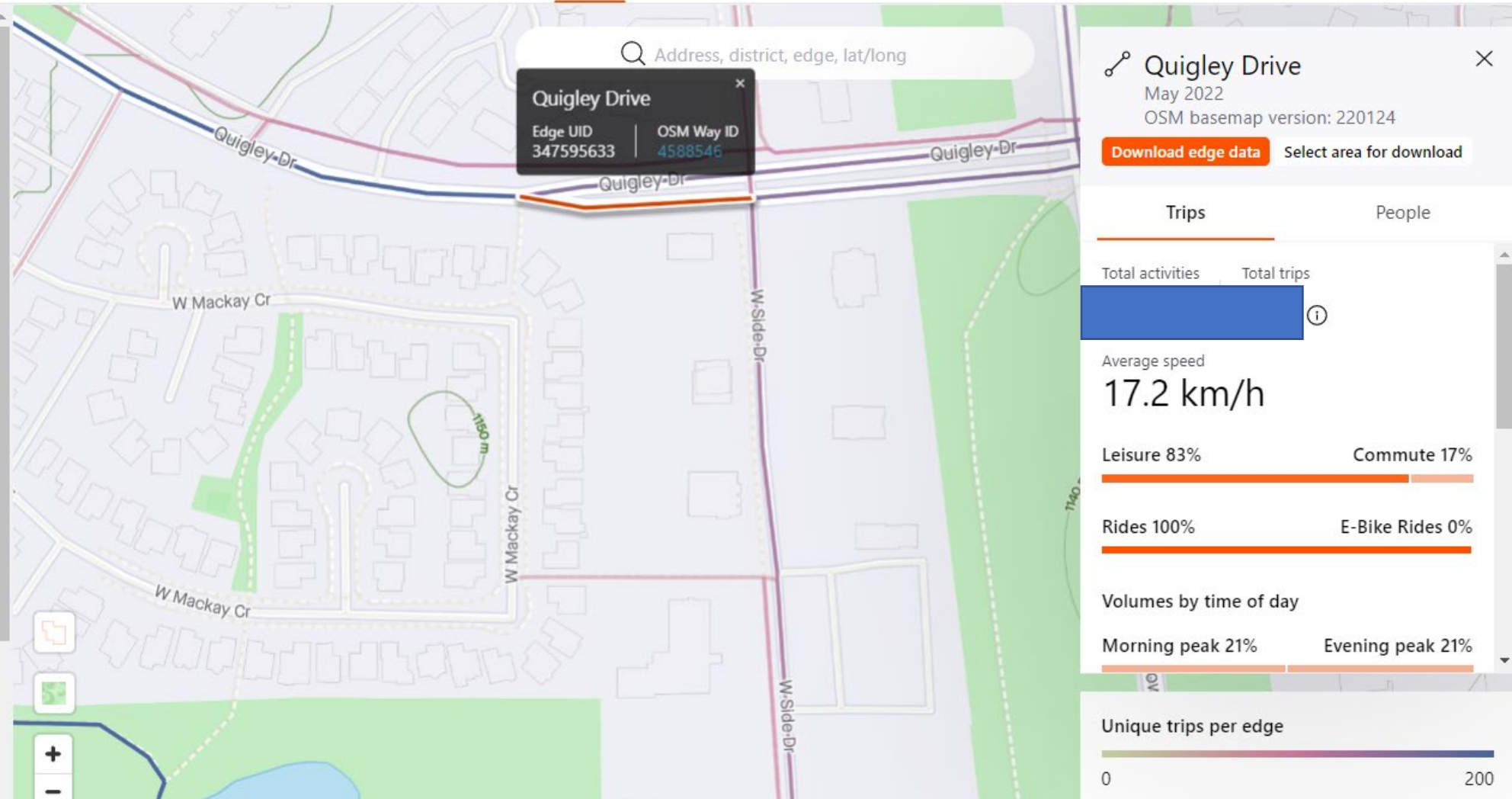
Map

Data

paul.perrault@analog.com

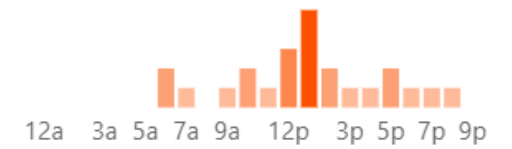
Bike Cochrane - Analog

Help



Trips

People



Volumes by day of week



June – Strava data for Quigley - Bike

on No. 1, Alberta, Canada



Dashboard

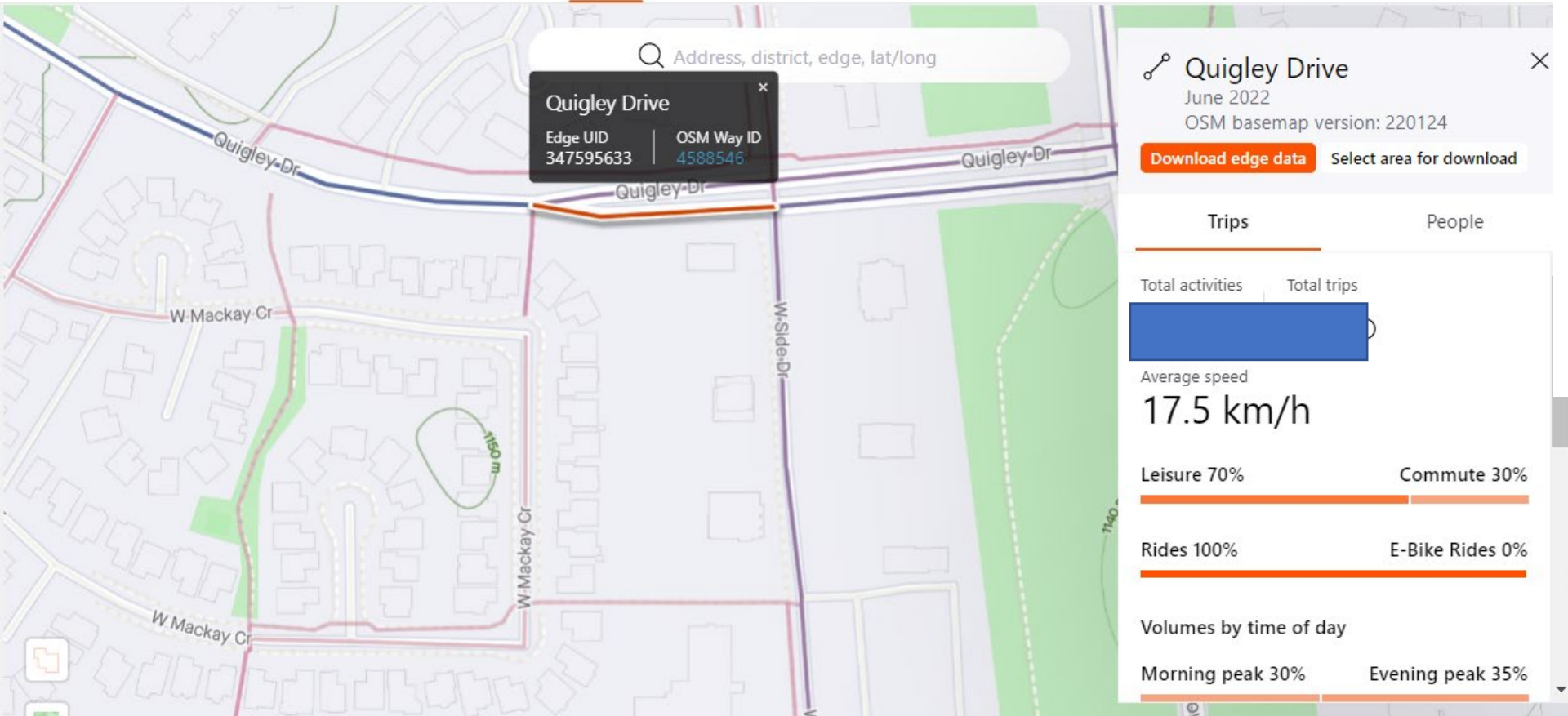
Map

Data

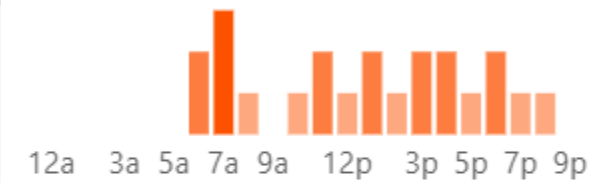
paul.perrault@analog.com

Bike Cochrane - Analog

Help



Volumes by hour



Volumes by day of week



May – Strava data for Quigley - Walk

on No. 1, Alberta, Canada | Dashboard | Map | Data | paul.perrault@analog.com | Bike Cochrane - Analog | Help

Search: Address, district, edge, lat/long

Quigley Drive
Edge UID: 347595633 | OSM Way ID: 4588546

Quigley Drive
May 2022
OSM basemap version: 220124
[Download edge data](#) | Select area for download

Trips | People

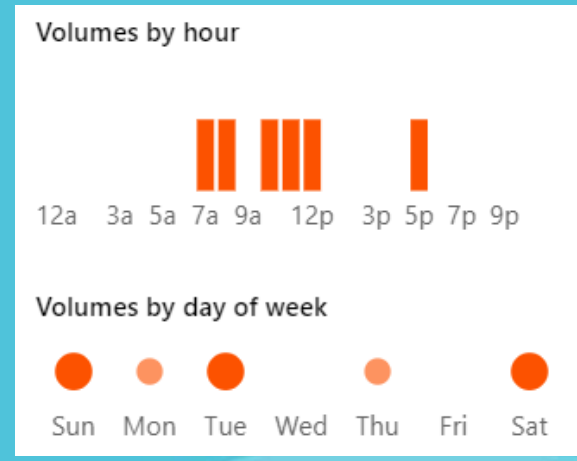
Total activities | Total trips

Average speed
8.5 km/h

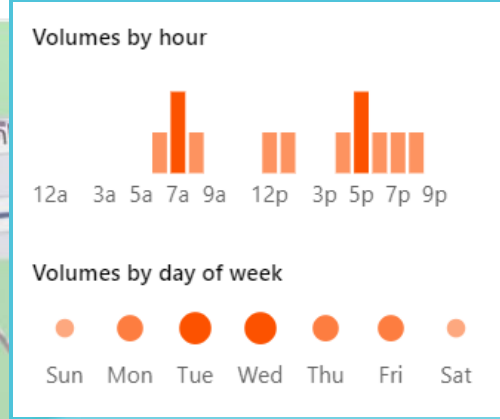
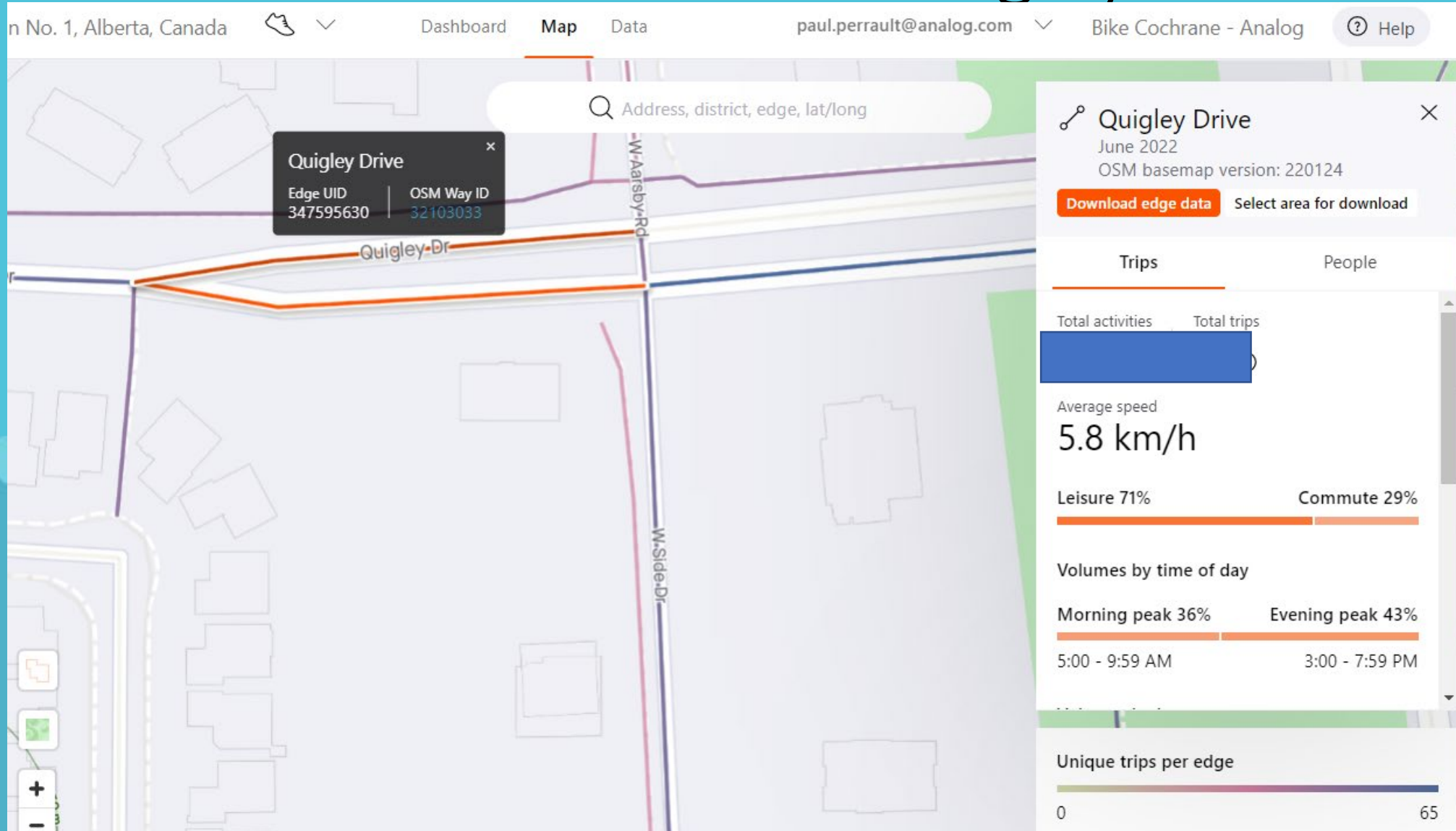
Leisure 75% | Commute 25%

Volumes by time of day
Morning peak 38% | Evening peak 25%
5:00 - 9:59 AM | 3:00 - 7:59 PM

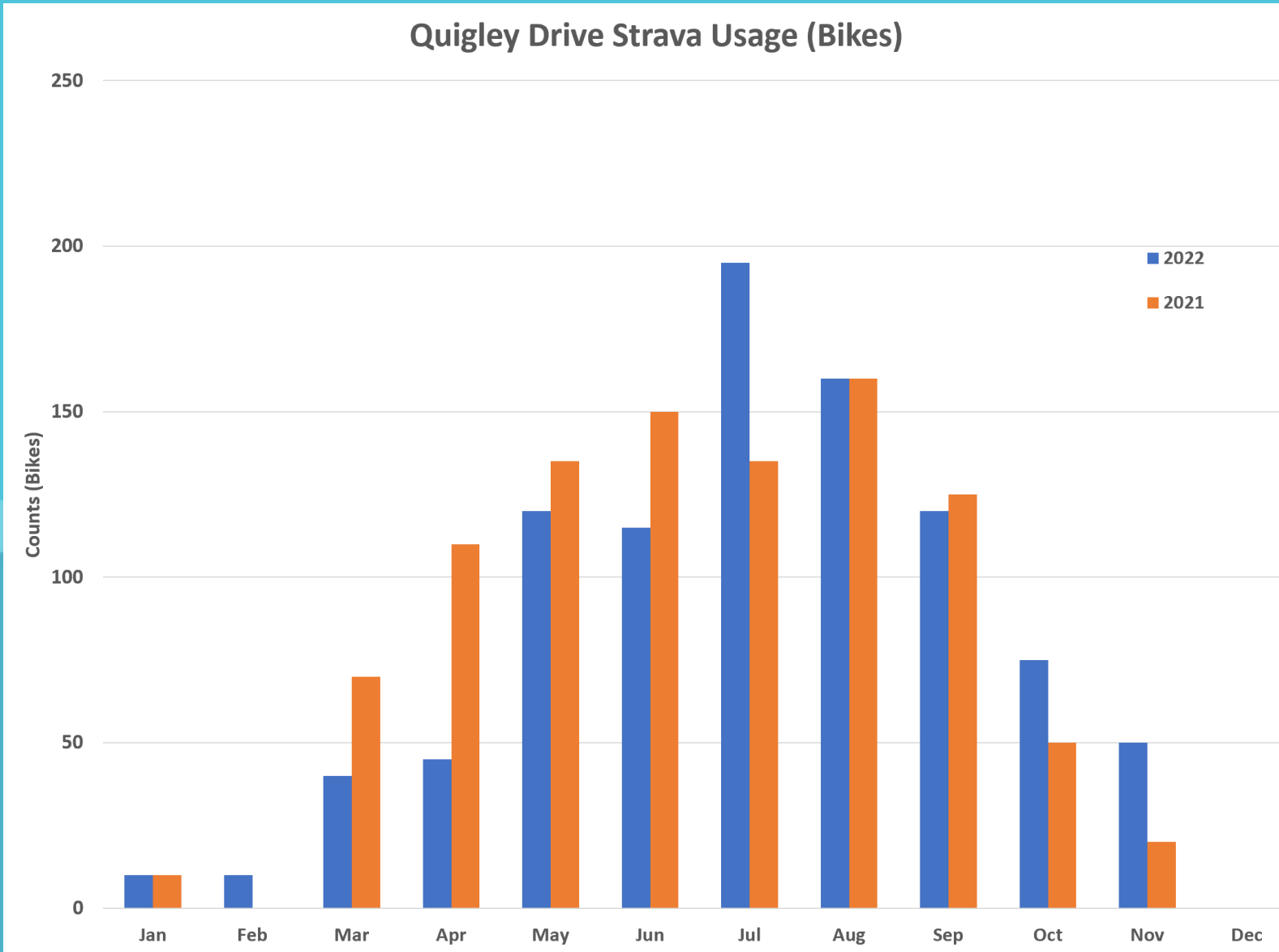
Unique trips per edge



June – Strava data for Quigley - Walk



Quigley Strava data - bikes



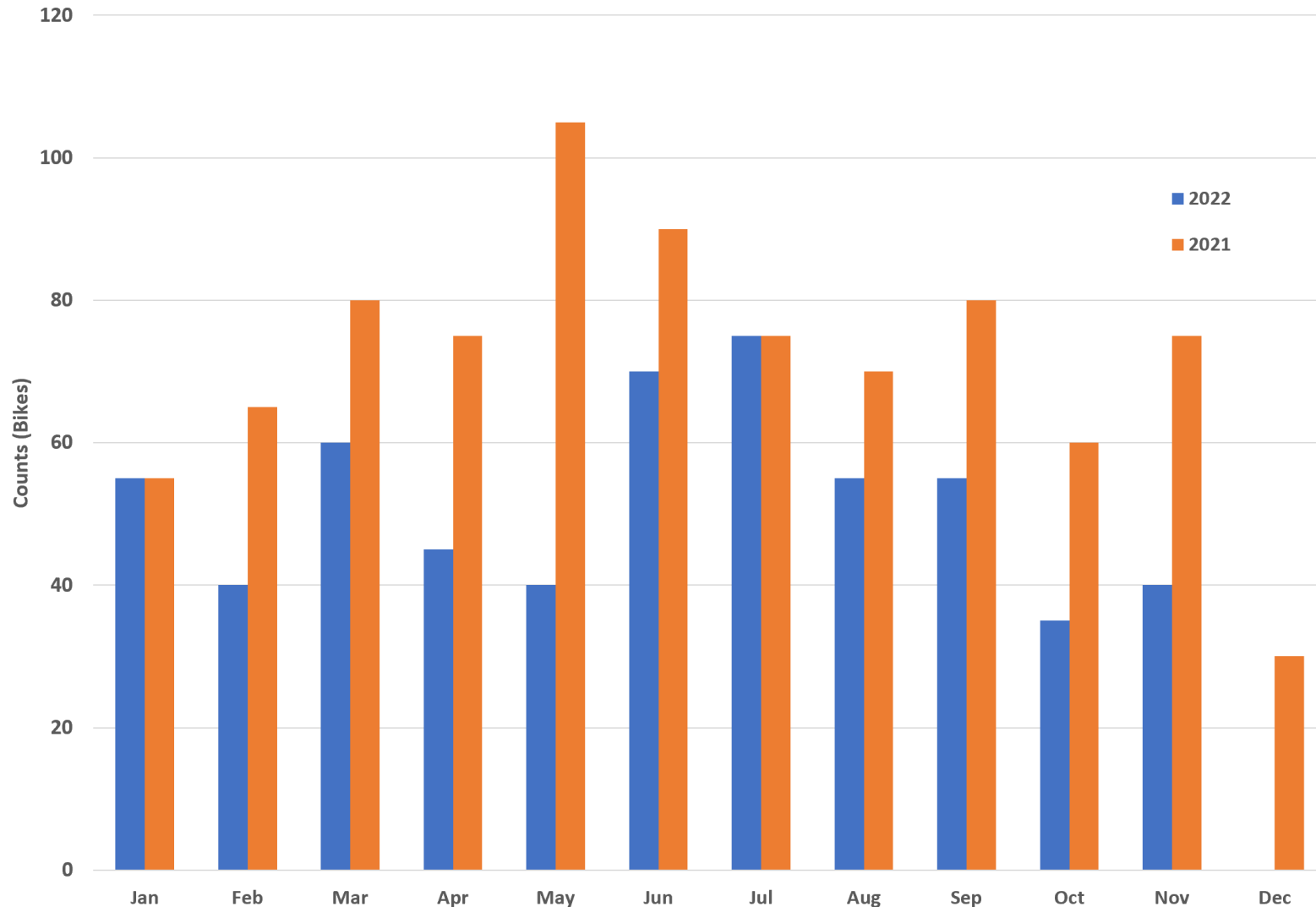
Notes

- The monthly bike counts per Strava didn't change from 2021 to 2022 but the actual counts dropped by 4x
- **Did more kids biking to school stop biking to school in 2022??**
- Or did I have an issue with the counter -> the hourly data looks consistent across the 60 days
- Looking at the 2021 tube counter data, it's simply higher than 2022 by a good bit



Quigley Strava data - foot

Quigley Drive Strava Usage (Foot))



Notes

- Pretty low Strava foot traffic
- It doesn't look like Strava is that useful for foot traffic on sidewalks at least
- Interesting to see what the pathway studies show




May/June Ped data

From Eco Counter Pyro Box -> I may have inadvertently removed the data from the last two months as it wouldn't download properly. I showed ~4500 counts for this period though

Combined by user types and by direction of travel

Counts since Wed 4 May 2022 at 22:21

| | | |
|---|------------|---------------|
|  | IN | 11 485 |
|  | OUT | 11 987 |

Daily traffic

📅 Current Year

📍 Quigley Drive by Palm Trees South side



Counts from Quigley Drive

Key Figures Summary

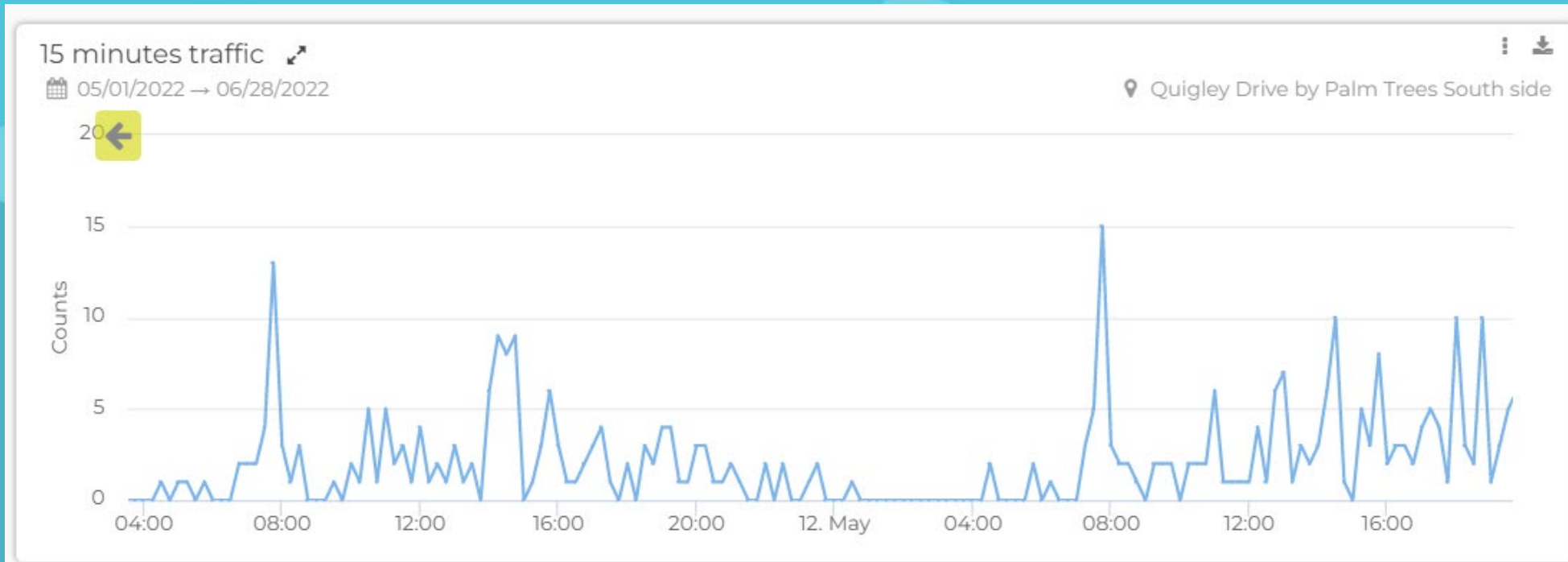
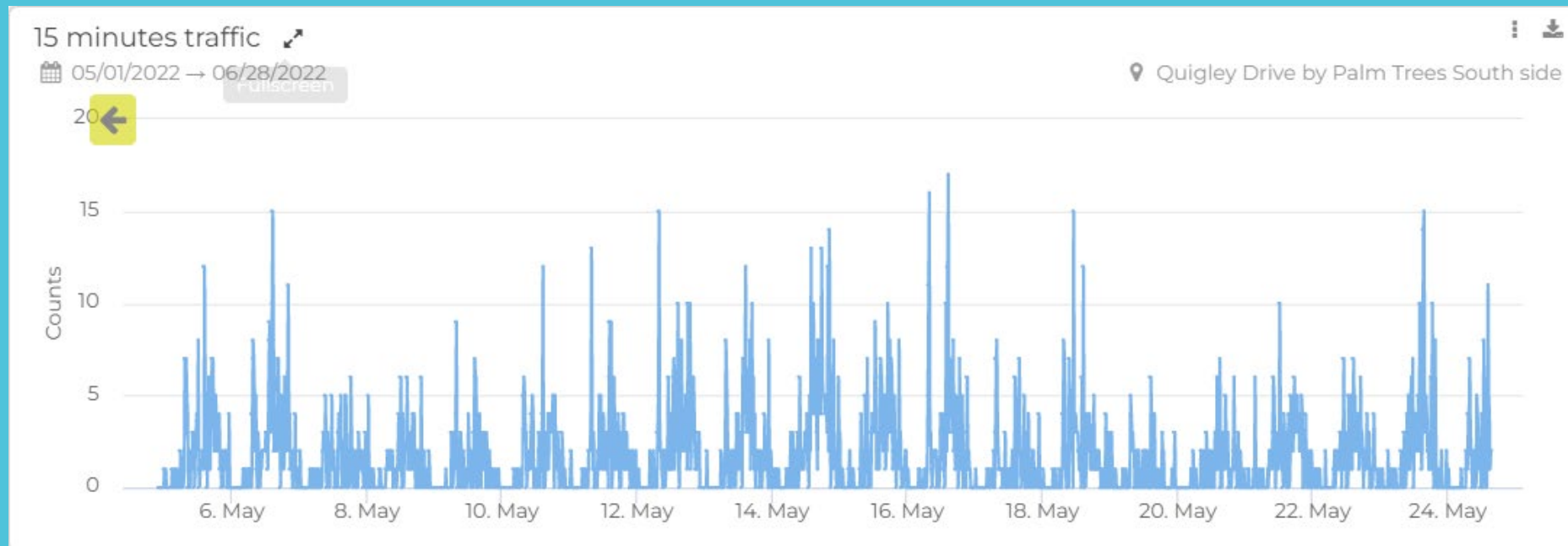
📅 Current Year

📍 Quigley Drive by Palm Trees South side 🟡 Total IN OUT

| Site | Total | Daily Average | Peak Day | Peak Count |
|---|-------|---------------|------------------|------------|
| Quigley Drive by Palm Trees South side | 3,136 | 149 | Sat May 14, 2022 | 263 |
| Quigley Drive by Palm Trees South side Pedestrian northbound | 1,608 | 77 | Sat May 14, 2022 | 149 |
| Quigley Drive by Palm Trees South side Pedestrian crossing tracks | 1,528 | 73 | Sat May 14, 2022 | 114 |



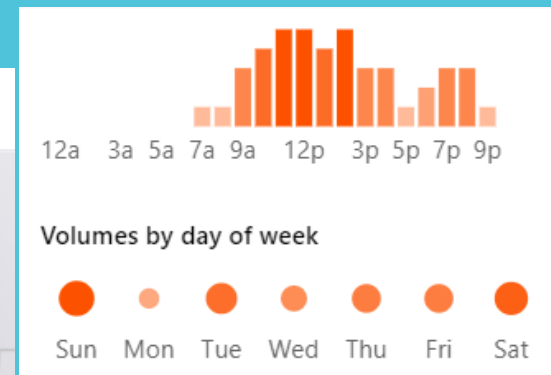
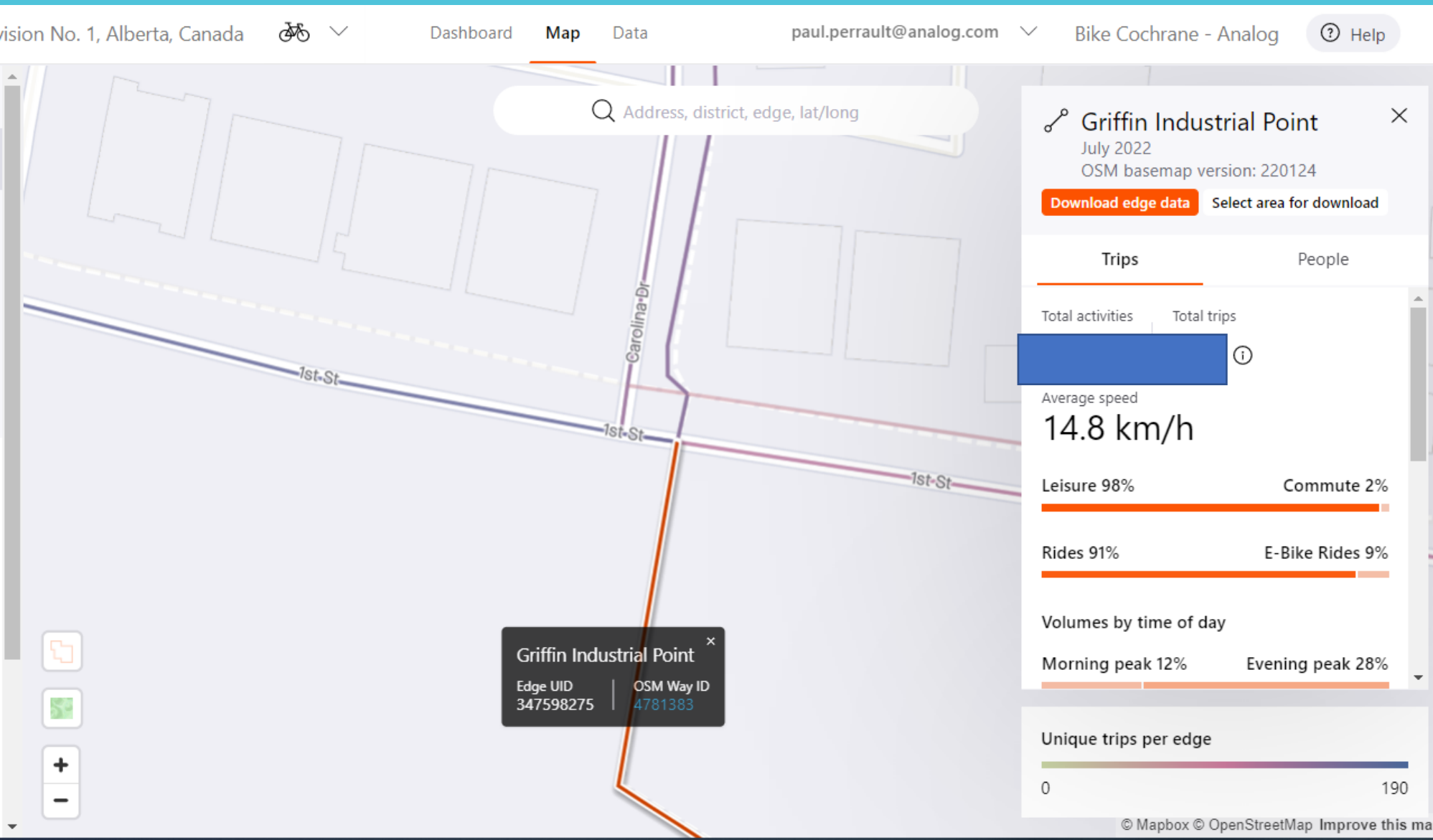
May/June Ped data



Shows similar bike to school patterns in 7am to 8am and early afternoon traffic



Carolina Drive Strava data - bikes



This looks like a predominantly recreational corridor based on time of day and day of week traffic



Carolina Drive Strava data - foot

ion No. 1, Alberta, Canada | Dashboard | Map | Data | paul.perrault@analog.com | Bike Cochrane - Analog | Help

Address, district, edge, lat/long

Griffin Industrial Point
Edge UID: 347598275 | OSM Way ID: 4781383

Griffin Industrial Point
July 2022
OSM basemap version: 220124
Download edge data | Select area for download

Trips | People

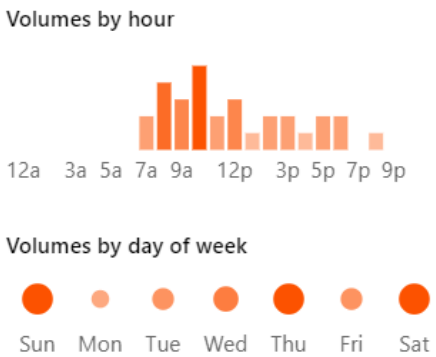
Total activities | Total trips

Average speed
8.2 km/h

Leisure 93% | Commute 7%

Volumes by time of day
Morning peak 33% | Evening peak 23%
5:00 - 9:59 AM | 3:00 - 7:59 PM

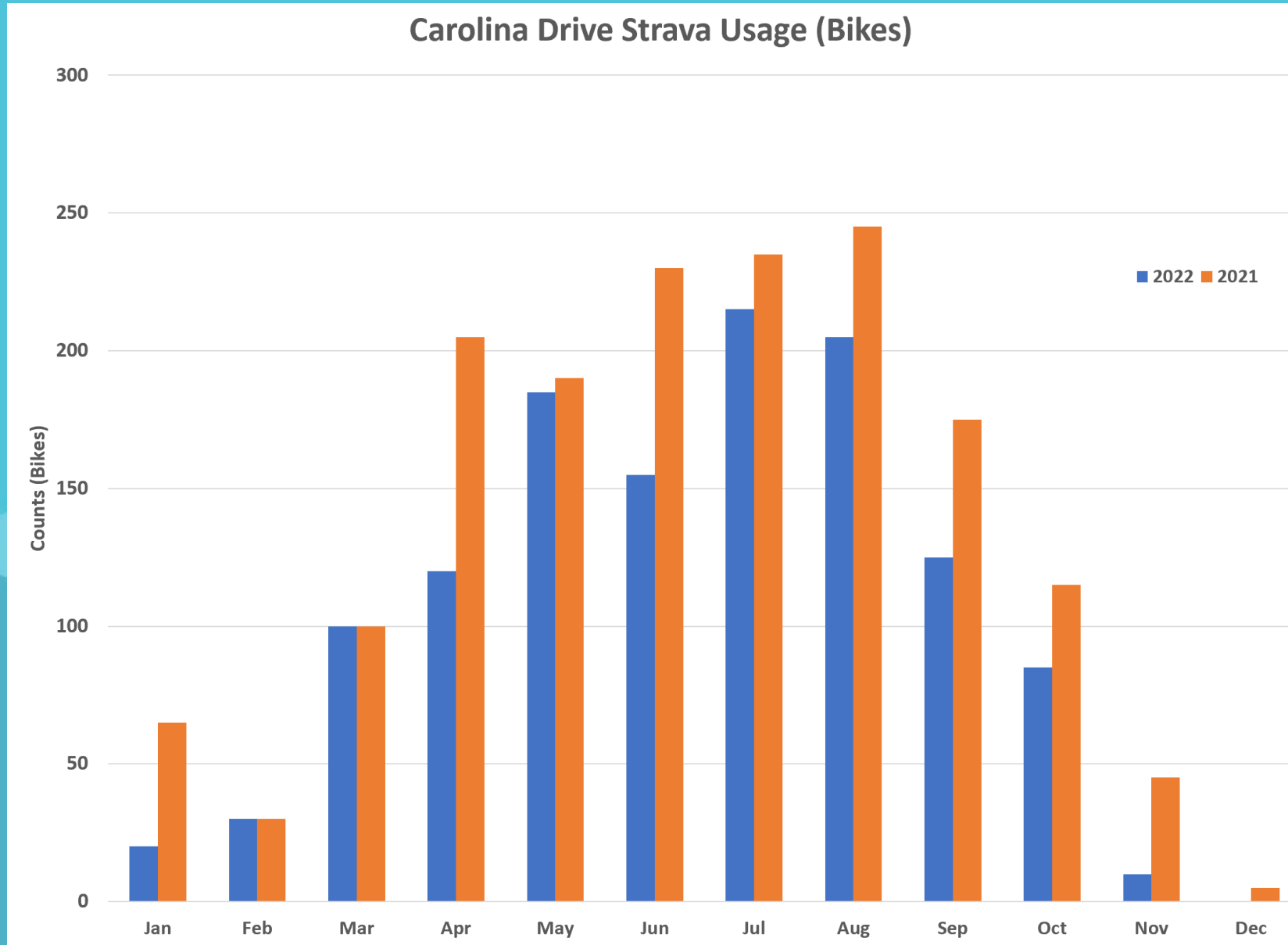
Unique trips per edge
0 | 120



This looks like a predominantly recreational corridor based on time of day and day of week traffic



Carolina Drive Strava Data - bike

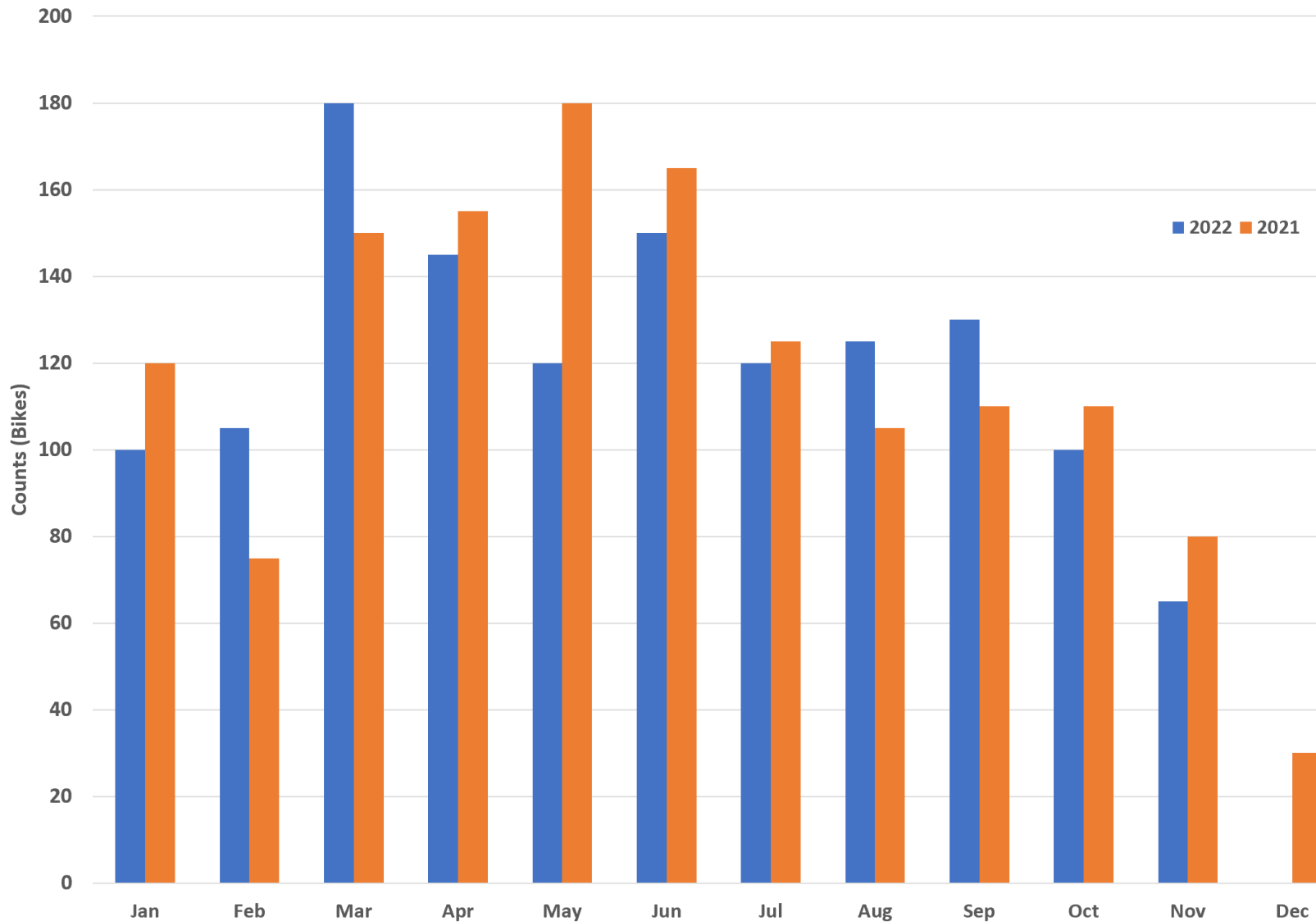


- This counts how many bikes logged their rides through this zone
- This doesn't count how many WOULD ride this route if it were connected to Railway Street



Carolina Drive Strava Data - foot

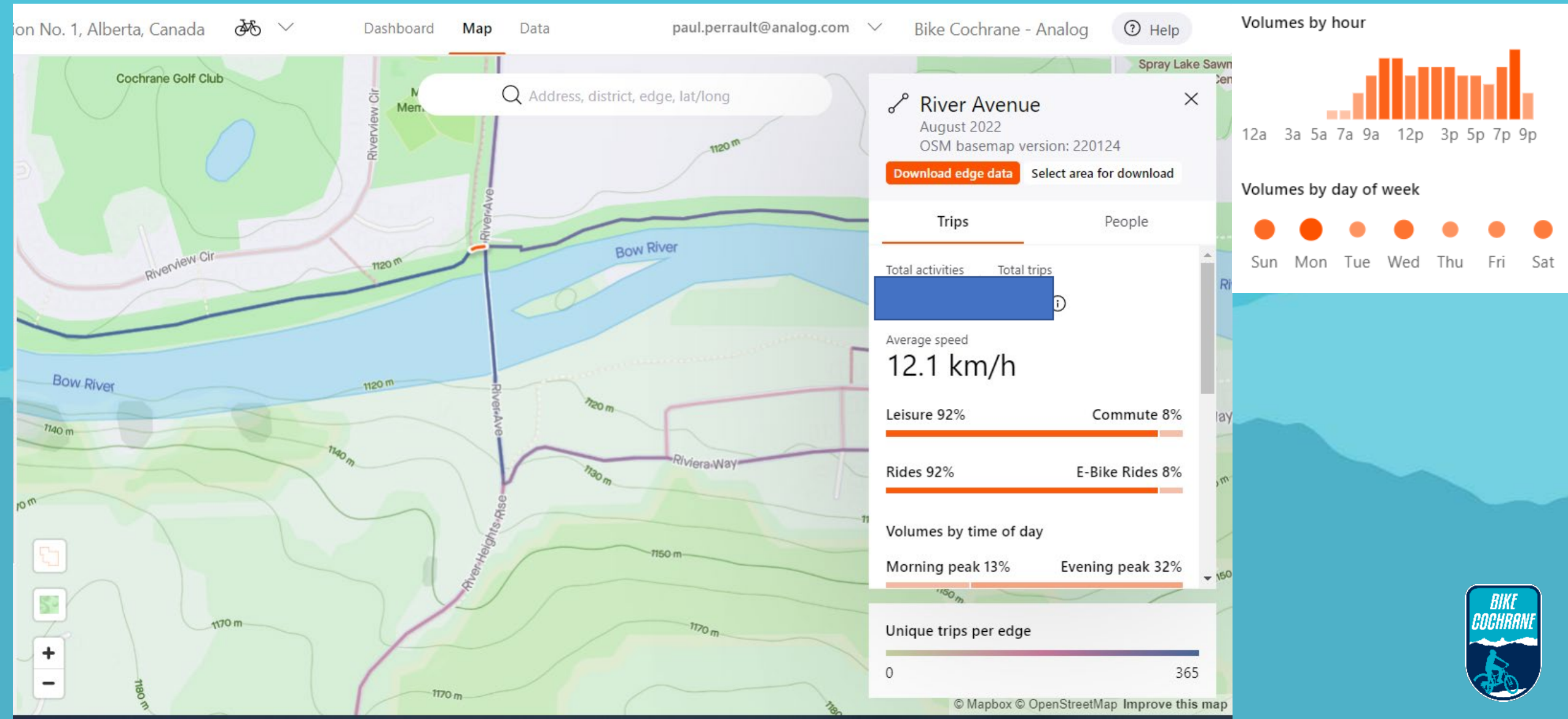
Carolina Drive Strava Usage (Foot)



- Relatively high foot counts even in winter showing that people continue to walk paved pathways, even when it's relatively cold out



Bow River Pathway Strava data - bikes



Bow River Pathway Strava data - foot

ion No. 1, Alberta, Canada | Dashboard | Map | Data | paul.perrault@analog.com | Bike Cochrane - Analog | Help

Search: Address, district, edge, lat/long

River Avenue

August 2022
OSM basemap version: 220124

[Download edge data](#) | Select area for download

Trips | People

Total activities | Total trips

Average speed
8.5 km/h

Leisure 95% | Commute 5%

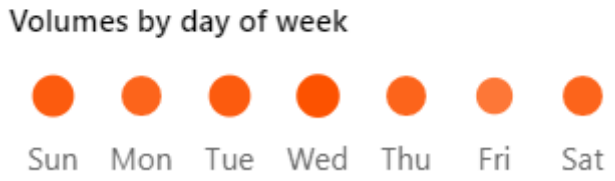
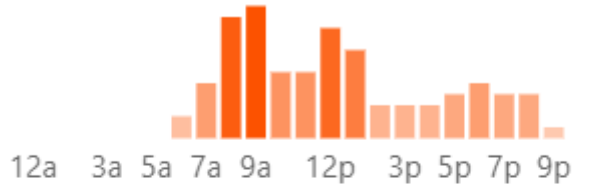
Volumes by time of day

Morning peak 34% | Evening peak 22%

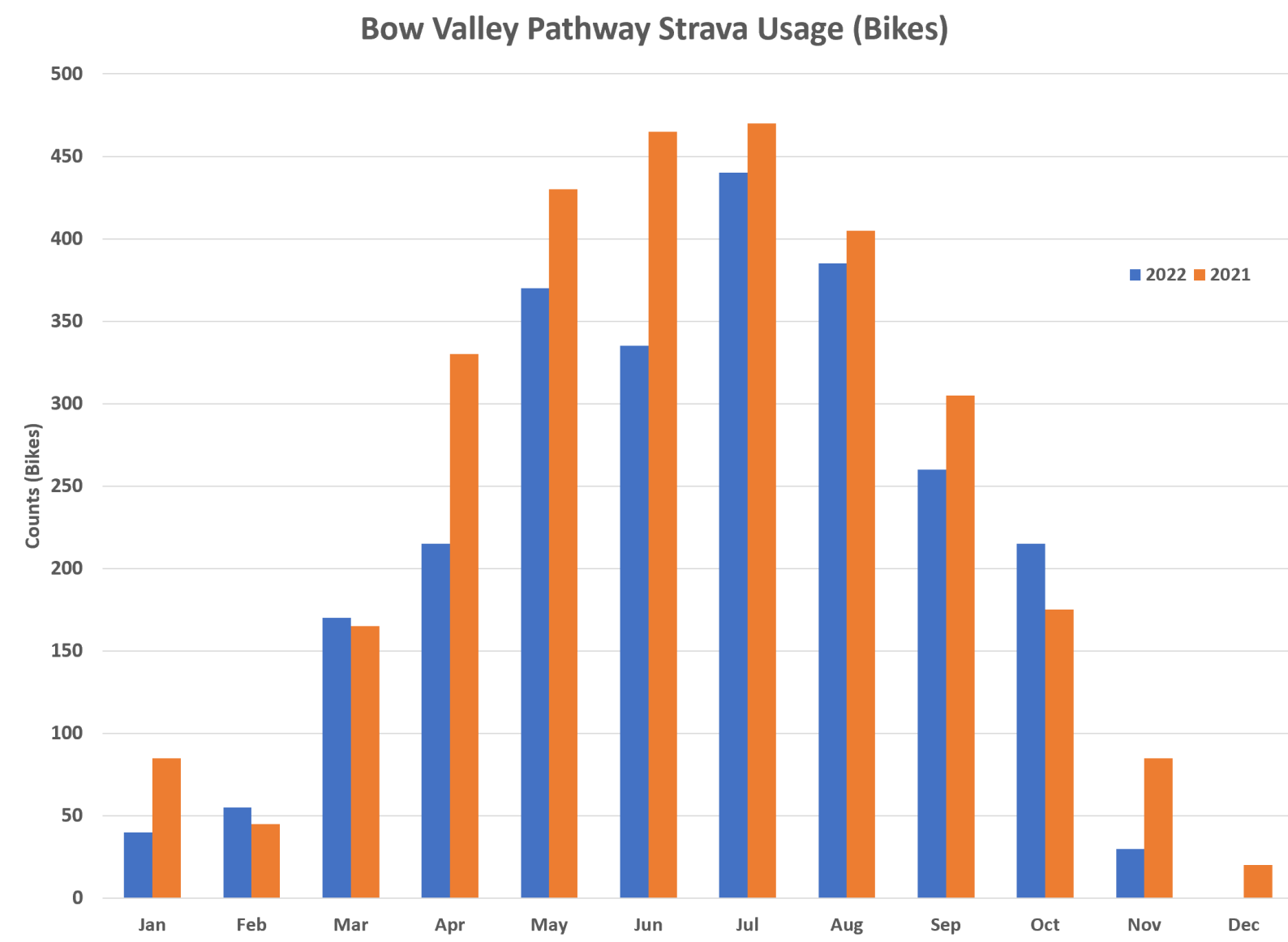
5:00 - 9:59 AM | 3:00 - 7:59 PM

Unique trips per edge

0 | 435

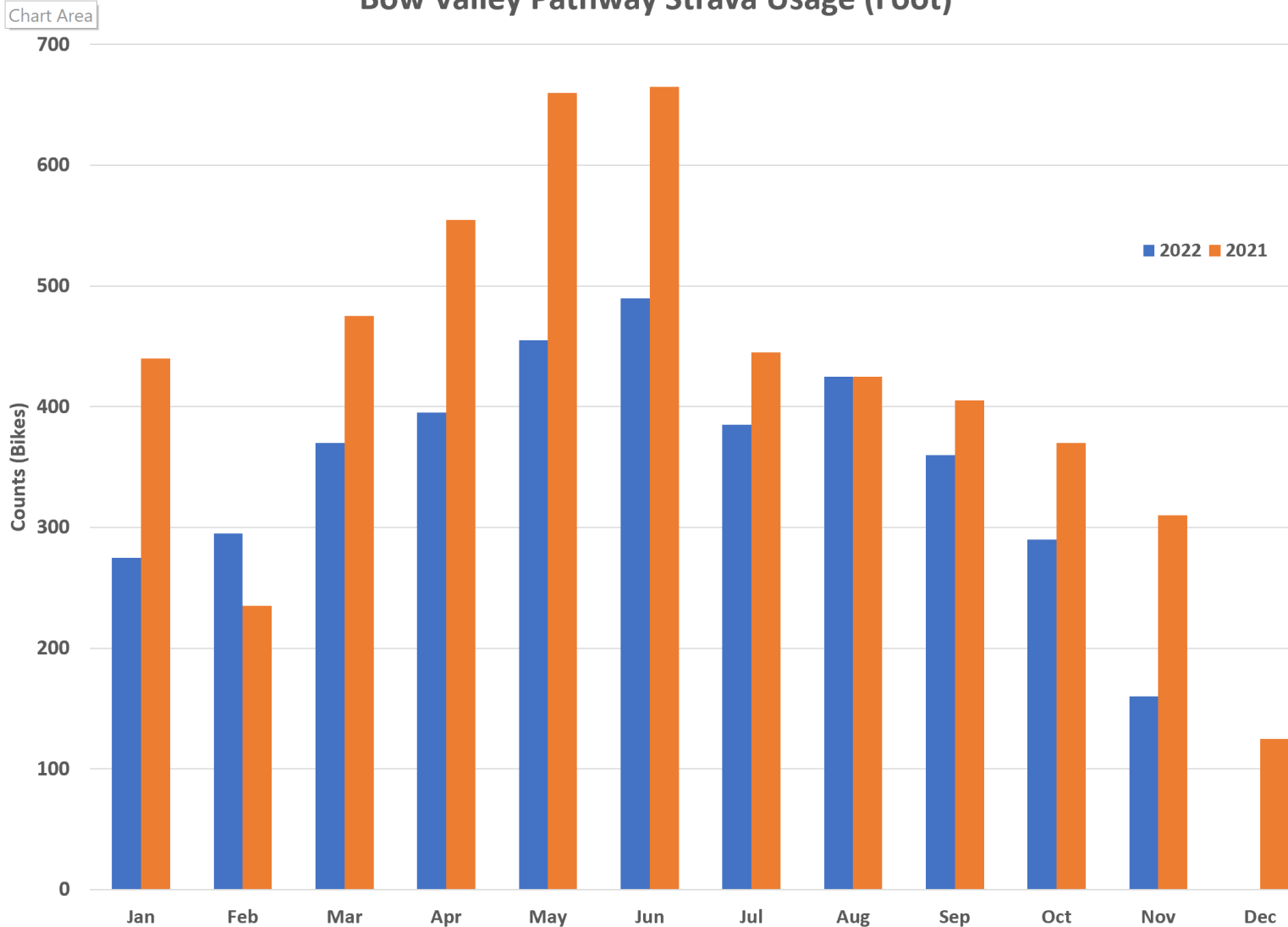


Bow River Pathway Strava data - bikes



Bow River Pathway Strava data - foot

Bow Valley Pathway Strava Usage (Foot)



- 2022 numbers have dropped a bit since 2021 speculated due to the end of the pandemic and people traveling more from Cochrane
- Walking continues to be more 'weather-insensitive' relative to cycling



Bow River Pathway ped data (Ecocounter)



Key Figures Summary

Last Year

Bow River Pathway (by iron bridge)

| Site | Total | Daily Average | Peak Day | Peak Count |
|---|--------|---------------|------------------|------------|
| Bow River Pathway (by iron bridge) | 23,130 | 551 | Sat Aug 6, 2022 | 900 |
| Bow River Pathway (by iron bridge) Pedestrian IN | 11,908 | 284 | Sat Aug 6, 2022 | 494 |
| Bow River Pathway (by iron bridge) Pedestrian crossing tracks | 11,222 | 267 | Sun Aug 28, 2022 | 409 |

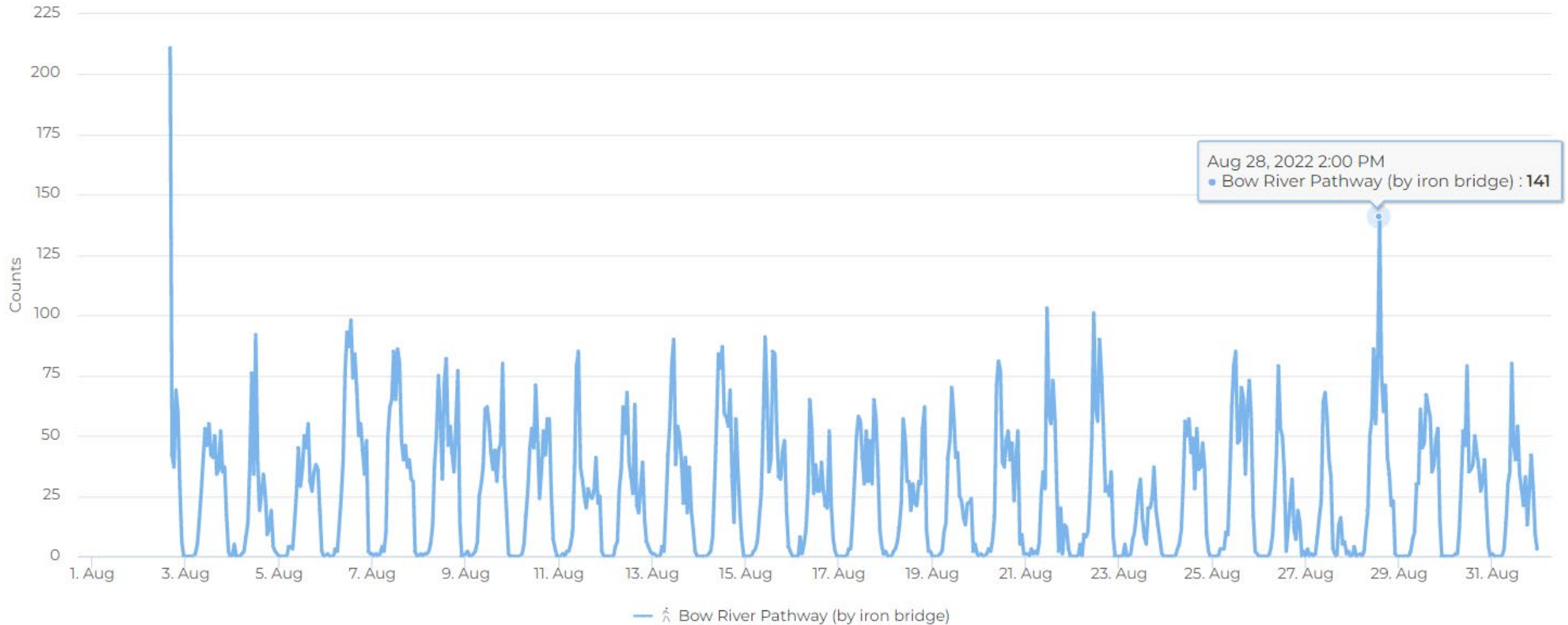


Hourly ped data – Bow River Pathway

Hourly traffic

08/01/2022 → 08/31/2022

Bow River Pathway (by iron bridge)



Heartland Strava data - bikes

on No. 1, Alberta, Canada Dashboard **Map** Data paul.perrault@analog.com Bike Cochrane - Analog Help

Refresh edges in this area

Address, district, edge, lat/long

Quigley Drive
September 2022
OSM basemap version: 220124
[Download edge data](#) Select area for download

Trips People

Total activities Total trips

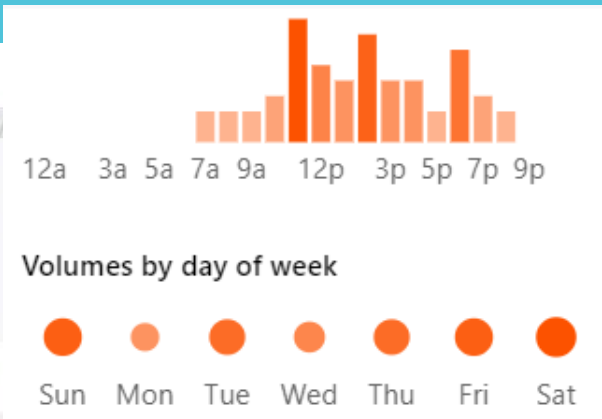
Average speed
16.0 km/h

Leisure 91% Commute 9%

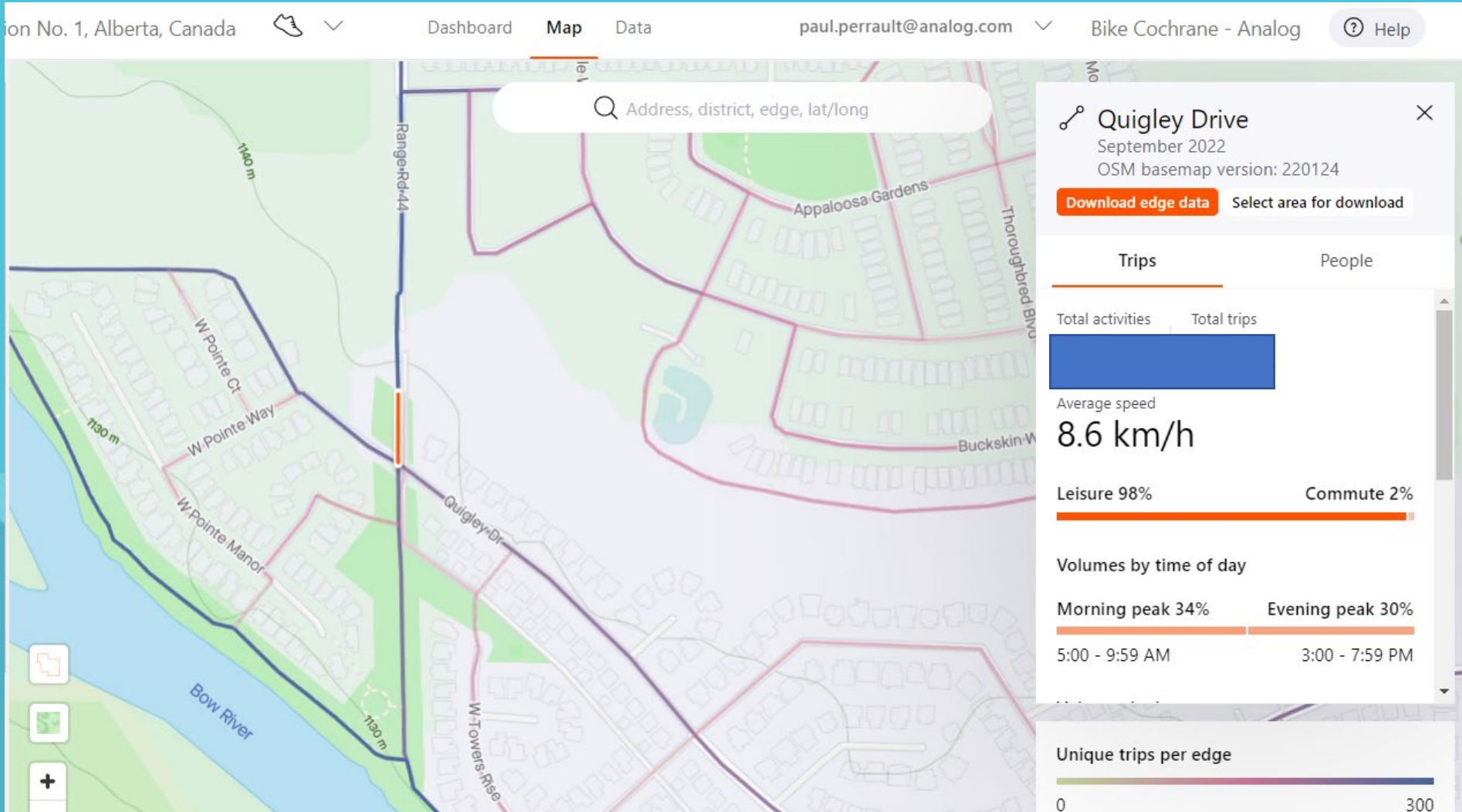
Rides 98% E-Bike Rides 2%

Volumes by time of day
Morning peak 11% Evening peak 36%

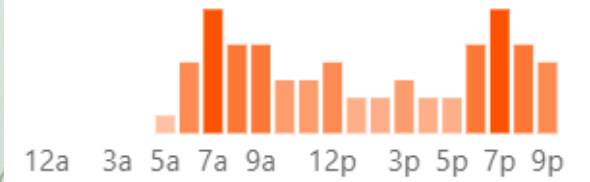
Unique trips per edge
0 255



Heartland Strava data - foot



Volumes by hour

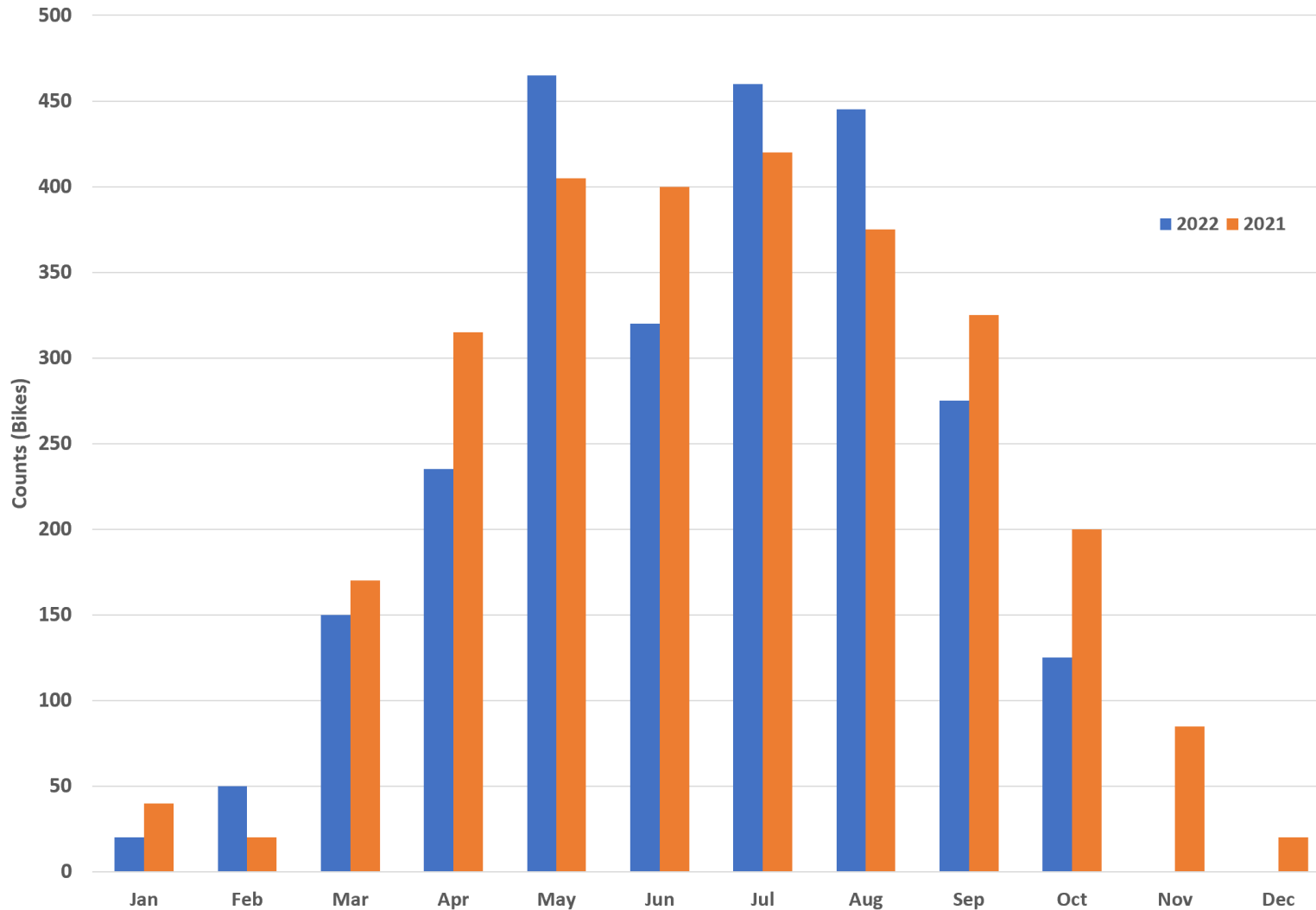


Volumes by day of week



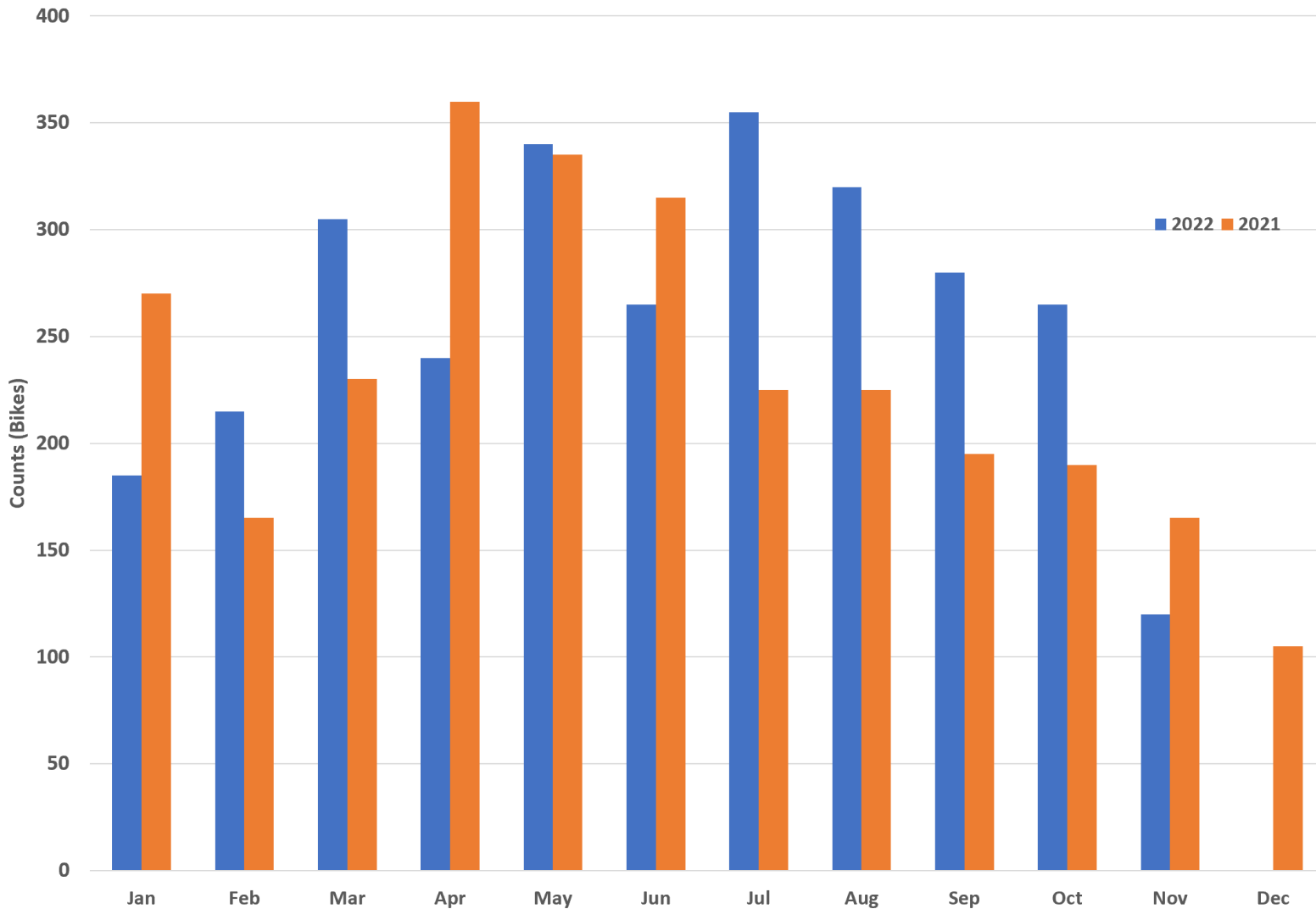
Heartland Strava data - bikes

Heartland CP crossing Strava Usage (Bikes)



Heartland Strava data - foot

Heartland CP crossing Strava Usage (Foot)



Heartland daily ped data

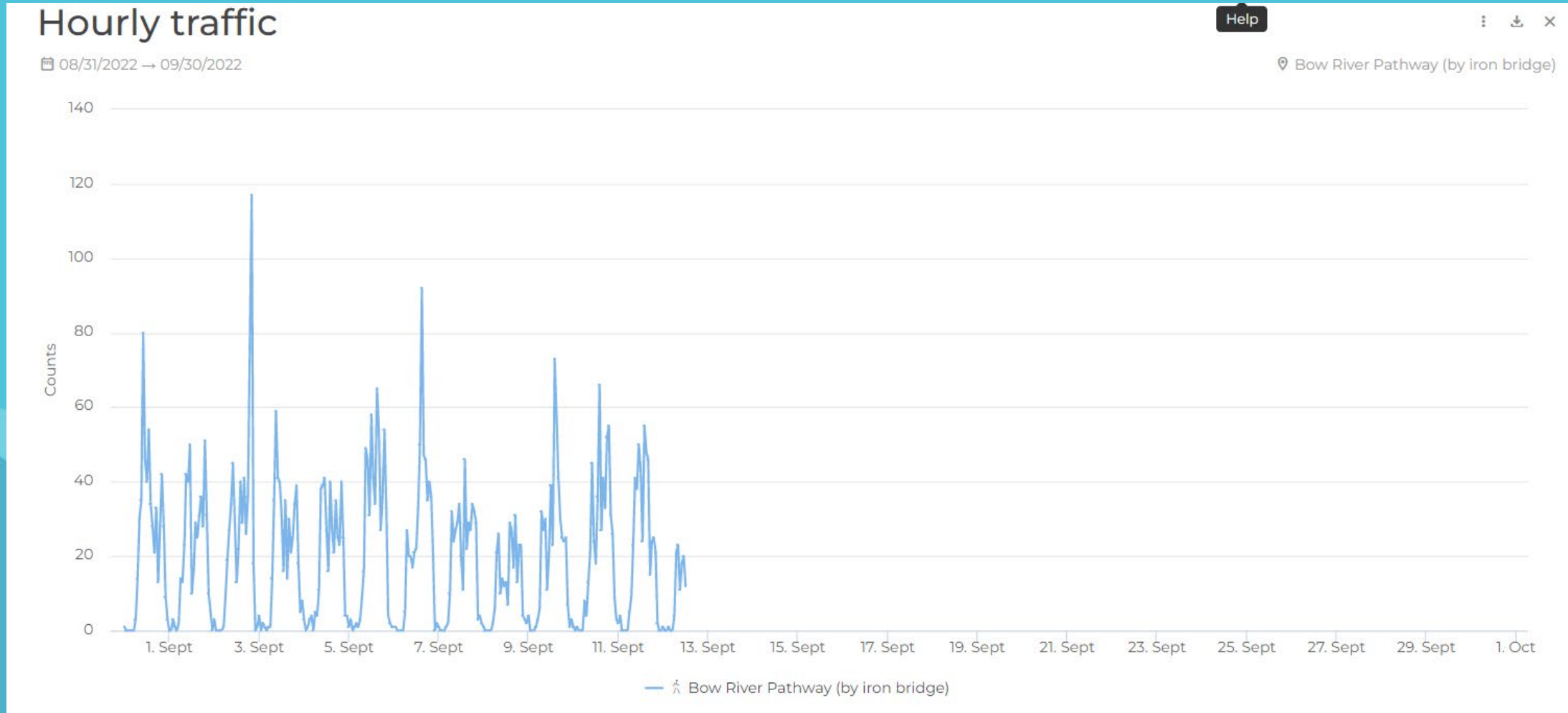
Daily traffic

08/31/2022 → 09/30/2022

Bow River Pathway (by iron bridge)



Heartland hourly ped data



Not sure how this got missed/didn't update somehow - > I did get final numbers before moving it



James Walker bike counts - Oct

WeeklyVehicle-13 -- English (ENU)

Datasets:

Site: [James Walker Trail E-W] Pathway
Attribute: Bike Cochrane
Direction: 7 - North/South. **Lane:** 0
Survey Duration: 15:00 Friday, September 30, 2022 => 10:12 Sunday, October 30, 2022,
Zone:
File: James Walker Trail E-W 0 2022-10-30 1013.EC0 (DemoL)
Identifier: NV27ZGTS MC5926-X13 (c)MetroCount 09Nov16
Algorithm: **Modified** - Factory default axle, PF = 2.800 (v5.07)
Data type: Axle sensors (bicycle) - Paired (Class/Speed/Count)

Profile:

Filter time: 15:00 Friday, September 30, 2022 => 10:12 Sunday, October 30, 2022 (29.8005)
Included classes: 1
Speed range: 10 - 160 km/h.
Direction: North, East, South, West (bound), P = North, Lane = 0-16
Separation: Headway > 0 sec, Span 0 - 100 metre
Name: Default Profile
Scheme: Vehicle classification (ARX)
Units: Metric (metre, kilometre, m/s, km/h, kg, tonne)
In profile: Vehicles = 433 / 501 (86.43%)

433 bikes in Oct 2021



James Walker bike counts - Oct

WeeklyVehicle-13
 Site: JJames Walker Trail E-W.0.1NS
 Description: Pathway
 Filter time: 15:00 Friday, September 30, 2022 => 10:12 Sunday, October 30, 2022
 Scheme: Vehicle classification (ARX)
 Filter: Cls(1) Dir(NESW) Sp(10,160) Headway(>0) Span(0 - 100) Lane(0-16)

| Hour | Mon 26 Sep | Tue 27 Sep | Wed 28 Sep | Thu 29 Sep | Fri 30 Sep | Sat 01 Oct | Sun 02 Oct | Averages 1 - 5 | 1 - 7 |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------------|-------|
| 0000-0100 | * | * | * | * | * | 1 | 0 | * | 0.5 |
| 0100-0200 | * | * | * | * | * | 0 | 0 | * | 0.0 |
| 0200-0300 | * | * | * | * | * | 1 | 0 | * | 0.5 |
| 0300-0400 | * | * | * | * | * | 0 | 0 | * | 0.0 |
| 0400-0500 | * | * | * | * | * | 0 | 0 | * | 0.0 |
| 0500-0600 | * | * | * | * | * | 0 | 0 | * | 0.0 |
| 0600-0700 | * | * | * | * | * | 0 | 0 | * | 0.0 |
| 0700-0800 | * | * | * | * | * | 0 | 0 | * | 0.0 |
| 0800-0900 | * | * | * | * | * | 0 | 0 | * | 0.0 |
| 0900-1000 | * | * | * | * | * | 3 | 1 | * | 2.0 |
| 1000-1100 | * | * | * | * | * | 5 | 0 | * | 2.5 |
| 1100-1200 | * | * | * | * | * | 2 | 3 | * | 2.5 |
| 1200-1300 | * | * | * | * | * | 4 | 0 | * | 2.0 |
| 1300-1400 | * | * | * | * | * | 1 | 5 | * | 3.0 |
| 1400-1500 | * | * | * | * | * | 2 | 4 | * | 3.0 |
| 1500-1600 | * | * | * | * | 3 | 8 | 6 | 3.0 | 5.7 |
| 1600-1700 | * | * | * | * | 4 | 2 | 2 | 4.0 | 2.7 |
| 1700-1800 | * | * | * | * | 0 | 3 | 2 | 0.0 | 1.7 |
| 1800-1900 | * | * | * | * | 2 | 1 | 3 | 2.0 | 2.0 |
| 1900-2000 | * | * | * | * | 1 | 1 | 2 | 1.0 | 1.3 |
| 2000-2100 | * | * | * | * | 0 | 1 | 2 | 0.0 | 1.0 |
| 2100-2200 | * | * | * | * | 1 | 1 | 3 | 1.0 | 1.7 |
| 2200-2300 | * | * | * | * | 1 | 0 | 0 | 1.0 | 0.3 |
| 2300-2400 | * | * | * | * | 0 | 0 | 1 | 0.0 | 0.3 |
| Totals | | | | | | | | | |
| 0700-1900 | * | * | * | * | * | 31 | 26 | * | 27.0 |
| 0600-2200 | * | * | * | * | * | 34 | 33 | * | 31.0 |
| 0600-0000 | * | * | * | * | * | 34 | 34 | * | 31.7 |
| 0000-0000 | * | * | * | * | * | 36 | 34 | * | 32.7 |
| AM Peak | * | * | * | * | * | 1000 | 1100 | | |
| | * | * | * | * | * | 5 | 3 | | |
| PM Peak | * | * | * | * | * | 1500 | 1500 | | |
| | * | * | * | * | * | 8 | 6 | | |

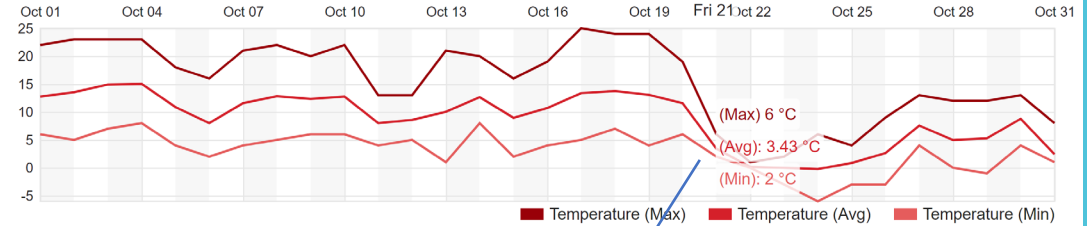
| Hour | Mon 03 Oct | Tue 04 Oct | Wed 05 Oct | Thu 06 Oct | Fri 07 Oct | Sat 08 Oct | Sun 09 Oct | Averages 1 - 5 | 1 - 7 |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------------|-------|
| 0000-0100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0100-0200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0200-0300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0300-0400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0400-0500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0500-0600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0600-0700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0700-0800 | 3 | 3 | 0 | 3 | 0 | 0 | 0 | 1.8 | 1.3 |
| 0800-0900 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 1.4 | 1.0 |
| 0900-1000 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0.8 | 0.6 |
| 1000-1100 | 0 | 1 | 0 | 0 | 0 | 4 | 2 | 0.2 | 1.0 |
| 1100-1200 | 0 | 1 | 0 | 0 | 0 | 3 | 7 | 0.2 | 1.6 |
| 1200-1300 | 1 | 3 | 1 | 0 | 1 | 2 | 3 | 1.2 | 1.6 |
| 1300-1400 | 2 | 2 | 0 | 0 | 2 | 3 | 7 | 1.2 | 2.3 |
| 1400-1500 | 4 | 4 | 0 | 3 | 2 | 0 | 6 | 2.6 | 2.7 |
| 1500-1600 | 4 | 2 | 1 | 2 | 5 | 0 | 1 | 2.8 | 2.1 |
| 1600-1700 | 3 | 0 | 0 | 2 | 0 | 4 | 0 | 1.0 | 1.3 |
| 1700-1800 | 1 | 5 | 1 | 1 | 0 | 1 | 0 | 1.6 | 1.3 |
| 1800-1900 | 0 | 3 | 0 | 5 | 4 | 5 | 0 | 2.4 | 2.4 |
| 1900-2000 | 1 | 1 | 2 | 2 | 0 | 1 | 2 | 1.2 | 1.3 |
| 2000-2100 | 0 | 6 | 0 | 1 | 0 | 0 | 0 | 1.4 | 1.0 |
| 2100-2200 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0.2 | 0.3 |
| 2200-2300 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0.2 | 0.1 |
| 2300-2400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| Totals | | | | | | | | | |
| 0700-1900 | 21 | 25 | 8 | 18 | 14 | 22 | 26 | 17.2 | 19.1 |
| 0600-2200 | 22 | 33 | 10 | 21 | 14 | 24 | 28 | 20.0 | 21.7 |
| 0600-0000 | 22 | 33 | 10 | 22 | 14 | 24 | 28 | 20.2 | 21.9 |
| 0000-0000 | 22 | 33 | 10 | 22 | 14 | 24 | 28 | 20.2 | 21.9 |
| AM Peak | 0700 3 | 0700 3 | 0900 3 | 0700 3 | 1100 0 | 1000 4 | 1100 7 | | |
| PM Peak | 1500 4 | 2000 6 | 1900 2 | 1800 5 | 1500 5 | 1800 5 | 1300 7 | | |

* - No data

Showing bike to school or commute timing



James Walker trail bike counts - Oct



| Hour | Mon 17 Oct | Tue 18 Oct | Wed 19 Oct | Thu 20 Oct | Fri 21 Oct | Sat 22 Oct | Sun 23 Oct | Averages 1 - 5 | 1 - 7 |
|----------------|------------|------------|------------|------------|------------|------------|------------|----------------|-------|
| 0000-0100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0100-0200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0200-0300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0300-0400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0400-0500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0500-0600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0600-0700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0700-0800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0800-0900 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0900-1000 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0.2 | 0.1 |
| 1000-1100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 1100-1200 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 1.0 | 0.9 |
| 1200-1300 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 1.6 | 1.3 |
| 1300-1400 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 1.6 | 2.9 |
| 1400-1500 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 1.8 | 3.4 |
| 1500-1600 | 2 | 5 | 2 | 6 | 0 | 0 | 0 | 3.0 | 2.1 |
| 1600-1700 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 1.4 | 1.0 |
| 1700-1800 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 1.0 | 0.7 |
| 1800-1900 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 1.0 | 0.7 |
| 1900-2000 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0.4 | 0.3 |
| 2000-2100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 2100-2200 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0.6 | 0.4 |
| 2200-2300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 2300-2400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| Totals | | | | | | | | | |
| 0700-1900 | 6 | 17 | 17 | 10 | 0 | 0 | 0 | 10.0 | 7.1 |
| 0600-2200 | 6 | 20 | 19 | 10 | 0 | 0 | 0 | 11.0 | 7.9 |
| 0600-0000 | 6 | 20 | 19 | 10 | 0 | 0 | 0 | 11.0 | 7.9 |
| 0000-0000 | 6 | 20 | 19 | 10 | 0 | 0 | 0 | 11.0 | 7.9 |
| AM Peak | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | | |
| | 1 | 0 | 1 | 2 | 0 | 0 | 0 | | |
| PM Peak | 1500 | 1600 | 1800 | 1500 | 2300 | 2300 | 2300 | | |
| | 2 | 7 | 3 | 6 | 0 | 0 | 0 | | |

| Hour | Mon 10 Oct | Tue 11 Oct | Wed 12 Oct | Thu 13 Oct | Fri 14 Oct | Sat 15 Oct | Sun 16 Oct | Averages 1 - 5 | 1 - 7 |
|----------------|------------|------------|------------|------------|------------|------------|------------|----------------|-------|
| 0000-0100 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0.0 | 0.1 |
| 0100-0200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0200-0300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0300-0400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0400-0500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0500-0600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0600-0700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0700-0800 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0.2 | 0.1 |
| 0800-0900 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0.6 | 0.4 |
| 0900-1000 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0.4 | 0.4 |
| 1000-1100 | 0 | 0 | 1 | 0 | 1 | 3 | 1 | 0.4 | 0.9 |
| 1100-1200 | 0 | 0 | 0 | 0 | 0 | 7 | 3 | 0.0 | 1.4 |
| 1200-1300 | 5 | 0 | 1 | 0 | 2 | 0 | 1 | 1.6 | 1.3 |
| 1300-1400 | 4 | 7 | 0 | 0 | 2 | 0 | 7 | 2.6 | 2.9 |
| 1400-1500 | 2 | 3 | 0 | 0 | 3 | 5 | 7 | 1.6 | 2.9 |
| 1500-1600 | 1 | 6 | 0 | 1 | 1 | 1 | 14 | 1.8 | 3.4 |
| 1600-1700 | 0 | 1 | 0 | 6 | 0 | 8 | 5 | 1.4 | 2.9 |
| 1700-1800 | 0 | 2 | 1 | 1 | 0 | 0 | 4 | 0.8 | 1.1 |
| 1800-1900 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0.4 | 0.3 |
| 1900-2000 | 1 | 1 | 0 | 2 | 1 | 1 | 0 | 1.0 | 0.9 |
| 2000-2100 | 0 | 1 | 1 | 3 | 3 | 0 | 0 | 1.6 | 1.1 |
| 2100-2200 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0.2 | 0.1 |
| 2200-2300 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0.2 | 0.1 |
| 2300-2400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| Totals | | | | | | | | | |
| 0700-1900 | 14 | 22 | 4 | 9 | 10 | 24 | 43 | 11.8 | 18.0 |
| 0600-2200 | 15 | 24 | 6 | 14 | 14 | 25 | 43 | 14.6 | 20.1 |
| 0600-0000 | 15 | 24 | 6 | 14 | 15 | 25 | 43 | 14.8 | 20.3 |
| 0000-0000 | 15 | 24 | 6 | 14 | 15 | 26 | 43 | 14.8 | 20.4 |
| AM Peak | 0700 | 0900 | 1000 | 0800 | 1000 | 1100 | 1100 | | |
| | 1 | 2 | 1 | 1 | 1 | 7 | 3 | | |
| PM Peak | 1200 | 1300 | 2100 | 1600 | 2000 | 1600 | 1500 | | |
| | 5 | 7 | 1 | 6 | 3 | 8 | 14 | | |



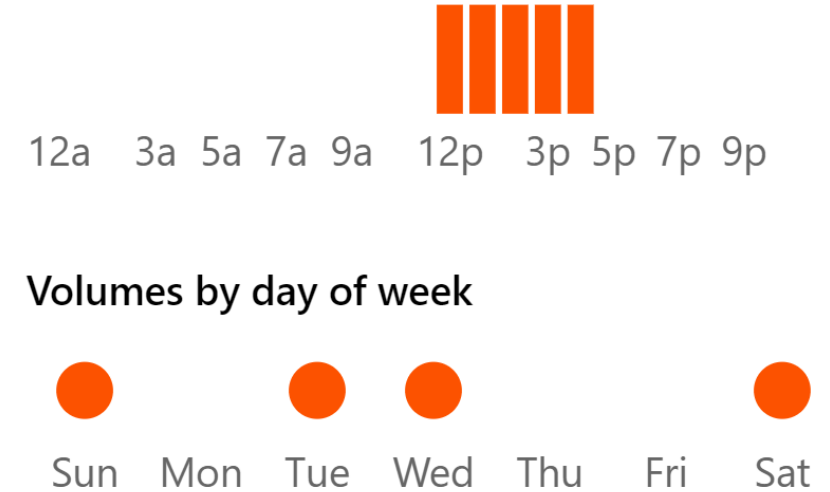
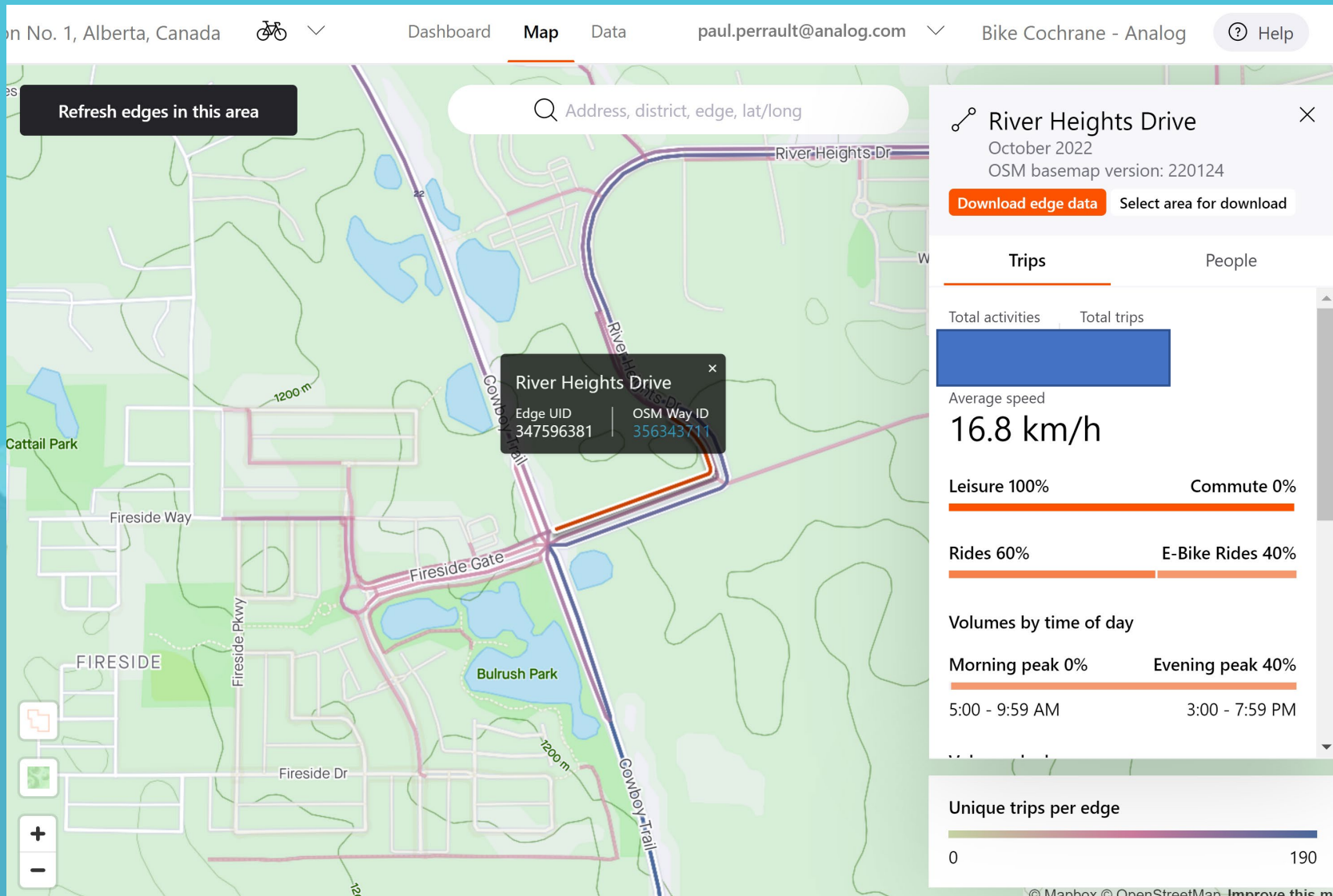
James Walker Trail bike counts

| Hour | Mon | Tue | Wed | Thu | Fri | Sat | Sun | Averages | |
|----------------|----------|----------|----------|----------|----------|----------|--------|------------|------------|
| | 24 Oct | 25 Oct | 26 Oct | 27 Oct | 28 Oct | 29 Oct | 30 Oct | 1 - 5 | 1 - 7 |
| 0000-0100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0100-0200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0200-0300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0300-0400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0400-0500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0500-0600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0600-0700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0700-0800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0800-0900 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 0900-1000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 1000-1100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 1100-1200 | 0 | 0 | 0 | 0 | 0 | 0 | * | 0.0 | 0.0 |
| 1200-1300 | 0 | 0 | 0 | 0 | 0 | 0 | * | 0.0 | 0.0 |
| 1300-1400 | 0 | 0 | 0 | 0 | 0 | 0 | * | 0.0 | 0.0 |
| 1400-1500 | 0 | 0 | 0 | 0 | 0 | 0 | * | 0.0 | 0.0 |
| 1500-1600 | 0 | 0 | 0 | 0 | 0 | 0 | * | 0.0 | 0.0 |
| 1600-1700 | 0 | 0 | 0 | 0 | 0 | 0 | * | 0.0 | 0.0 |
| 1700-1800 | 0 | 0 | 0 | 0 | 0 | 0 | * | 0.0 | 0.0 |
| 1800-1900 | 0 | 0 | 0 | 0 | 0 | 0 | * | 0.0 | 0.0 |
| 1900-2000 | 0 | 0 | 0 | 0 | 0 | 0 | * | 0.0 | 0.0 |
| 2000-2100 | 0 | 0 | 0 | 0 | 0 | 0 | * | 0.0 | 0.0 |
| 2100-2200 | 0 | 0 | 0 | 0 | 0 | 0 | * | 0.0 | 0.0 |
| 2200-2300 | 0 | 0 | 0 | 0 | 0 | 0 | * | 0.0 | 0.0 |
| 2300-2400 | 0 | 0 | 0 | 0 | 0 | 0 | * | 0.0 | 0.0 |
| Totals | | | | | | | | | |
| 0700-1900 | 0 | 0 | 0 | 0 | 0 | 0 | * | 0.0 | 0.0 |
| 0600-2200 | 0 | 0 | 0 | 0 | 0 | 0 | * | 0.0 | 0.0 |
| 0600-0000 | 0 | 0 | 0 | 0 | 0 | 0 | * | 0.0 | 0.0 |
| 0000-0000 | 0 | 0 | 0 | 0 | 0 | 0 | * | 0.0 | 0.0 |
| AM Peak | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | * | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | * | | |
| PM Peak | 2300 | 2300 | 2300 | 2300 | 2300 | 2300 | * | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | * | | |

Basically zero traffic from 20 Oct to Hallowe'en due to weather dropping in temps



James Walker Trail Bike Strava – Oct 2022

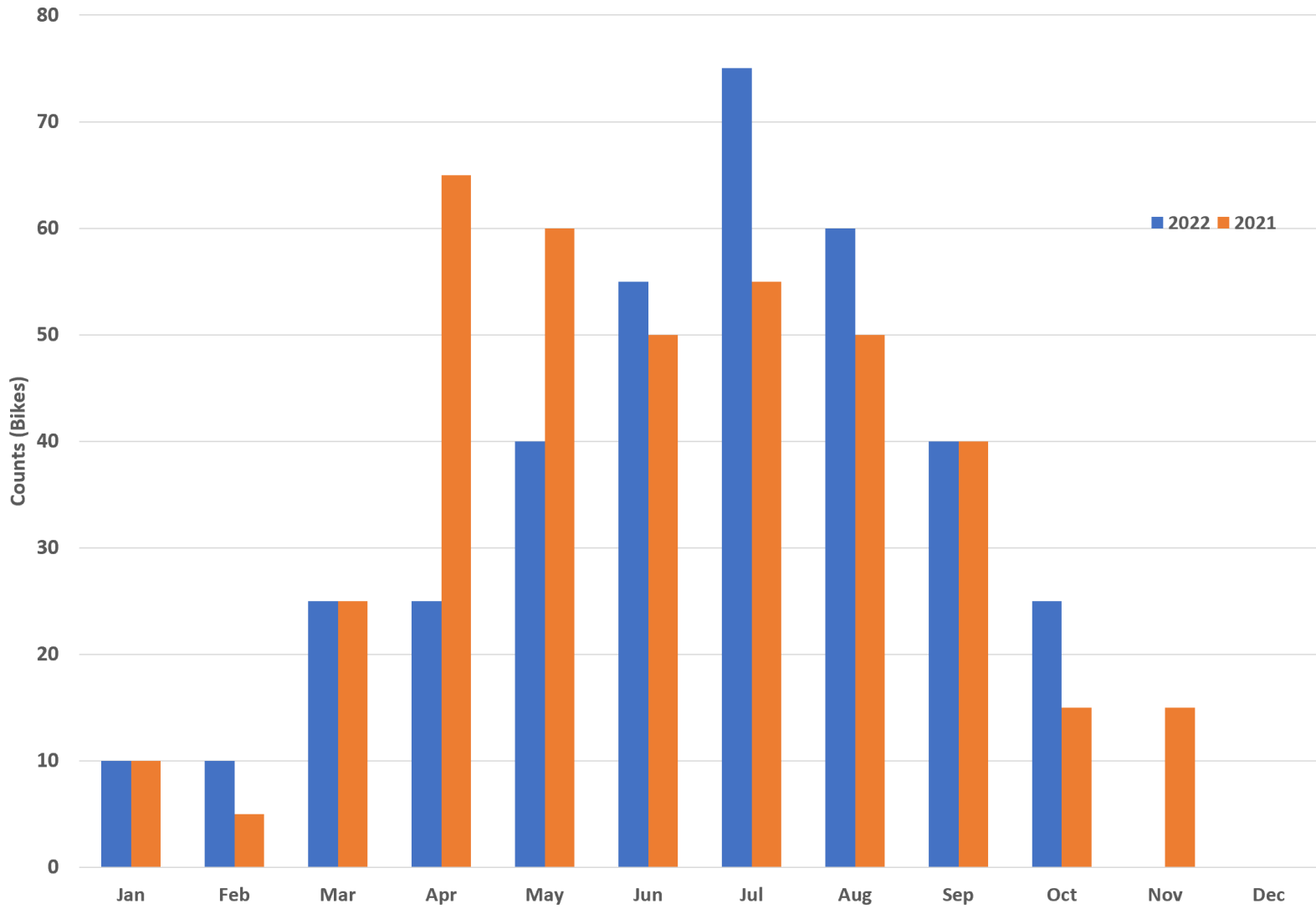


Basically ZERO of the people/kids biking from 7am to 10am show up in Strava since they're not tracking

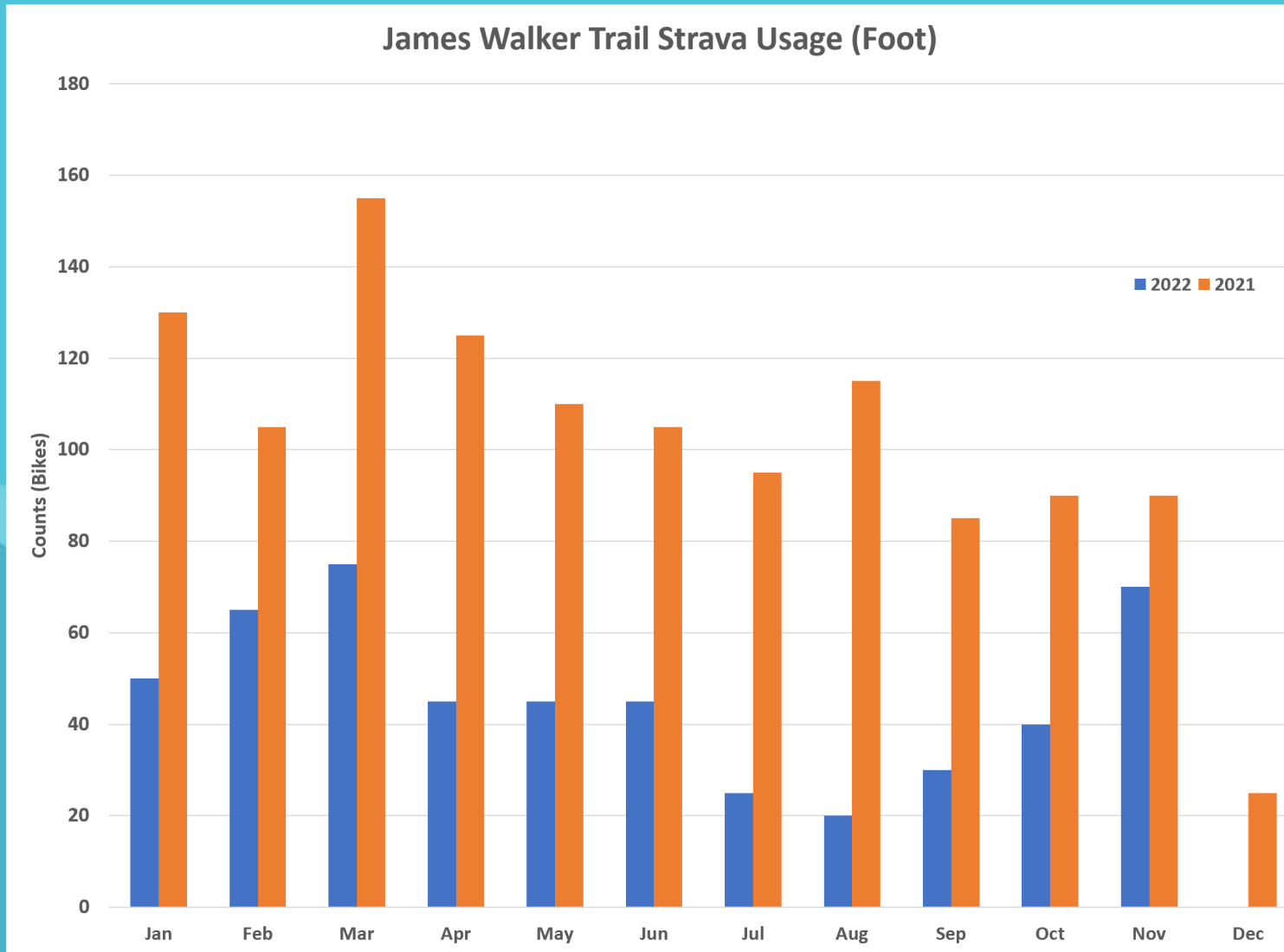


James Walker Trail Strava – bike

James Walker Trail Strava Usage (Bikes)



James Walker Trail Strava - foot



- Looks to be a dramatic drop in counted people from 2021 to 2022
- It's unclear why that is the case



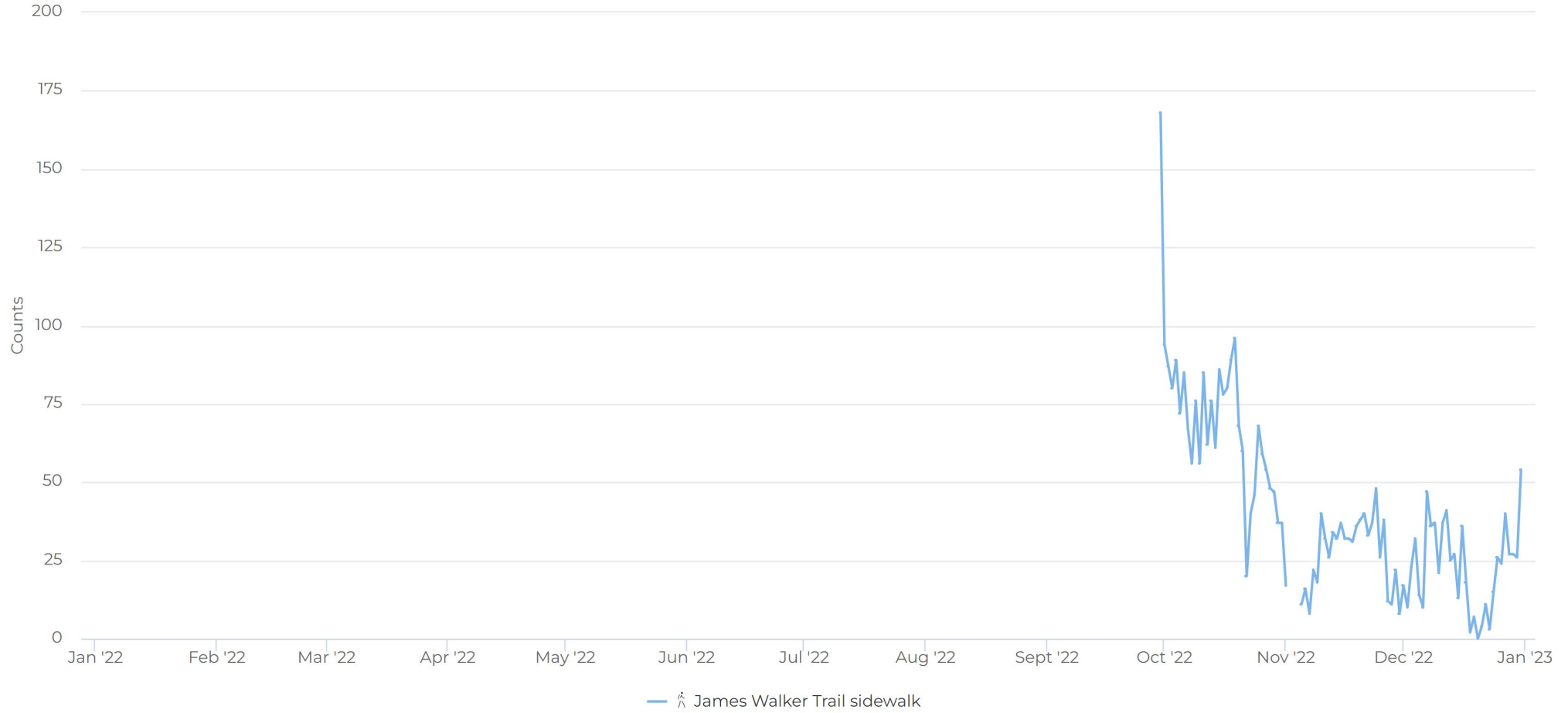
James Walker Trail optical counts

Daily traffic

Last Year

⋮ ⬇ 📄 🗑 ⚙ ✕

📍 James Walker Trail sidewalk



Daily counts - Oct

Daily traffic

10/01/2022 → 10/31/2022

James Walker Trail sidewalk



It got cold!



Daily counts - Nov

Daily traffic

11/01/2022 → 11/30/2022

James Walker Trail sidewalk



Daily counts - Dec

Daily traffic

12/01/2022 → 12/31/2022

James Walker Trail sidewalk

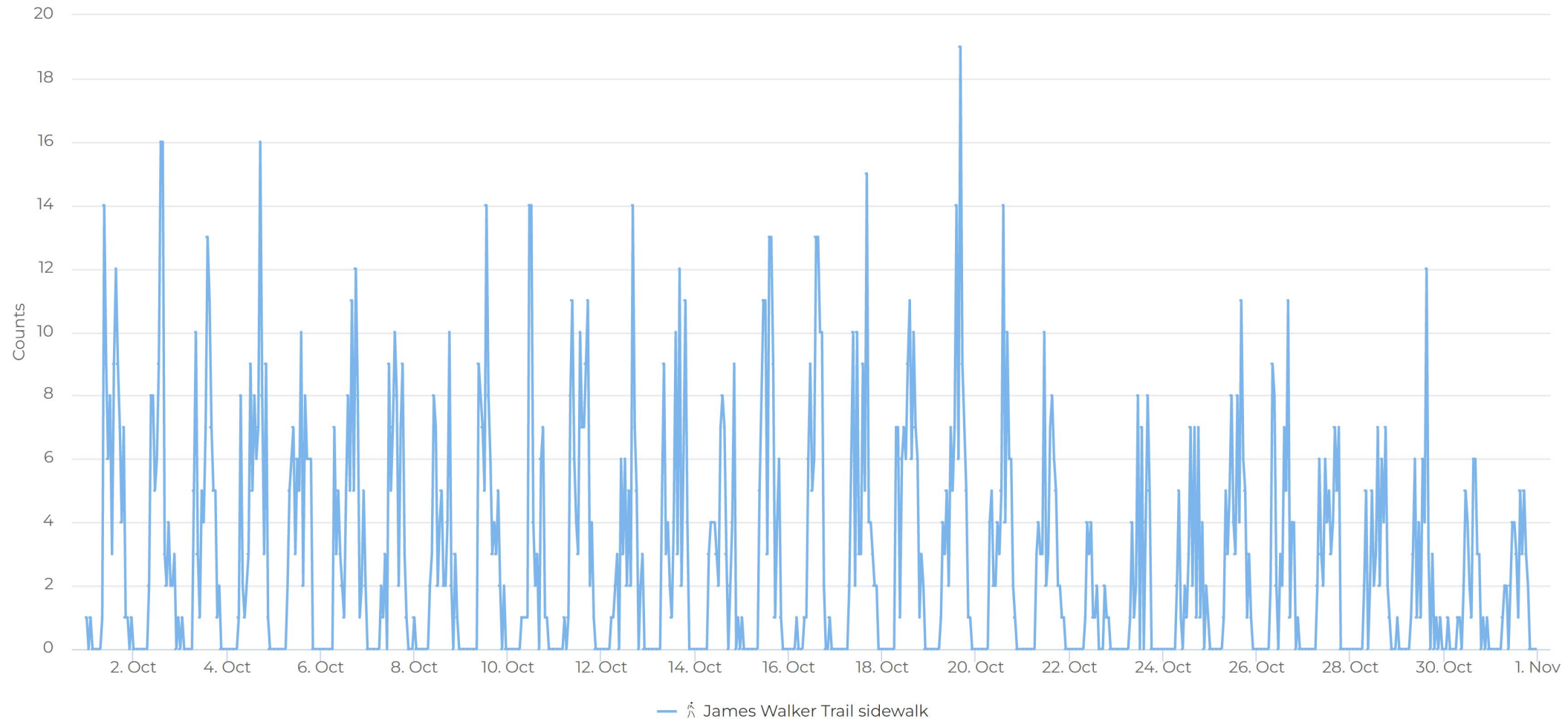


Hourly data - Oct

Hourly traffic

10/01/2022 - 10/31/2022

James Walker Trail sidewalk

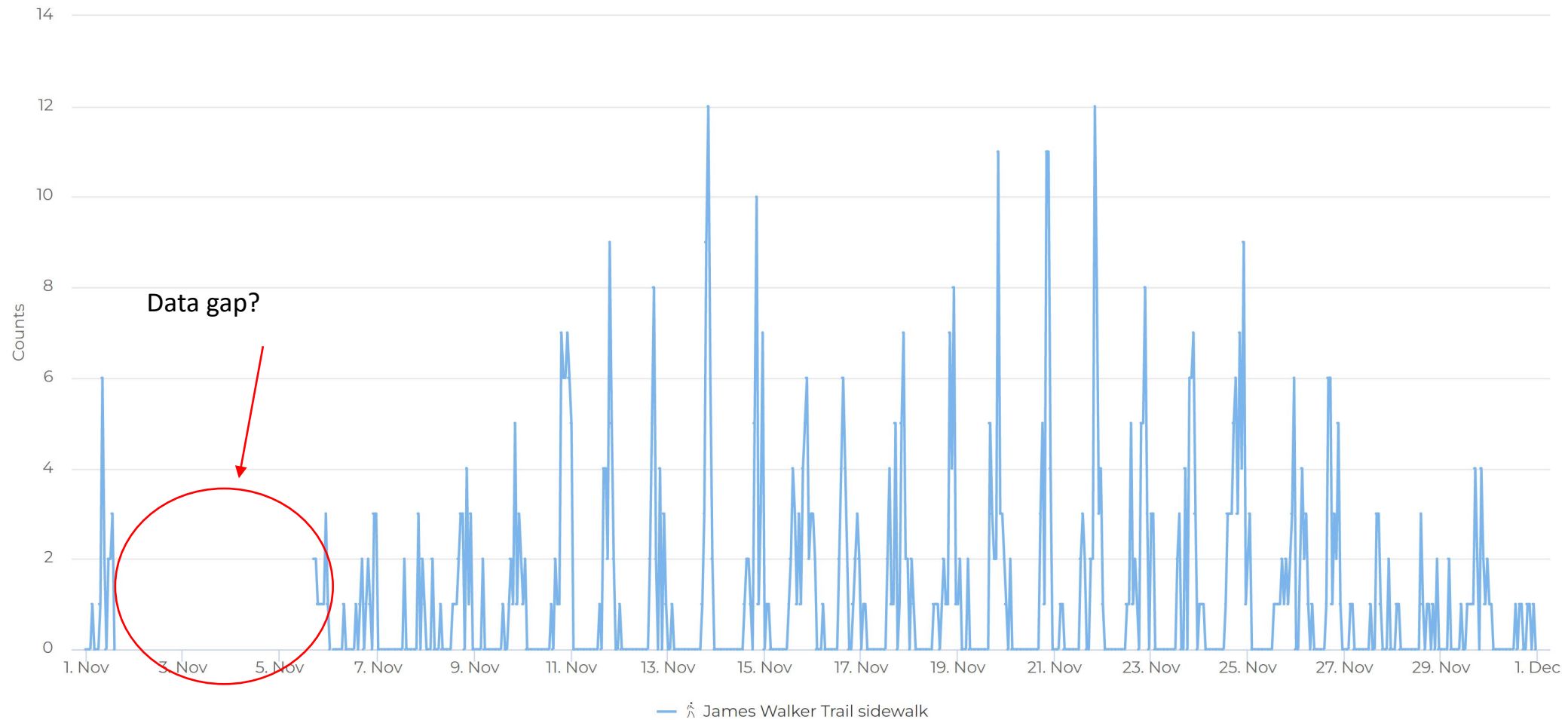


Hourly data - Nov

Hourly traffic

11/01/2022 to 11/30/2022

James Walker Trail sidewalk

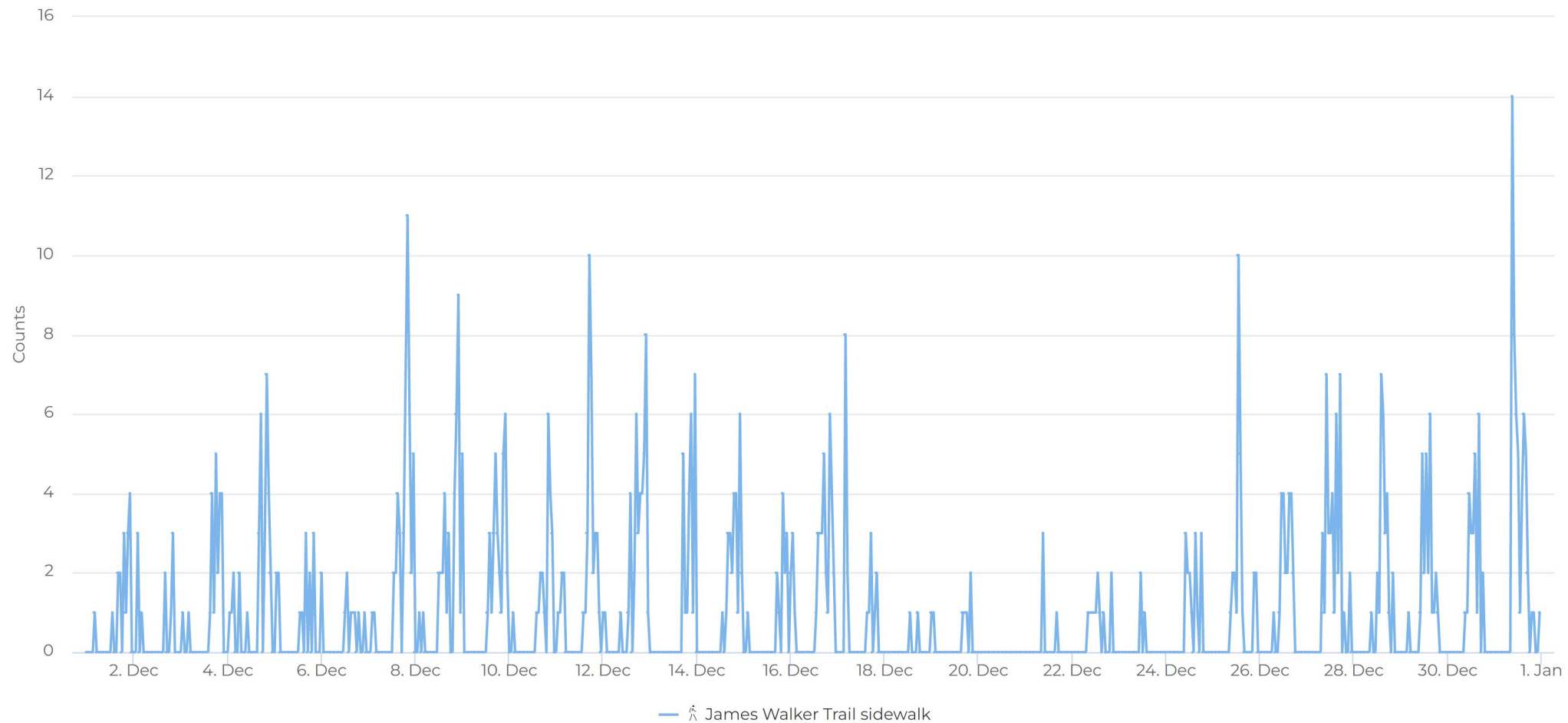


Hourly data - Dec

Hourly traffic

12/01/2022 → 12/31/2022

James Walker Trail sidewalk

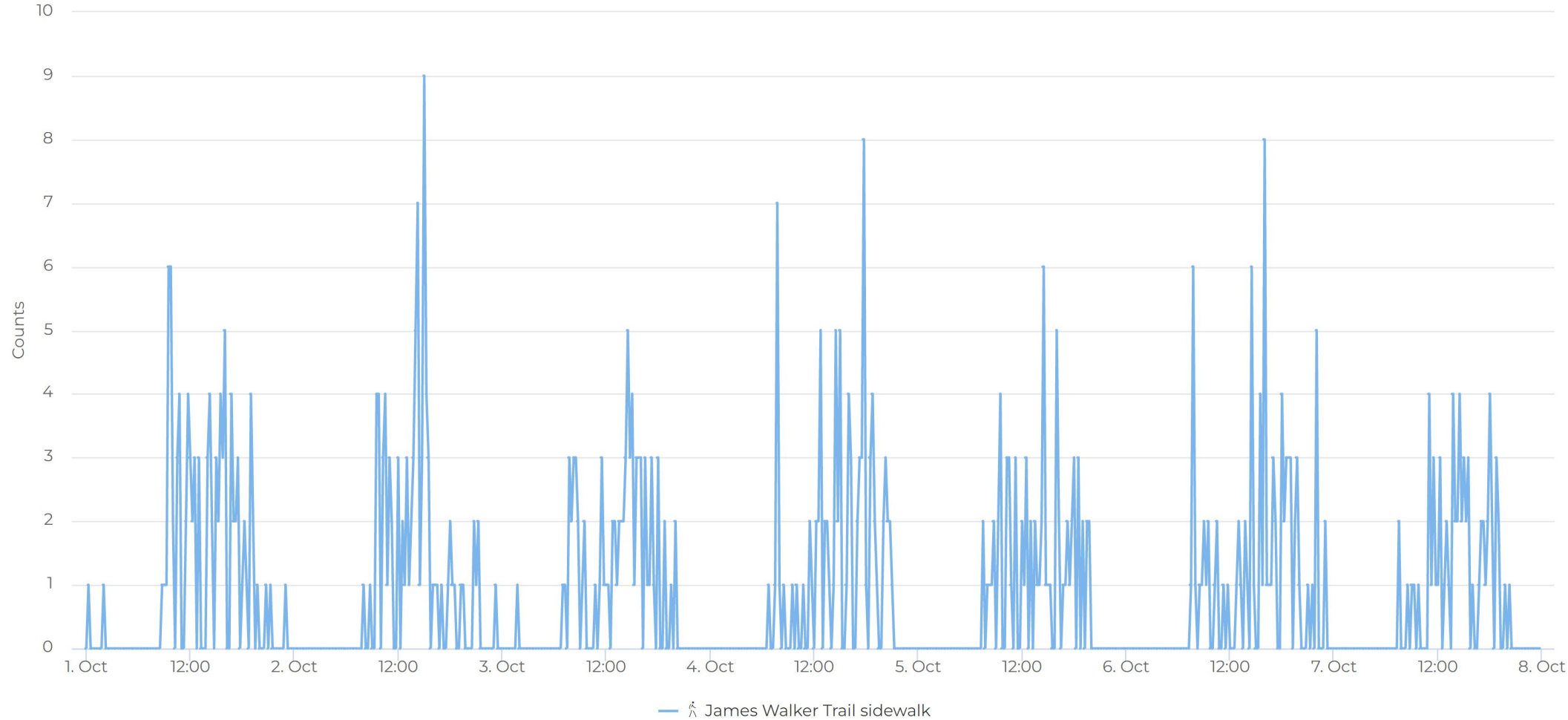


Typical day - Oct

15 minutes traffic

10/01/2022 → 10/07/2022

James Walker Trail sidewalk



James Walker Strava foot example data

