

# Creating and using a publicly available multimodal transportation data archive

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Team: Basem Elazzabi, Hau Hagedorn, Kyuri Kim, Tatiana Luchian, Will Mass, Utsav Raychaudhuri, Aman Soldaki



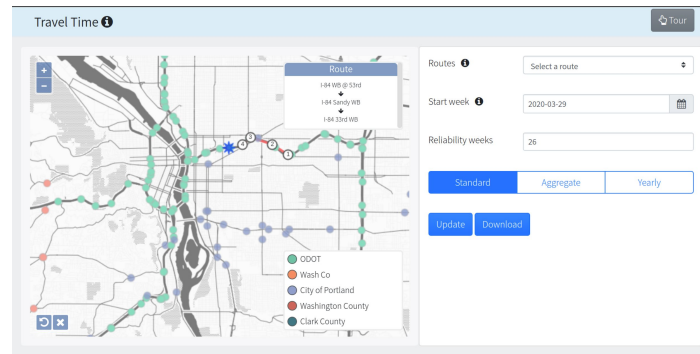
# The Portals: A MultiModal (Transportation Data) Archive

*PORTAL* is: a transportation data archive for the Portland-Vancouver-Hillsboro Metropolitan area

*BikePed Portal* is: a national archive for bicycle and pedestrian data

Today we will see:

- A tour of PORTAL
- Trends in traffic volume since Covid-19
- A sneak-peek at the new BikePed Portal web site



# PORTAL and BikePed Portal: Archiving multimodal transportation data

## PORTAL:

- Transportation data archive for the Portland-Vancouver-Hillsboro metropolitan area
- Uses: regional performance measures, research, education
- Data:
  - *Highway*: speed volume, occupancy, VMT, VHT, travel time, delay
  - *Vehicle length*: volume
  - *Transit*: quarterly ridership & on-time performance
  - *Arterial*: traffic signal data, bike counts, system detector counts
  - *Incidents +*: TOC incident data, VMS, VAS
  - *Weather*: wind speed, temperature, humidity, precipitation, visibility



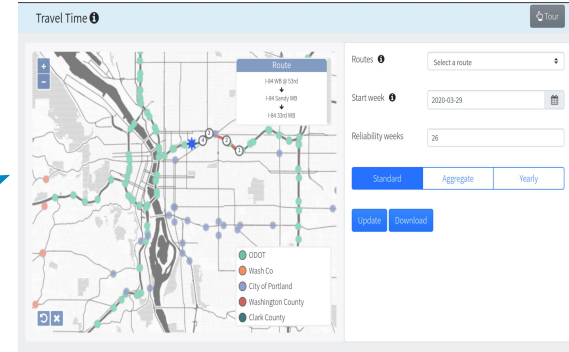
# PORTAL Architecture

Publicly-available - policy of open data

Publicly-funded (Metro (TransPort),  
RTC(VAST), TREC NSF, FHWA)

Focus on open-source software

>10TB PostgreSQL database



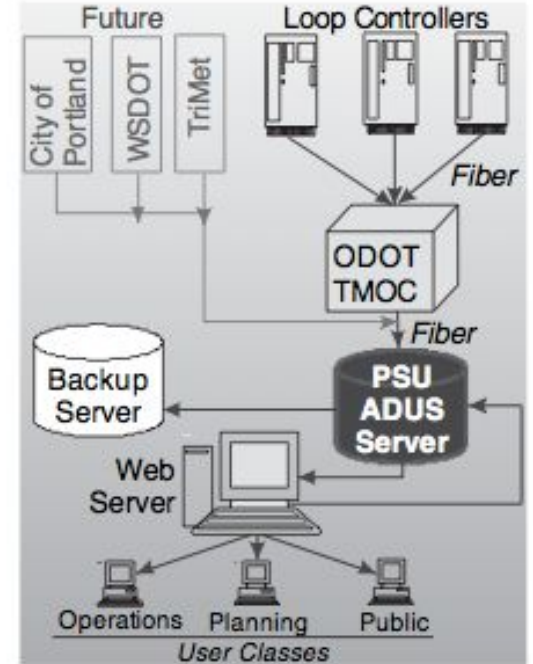
# PORTAL Architecture

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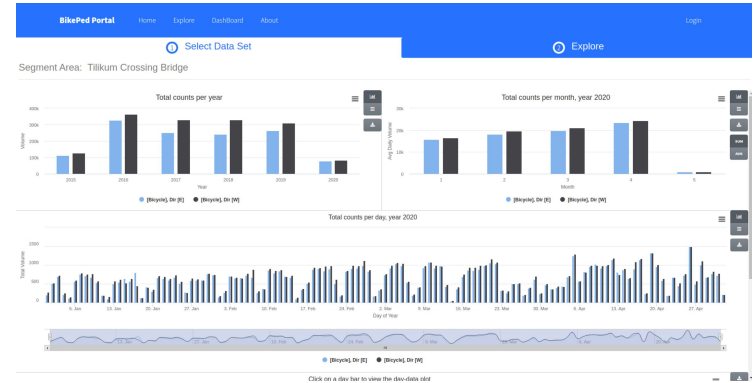
>10TB PostgreSQL database



# PORTAL and BikePed Portal: Archiving multimodal transportation data

## BikePed Portal:

- National archive for bicycle and pedestrian data.
- Uses: regional performance measures, research, education
- Data:
  - Permanent and short-duration counts
  - Automatic and manual counts
  - Turning movement counts



**PORTAL**

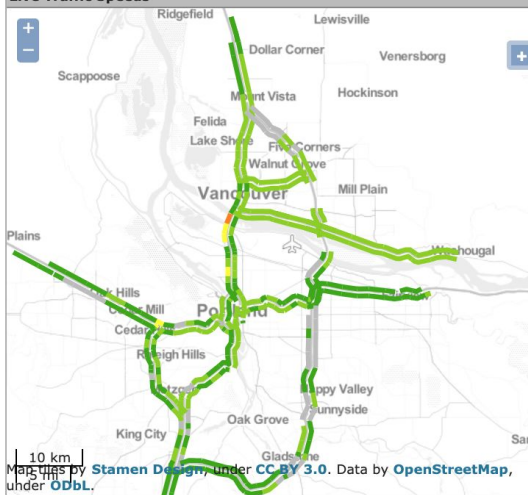
**PORTAL is the official transportation data archive for the Portland-Vancouver Metropolitan region.**

PORTAL provides a centralized, electronic database that facilitates the collection, archiving, and sharing of data and information for public agencies within the region. The data stored in Portal includes 20-second granularity loop detector data from freeways in the Portland-Vancouver metropolitan region, arterial signal data, travel time data, weather data, incident data, VAS/VMS message data, truck volumes, transit data, and arterial signal data. Many of these data feeds are received by PORTAL in real time or on a daily basis and for most, the retrieval and archiving process is fully automated.

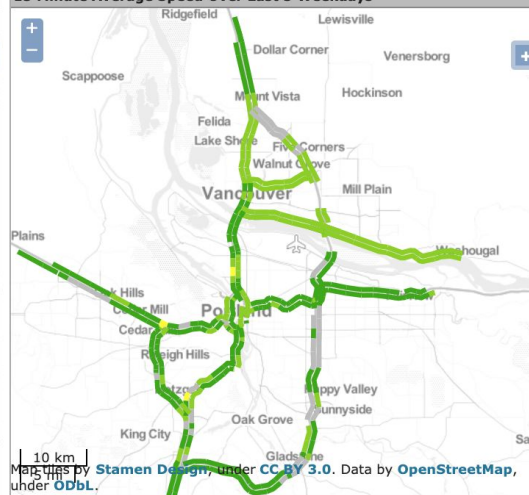
PORTAL's multi-modal transportation data archive aims to support Metro's Regional Transportation Plan, the production of regional performance measures, support for regional transportation agencies and their consultants, and researchers at Portland State and elsewhere. Project objectives include producing tools and performance measures useful to local transportation professionals, exploring new and innovative uses of the data, and making the PORTAL data and system more accessible to agency personnel.

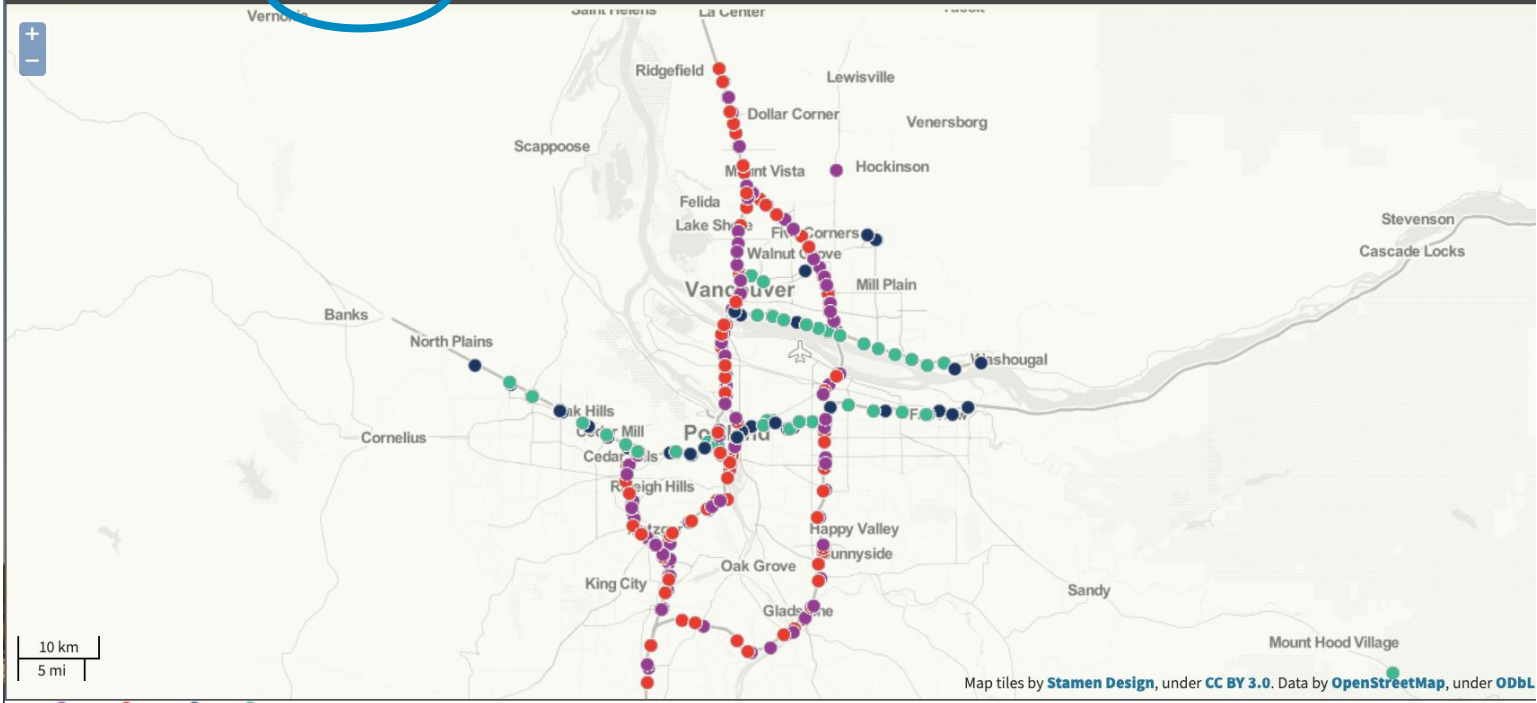
PORTAL is currently supported by funding from [Metro](#), the [Southwest Washington Regional Transportation Council \(RTC\)](#), and the [Transportation Research and Education Center \(TREC\) at Portland State](#). In addition, PORTAL has received funding from the [Federal Highway Administration \(FHWA\)](#) and the [National Science Foundation \(NSF\)](#).

**Live Traffic Speeds**



**15 Minute Average Speed Over Last 5 Weekdays**

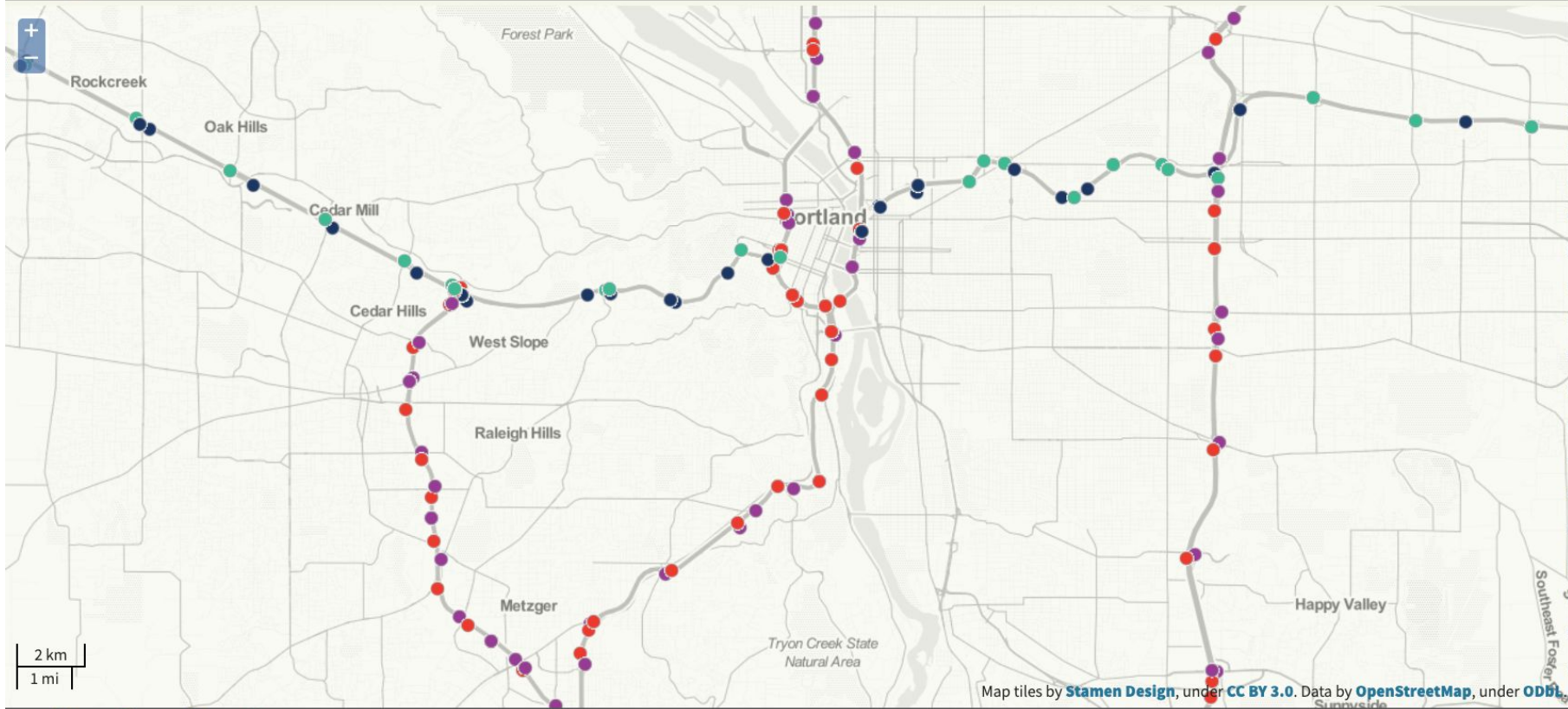




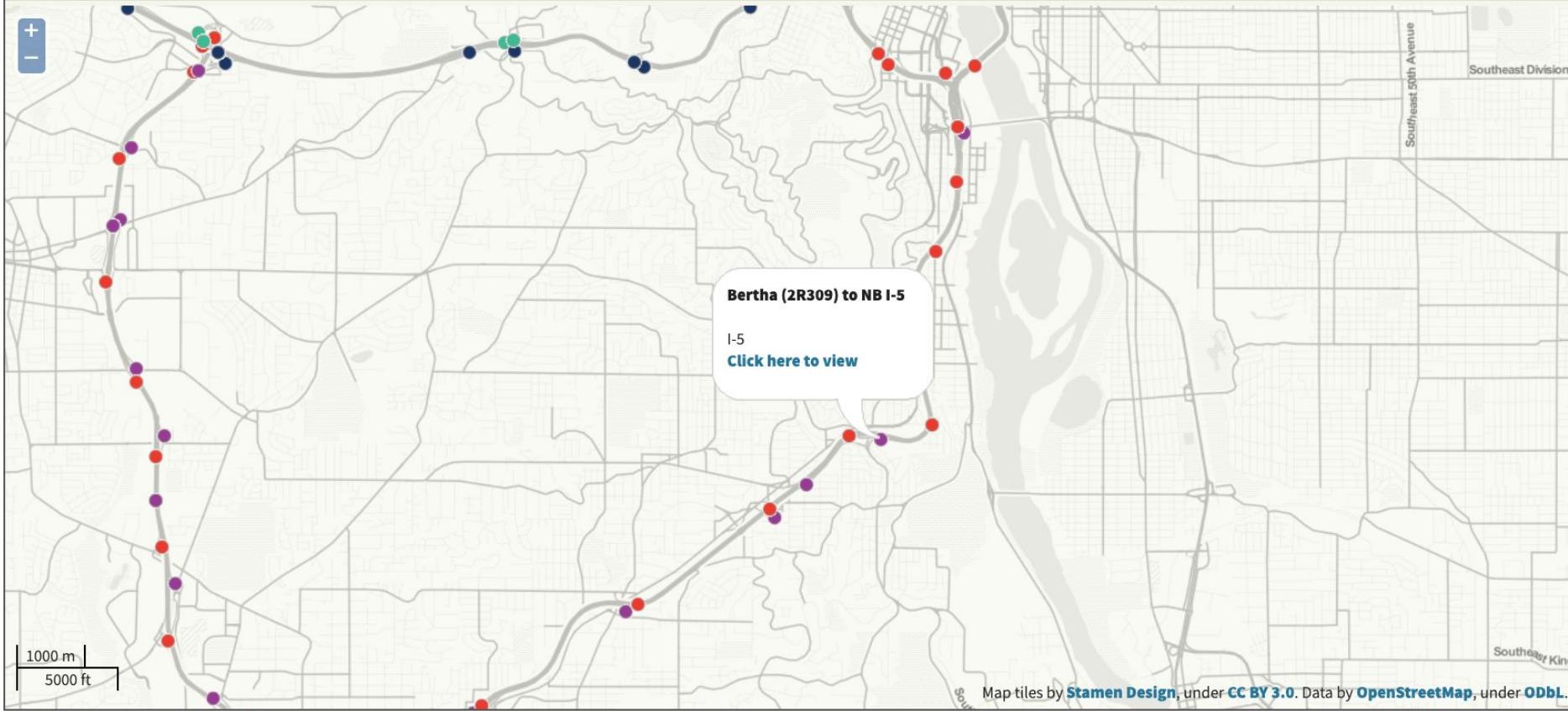
[ Portland State University | Maseeh CECS | ITS Lab | Oregon DOT | Federal Highway Administration | National Science Foundation ]

This material is based upon work supported by the National Science Foundation under Grant No. 0236567, the Oregon Department of Transportation, the Transportation and Research Education Center, the Southwest Washington Regional Transportation Council, the Federal Highway Administration and by grants distributed through Metro. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the funding organizations.





● North ● South ● East ● West



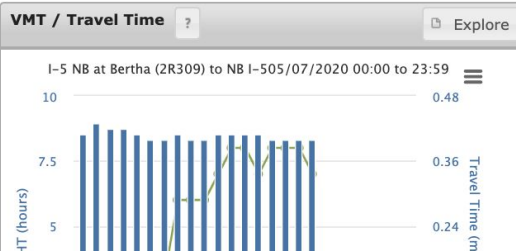
● North ● South ● East ● West

### Bertha (2R309) to NB I-5 Station ?

**Highway:** I-5 NB **Number Of Lanes:** 3 **Milepost:** 297.23 **Length:** 0.35

Downstream Station: Terwilliger (2DS054) @ NB I-5 MP297.3 →      Opposite Direction: N/A ↔      ← Upstream Station: Multnomah (2R304) to NB I-5

Map tiles by [Stamen Design](#), under [CC BY 3.0](#). Data by [OpenStreetMap](#), under [ODBL](#).



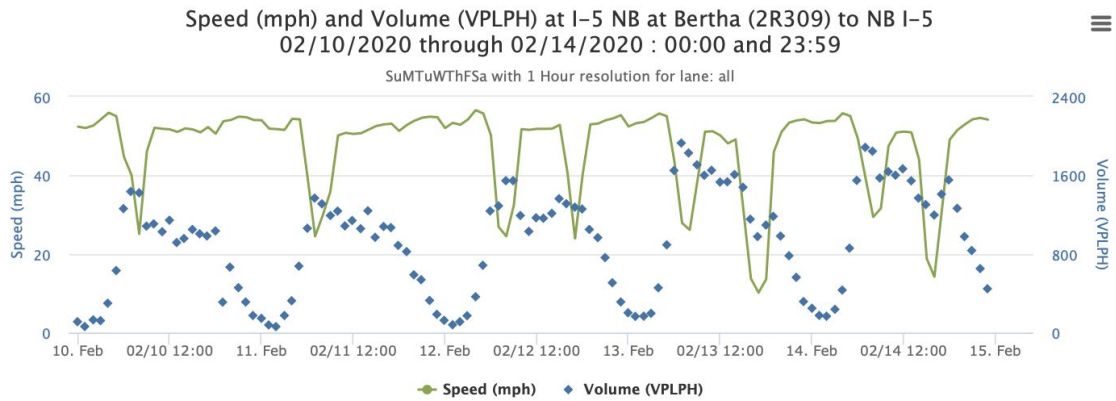
Portland-Vancouver Stations Page --> Bertha (2R309) to NB I-5 --> Two Quantity Chart

Station Select:  go

### Two Quantity Chart

- **Highway:** I-5
- **Direction:** North
- **Number Of Lanes:** 3
- **Milepost:** 297.23
- **Detector Type:** Unknown
- **Detector Location:** Unknown
- **Agency:** ODOT
- **Region:** 1

**Date Range**    
**Time Range**    
**Quantities** 1st:  2nd:   
**Configuration** Resolution:  Group:   
**Select Lane:** Lane:



Date Range ?

Time Range ?

Quantities ?

Configuration ?

Select Lane: ?

Start: 2/10/2020

Start: 00:00

1st: Speed

Resolution: 1hr

Lane: all

End: 2/14/2020

End: 23:59

2nd: Volume (VPLPH)

Group: No

Sun Mon Tue Wed Thu Fri Sat

Update Charts

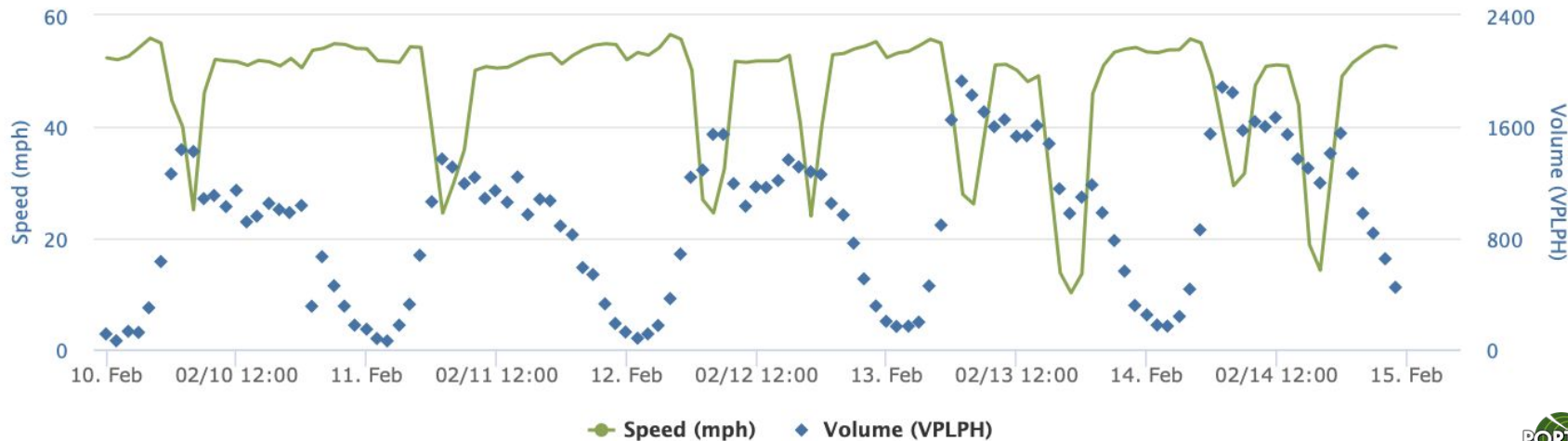
Downstream Station: Terwilliger (2DS054) @ NB I-5 MP297.3

Opposite Direction: N/A

Upstream Station: Multnomah (2R304) to NB I-5

### Speed (mph) and Volume (VPLPH) at I-5 NB at Bertha (2R309) to NB I-5 02/10/2020 through 02/14/2020 : 00:00 and 23:59

SuMTuWThFSa with 1 Hour resolution for lane: all



Date Range ?

Start: 2/10/2020  
End: 2/14/2020

Sun Mon Tue Wed Thu Fri Sat

Time Range ?

Start: 00:00  
End: 23:59

Quantities ?

1st: Speed  
2nd: Volume (VPLPH)

Configuration ?

Resolution: 1hr  
Group: No

Select Lane: ?

Lane: all

Update Charts

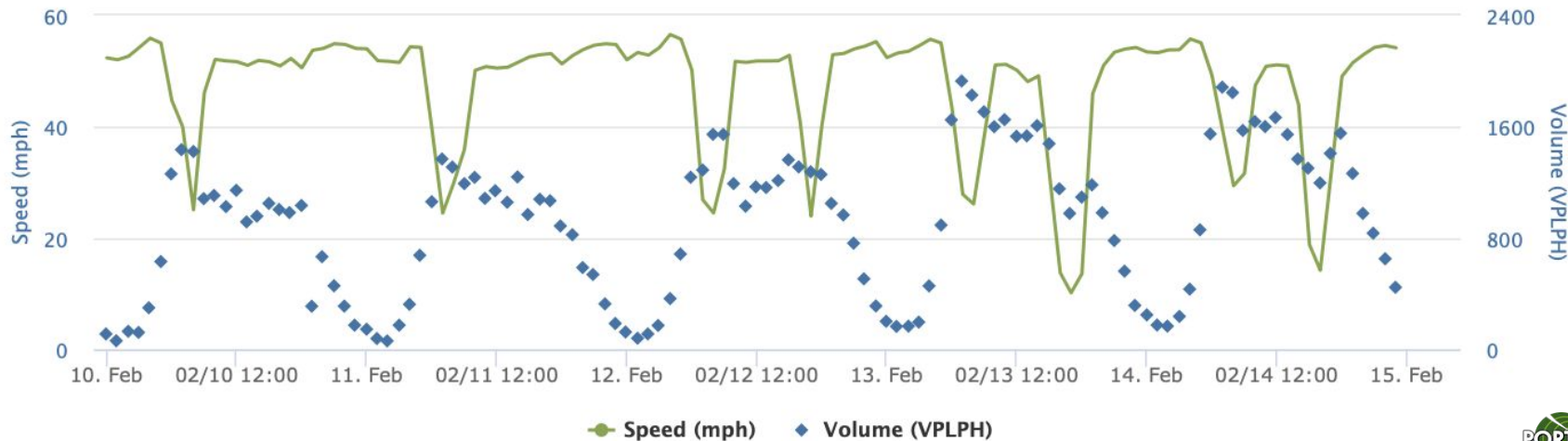
Downstream Station: Terwilliger (2DS054) @ NB I-5 MP297.3

Opposite Direction: N/A

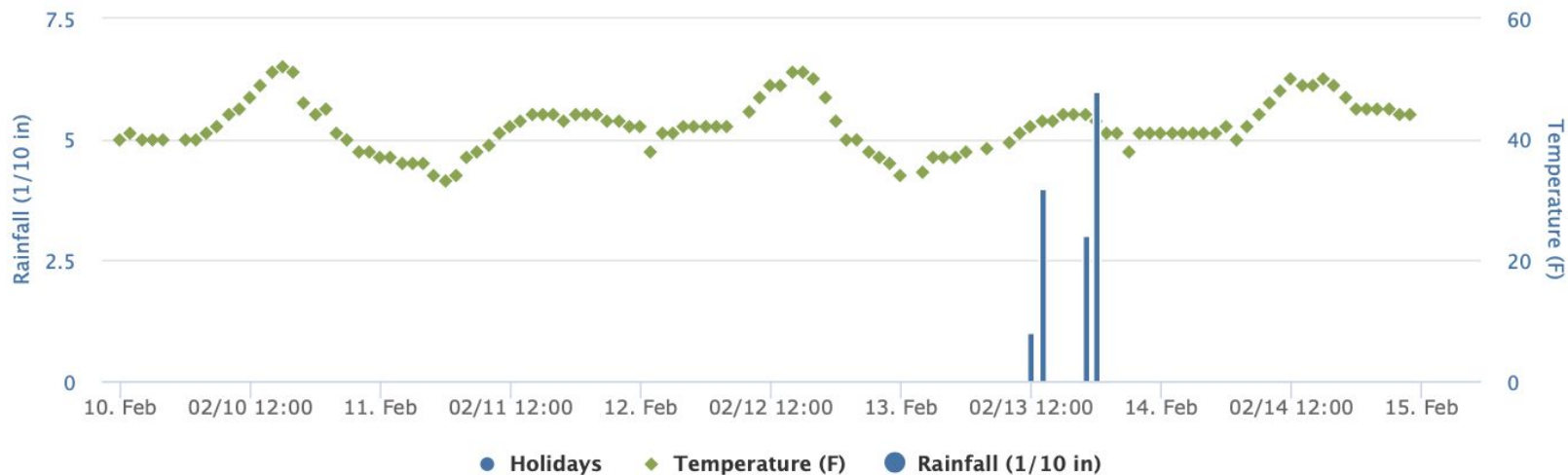
Upstream Station: Multnomah (2R304) to NB I-5

### Speed (mph) and Volume (VPLPH) at I-5 NB at Bertha (2R309) to NB I-5 02/10/2020 through 02/14/2020 : 00:00 and 23:59

SuMTuWThFSa with 1 Hour resolution for lane: all



### Rainfall (1/10 in), Temperature (F) and Holidays at 02/10/2020 through 02/14/2020 : 00:00 and 23:59



Date Range ?

Start: 2/10/2020

End: 2/14/2020

Sun Mon Tue Wed Thu Fri Sat

Time Range ?

Start: 00:00

End: 23:59

Quantities ?

1st: Speed

2nd: Volume (VPLPH)

Select...

Configuration ?

Resolution: 15min

Group: No

Select Lane: ?

Lane: all

Update Charts

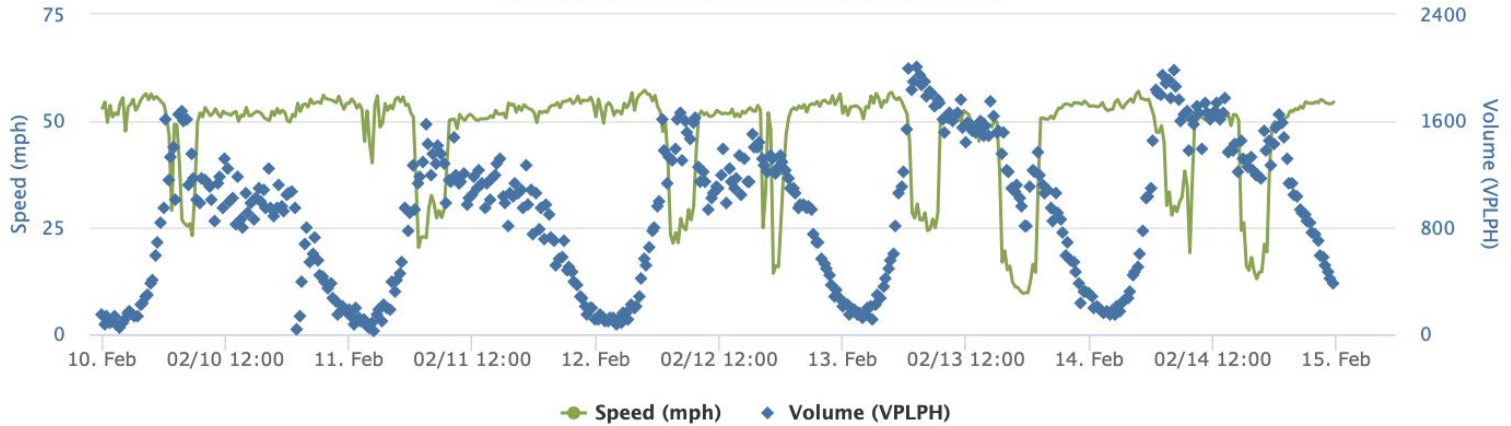
Downstream Station: Terwilliger (2DS054) @ NB I-5 MP297.3

Opposite Direction: N/A

Upstream Station: Multnomah (2R304) to NB I-5

### Speed (mph) and Volume (VPLPH) at I-5 NB at Bertha (2R309) to NB I-5 02/10/2020 through 02/14/2020 : 00:00 and 23:59

SuMTuWThFSa with 15 Minute resolution for lane: all



Download Data

Download All Data

Download Stations Metadata

Download Detectors Metadata

Download Weather Data



Date Range ?

Start: 2/10/2020

End: 2/14/2020

Sun Mon Tue Wed Thu Fri Sat

Time Range ?

Start: 00:00

End: 23:59

Quantities ?

1st: Speed

2nd: Volume (VPLPH)

Select...

Configuration ?

Resolution: 15min

Group: No

Select Lane: ?

Lane: all

Update Charts

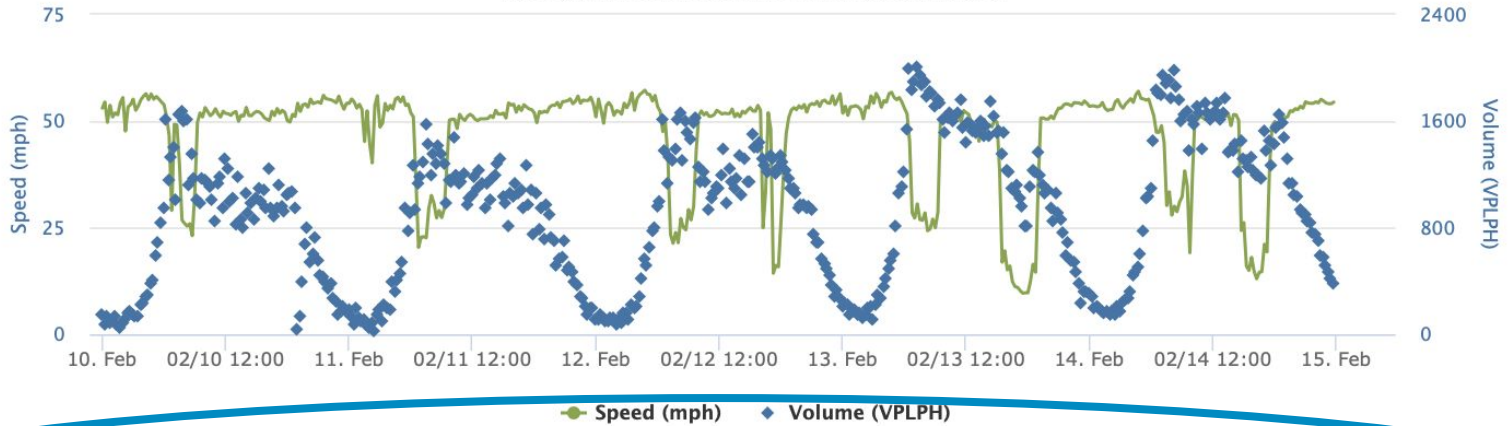
Downstream Station: Terwilliger (2DS054) @ NB I-5 MP297.3

Opposite Direction: N/A

Upstream Station: Multnomah (2R304) to NB I-5

### Speed (mph) and Volume (VPLPH) at I-5 NB at Bertha (2R309) to NB I-5 02/10/2020 through 02/14/2020 : 00:00 and 23:59

SuMTuWThFSa with 15 Minute resolution for lane: all



Download Data

Download All Data

Download Stations Metadata

Download Detectors Metadata

Download Weather Data



Date Range ?

Time Range ?

Quantities ?

Configuration ?

Select Lane: ?

Start: 2/10/2020

Start: 00:00

1st: Speed

Resolution: 15min

Lane: all

End: 2/14/2020

End: 23:59

2nd: Volume (VPLPH)

Group: Yes

Sun Mon Tue Wed Thu Fri Sat

Update Charts

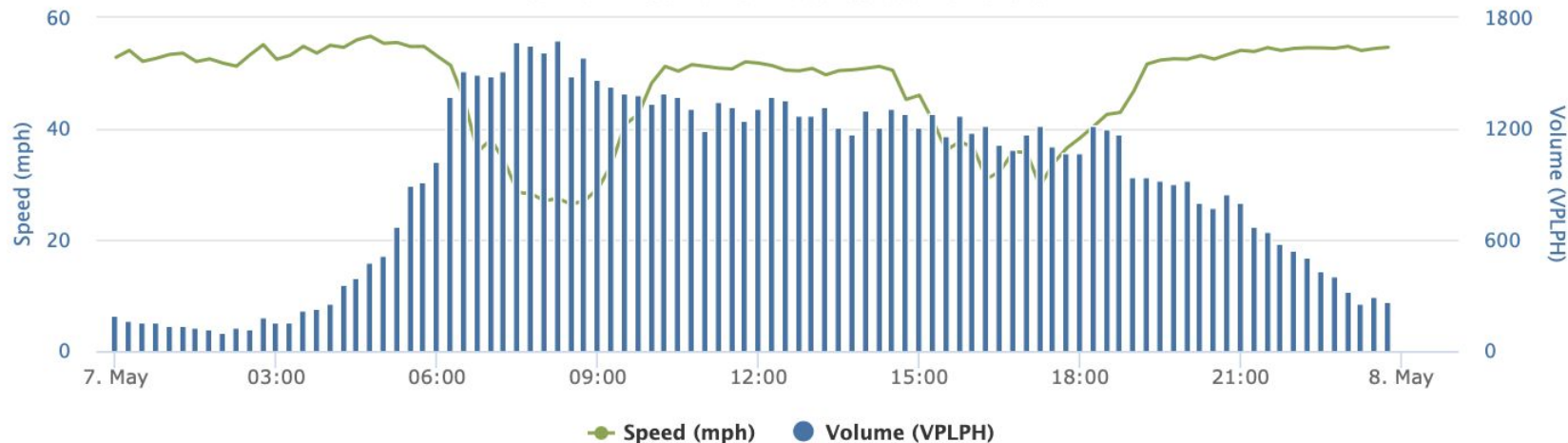
Downstream Station: Terwilliger (2DS054) @ NB I-5 MP297.3

Opposite Direction: N/A

Upstream Station: Multnomah (2R304) to NB I-5

### Speed (mph) and Volume (VPLPH) at I-5 NB at Bertha (2R309) to NB I-5 02/10/2020 through 02/14/2020 : 00:00 and 23:59

SuMTuWThFSa with 15 Minute resolution for lane: all



Date Range ?

Time Range ?

Quantities ?

Configuration ?

Select Lane: ?

Start: 02/03/2020

End: 02/28/2020

Start: 00:00

End: 23:59

1st: Speed

2nd: Volume (VPLPH)

Resolution: 15min

Group: Yes

Lane: all

Sun Mon Tue Wed Thu Fri Sat

Update Charts

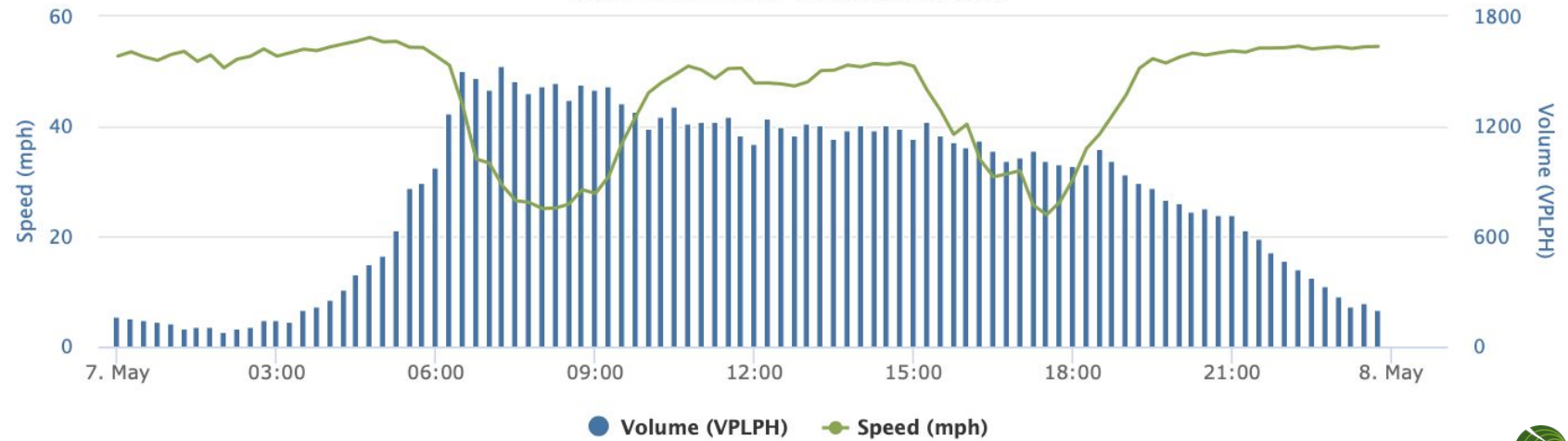
Downstream Station: Terwilliger (2DS054) @ NB I-5 MP297.3

Opposite Direction: N/A

Upstream Station: Multnomah (2R304) to NB I-5

### Speed (mph) and Volume (VPLPH) at I-5 NB at Bertha (2R309) to NB I-5 02/03/2020 through 02/28/2020 : 00:00 and 23:59

TuWTh with 15 Minute resolution for lane: all



Date Range ?

Time Range ?

Quantities ?

Configuration ?

Select Lane: ?

Start: 04/27/2020

Start: 00:00

1st: Speed

Resolution: 15min

Lane: all

End: 05/01/2020

End: 23:59

2nd: Volume (VPLPH)

Group: No

Sun Mon Tue Wed Thu Fri Sat

Update Charts

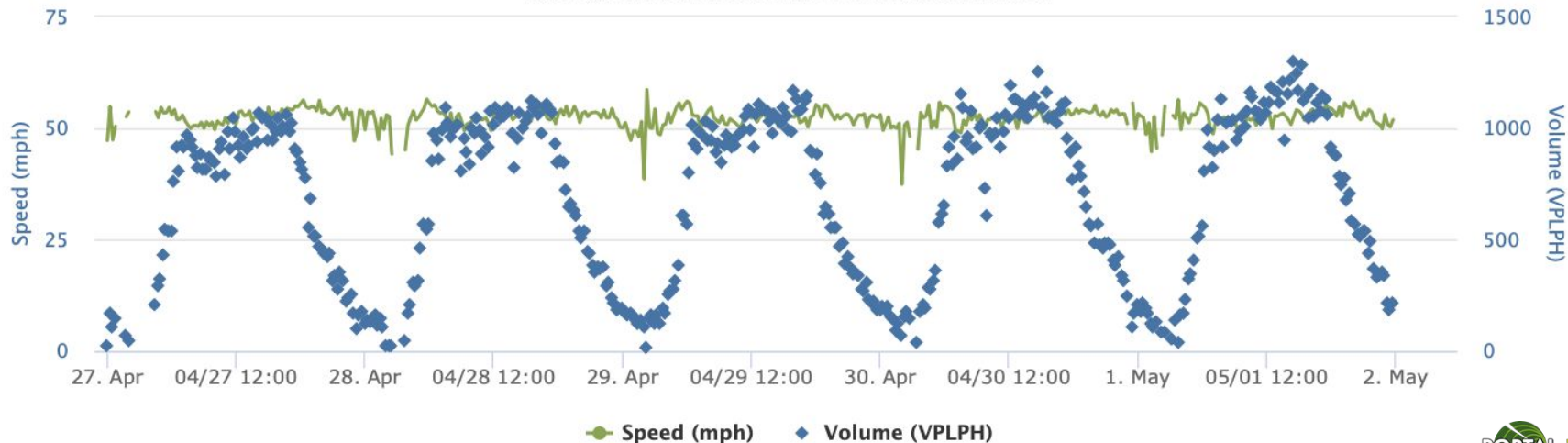
Downstream Station: Terwilliger (2DS054) @ NB I-5 MP297.3

Opposite Direction: N/A

Upstream Station: Multnomah (2R304) to NB I-5

### Speed (mph) and Volume (VPLPH) at I-5 NB at Bertha (2R309) to NB I-5 04/27/2020 through 05/01/2020 : 00:00 and 23:59

SuMTuWThFSa with 15 Minute resolution for lane: all



Date Range ?

Start: 04/27/2020

End: 05/01/2020

Sun Mon Tue Wed Thu Fri Sat

Time Range ?

Start: 00:00

End: 23:59

Quantities ?

1st: Speed

2nd: Volume (VPLPH)

Configuration ?

Resolution: 15min

Group: Yes

Select Lane: ?

Lane: all

Update Charts

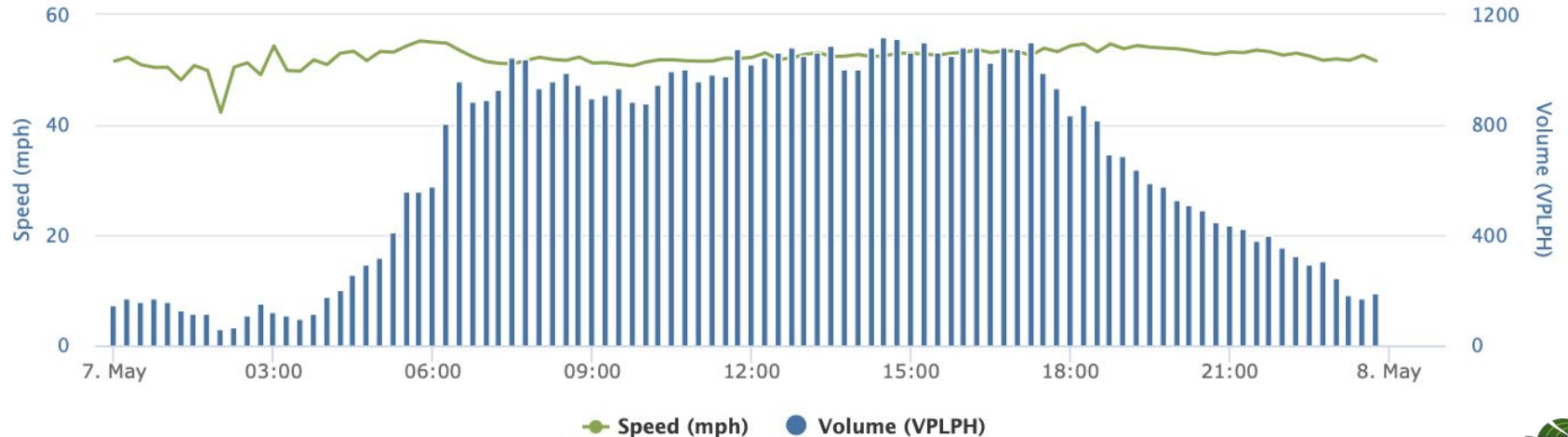
Downstream Station: Terwilliger (2DS054) @ NB I-5 MP297.3

Opposite Direction: N/A

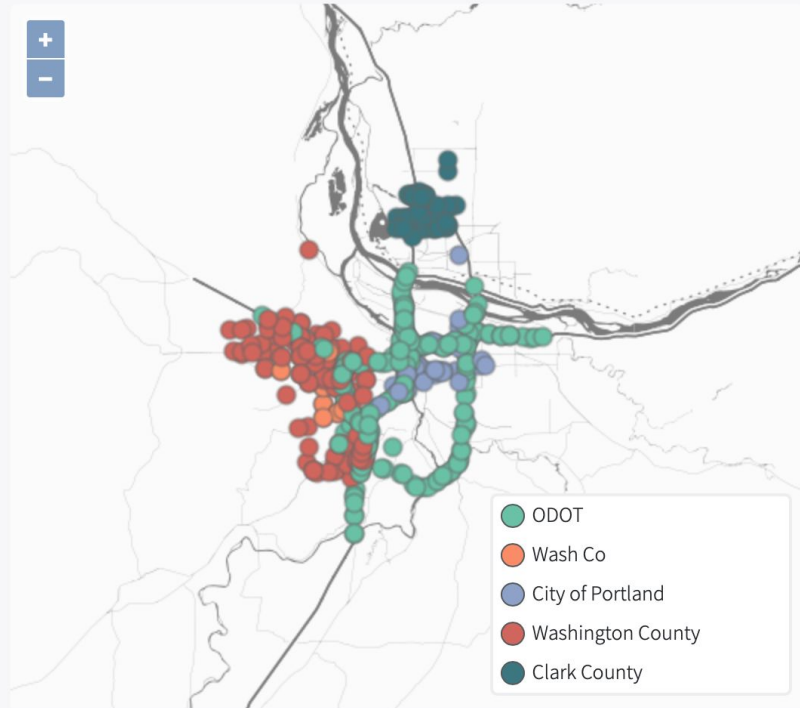
Upstream Station: Multnomah (2R304) to NB I-5

### Speed (mph) and Volume (VPLPH) at I-5 NB at Bertha (2R309) to NB I-5 04/27/2020 through 05/01/2020 : 00:00 and 23:59

SuMTuWThFSa with 15 Minute resolution for lane: all



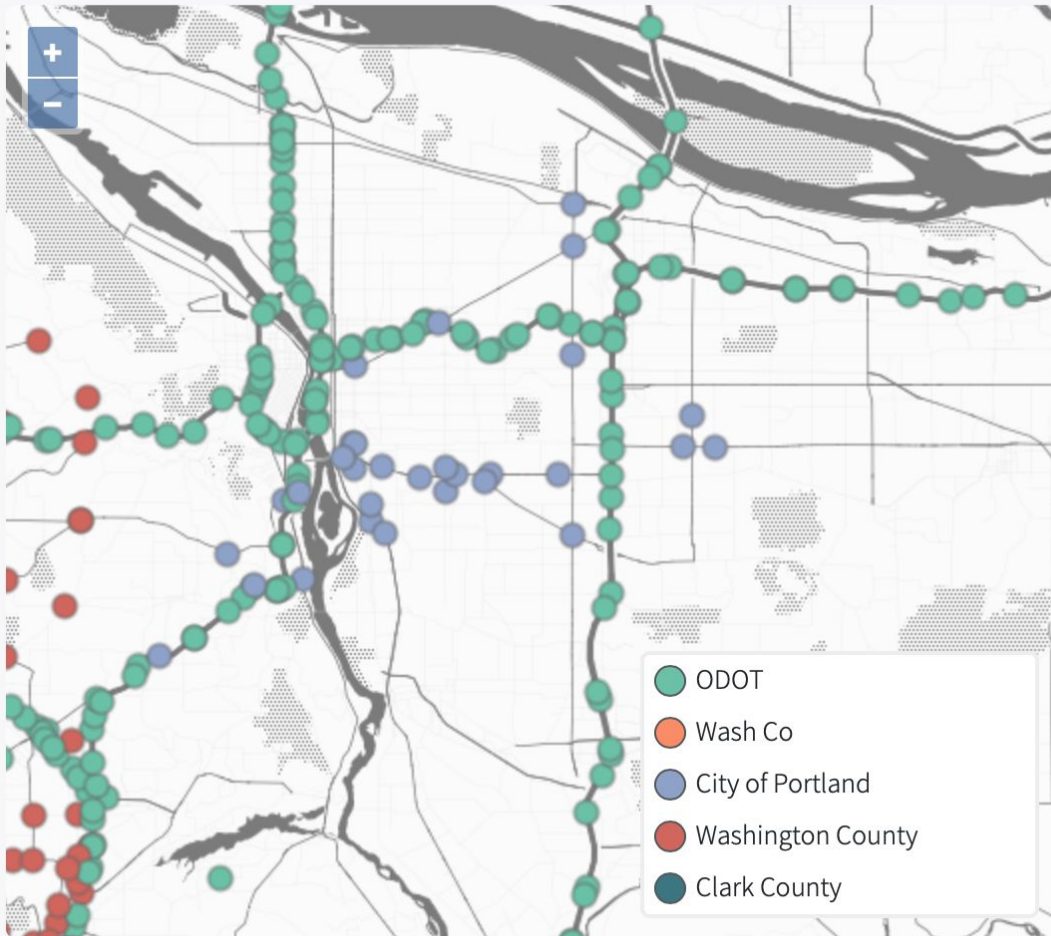
## Travel Time ⓘ

[Tour](#)

Routes ⓘ

Start week ⓘ

Reliability  
weeks[Standard](#)[Aggregate](#)[Yearly](#)[Update](#)[Download](#)



Routes **i**

Select a route

Start week **i**

2020-05-03



Reliability weeks

26

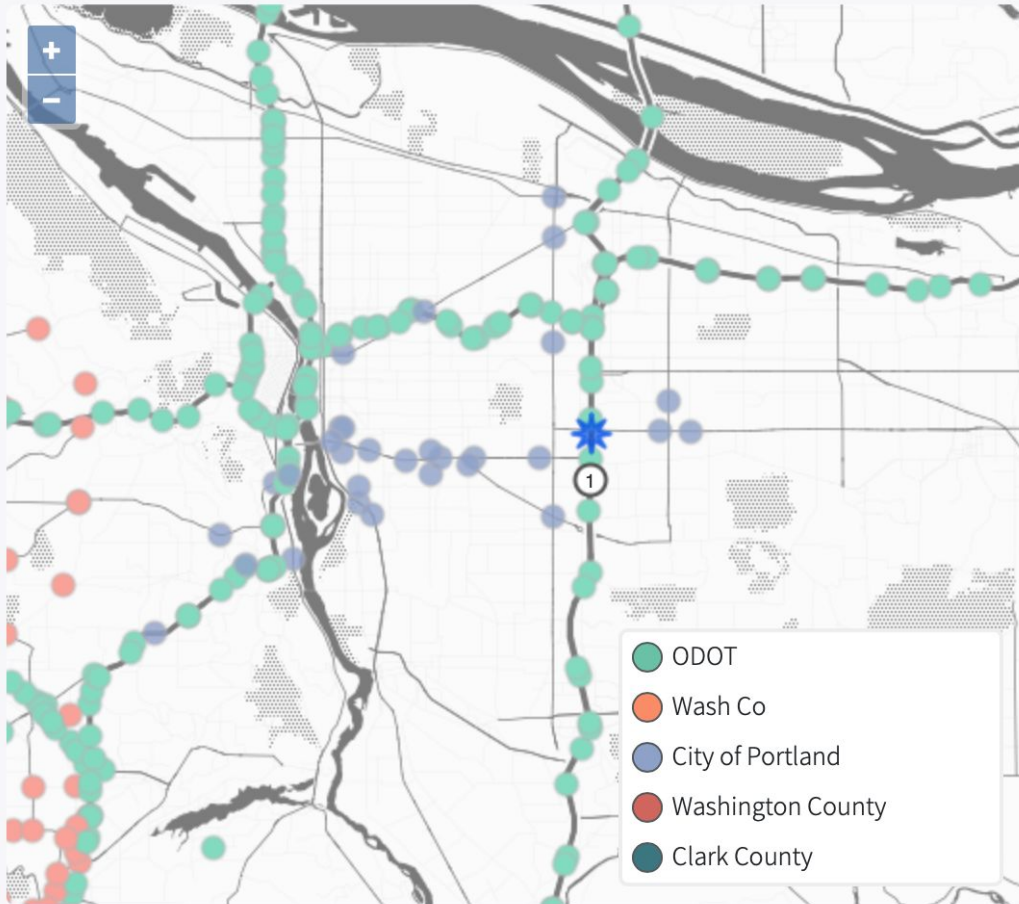
Standard

Aggregate

Yearly

Update

Download



Routes **i**

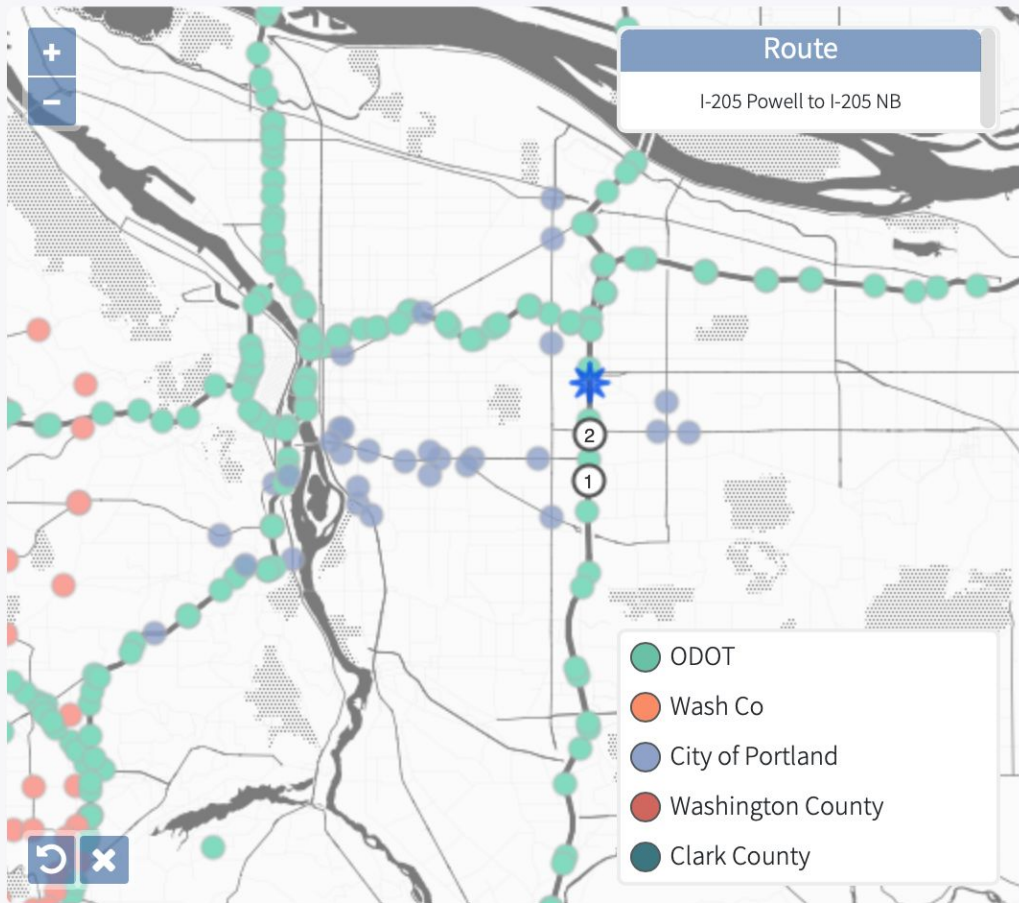
Start week **i**

Reliability weeks

[Standard](#) [Aggregate](#) [Yearly](#)

[Update](#) [Download](#)





**Route**  
I-205 Powell to I-205 NB

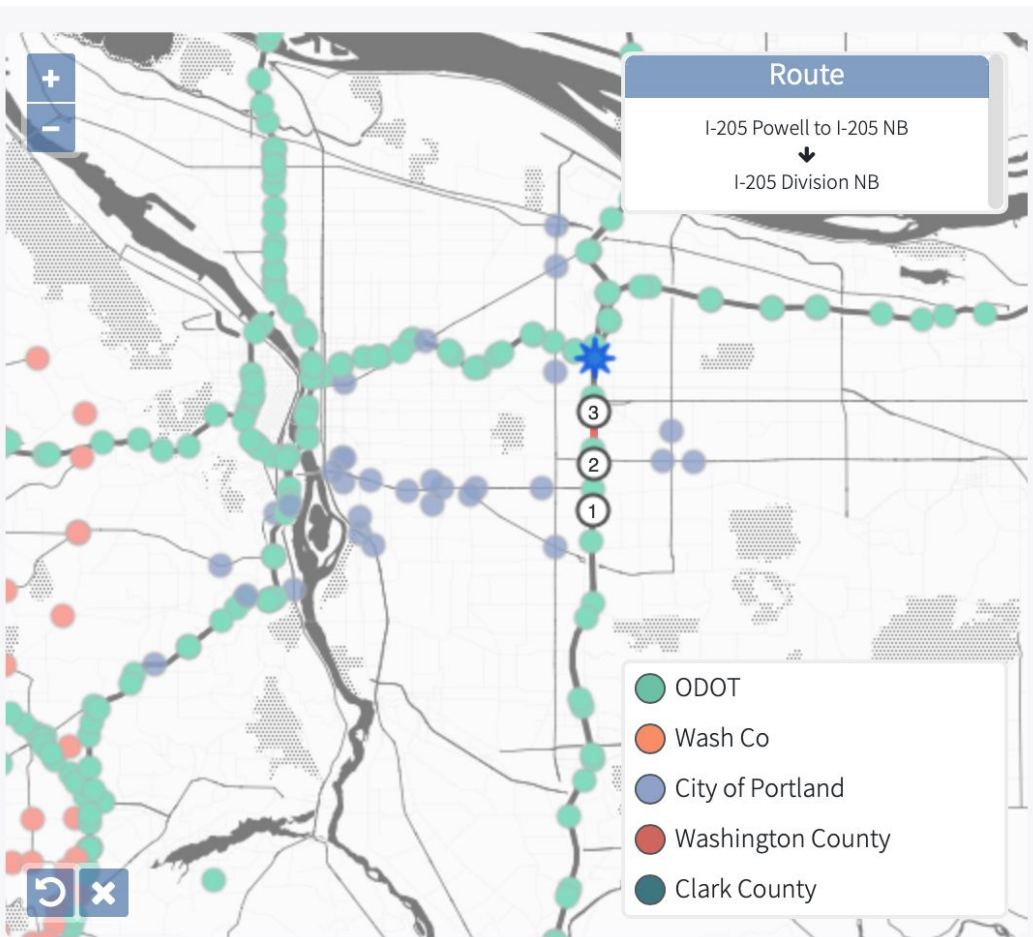
- ODOT
- Wash Co
- City of Portland
- Washington County
- Clark County

Routes ⓘ

Start week ⓘ

Reliability weeks

Standard  Aggregate  Yearly



Routes **i**

Select a route

Start week **i**

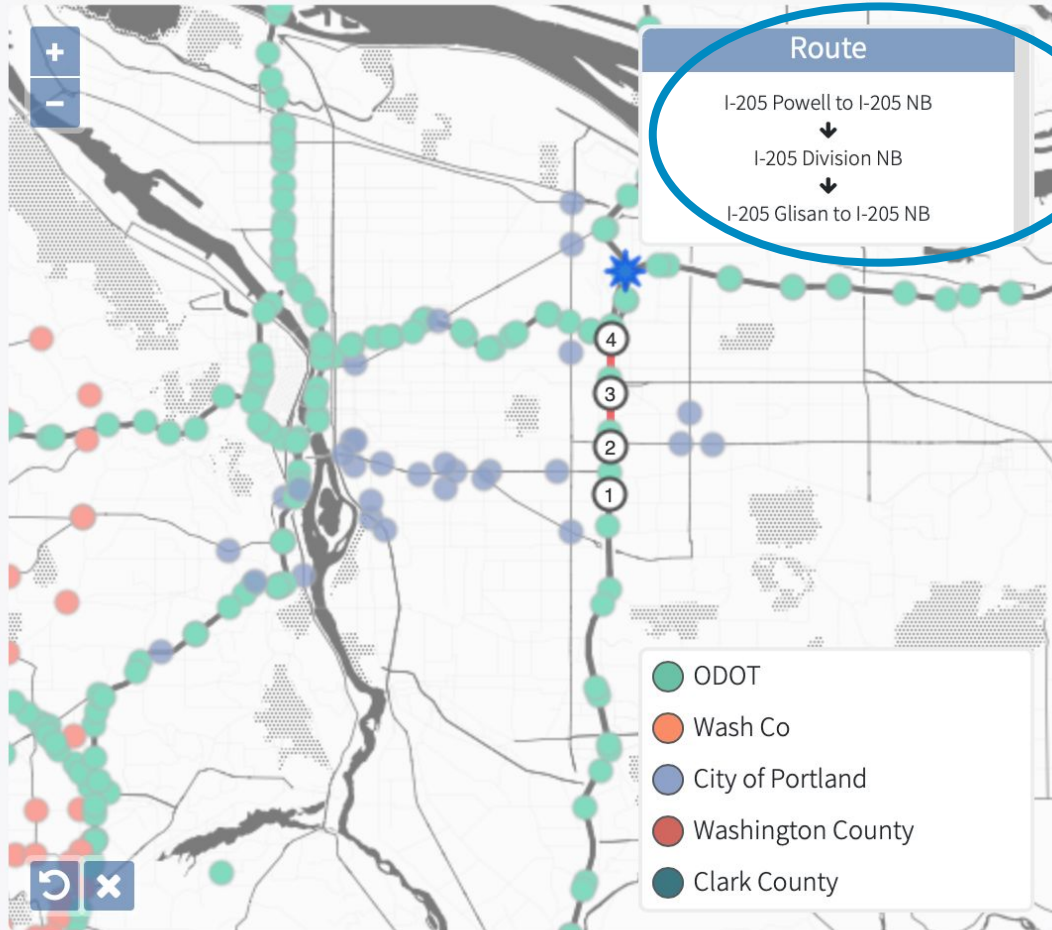
2020-05-03

Reliability weeks

26

**Standard** Aggregate Yearly

Update Download

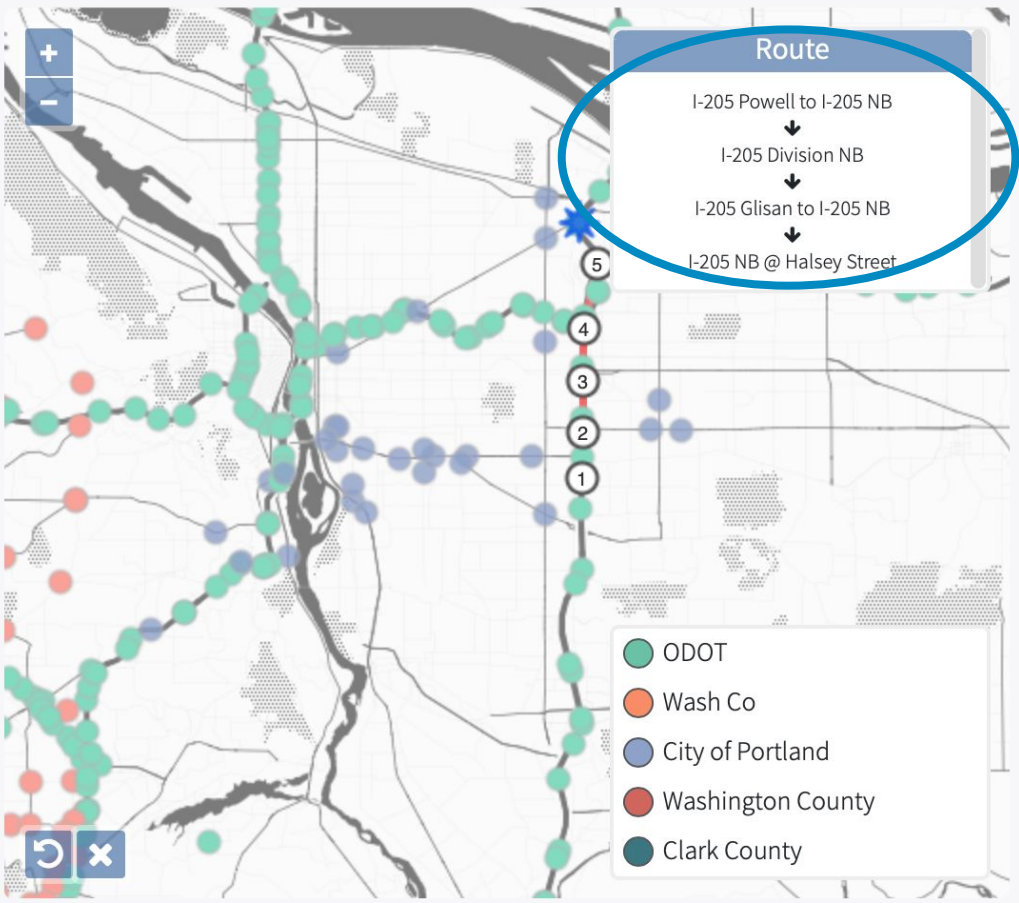


Routes 

Start week 

Reliability weeks



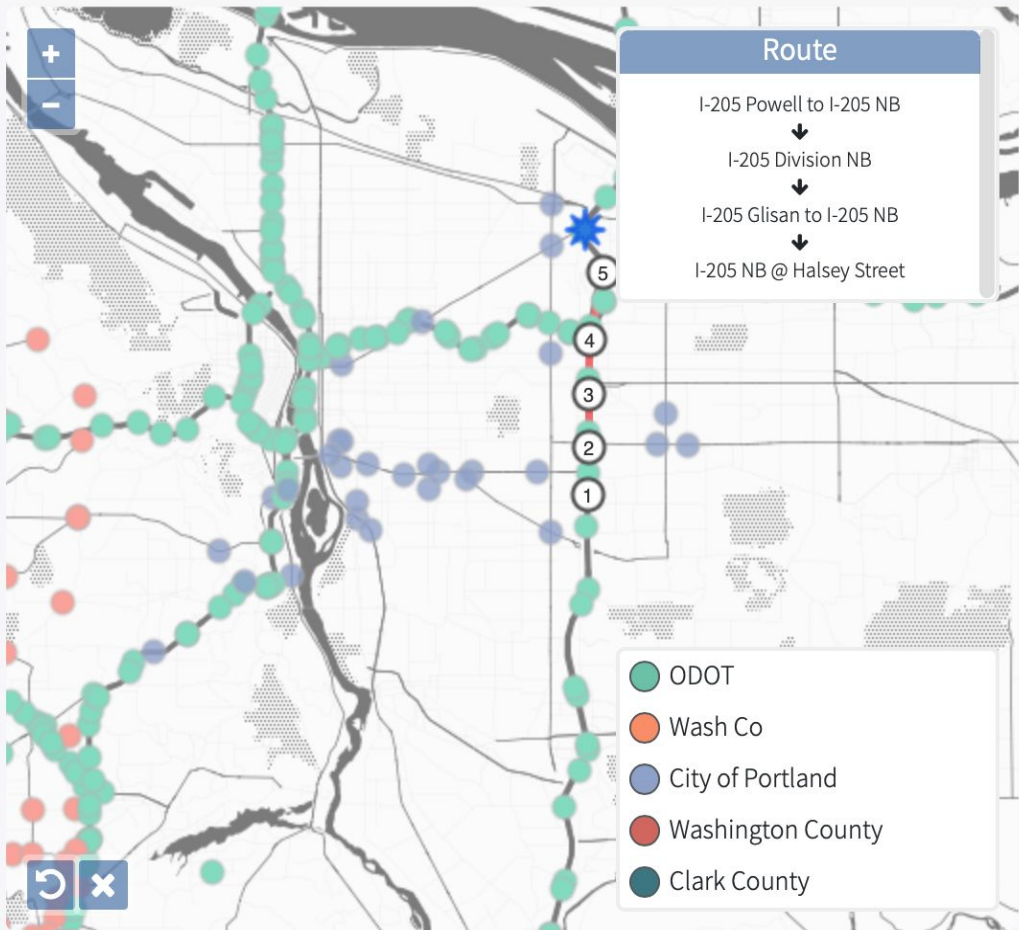
Routes ⓘ

Start week ⓘ

Reliability weeks

[Standard](#) [Aggregate](#) [Yearly](#)

[Update](#) [Download](#)



**Route**

- I-205 Powell to I-205 NB
- ↓
- I-205 Division NB
- ↓
- I-205 Glisan to I-205 NB
- ↓
- I-205 NB @ Halsey Street

- ODOT
- Wash Co
- City of Portland
- Washington County
- Clark County

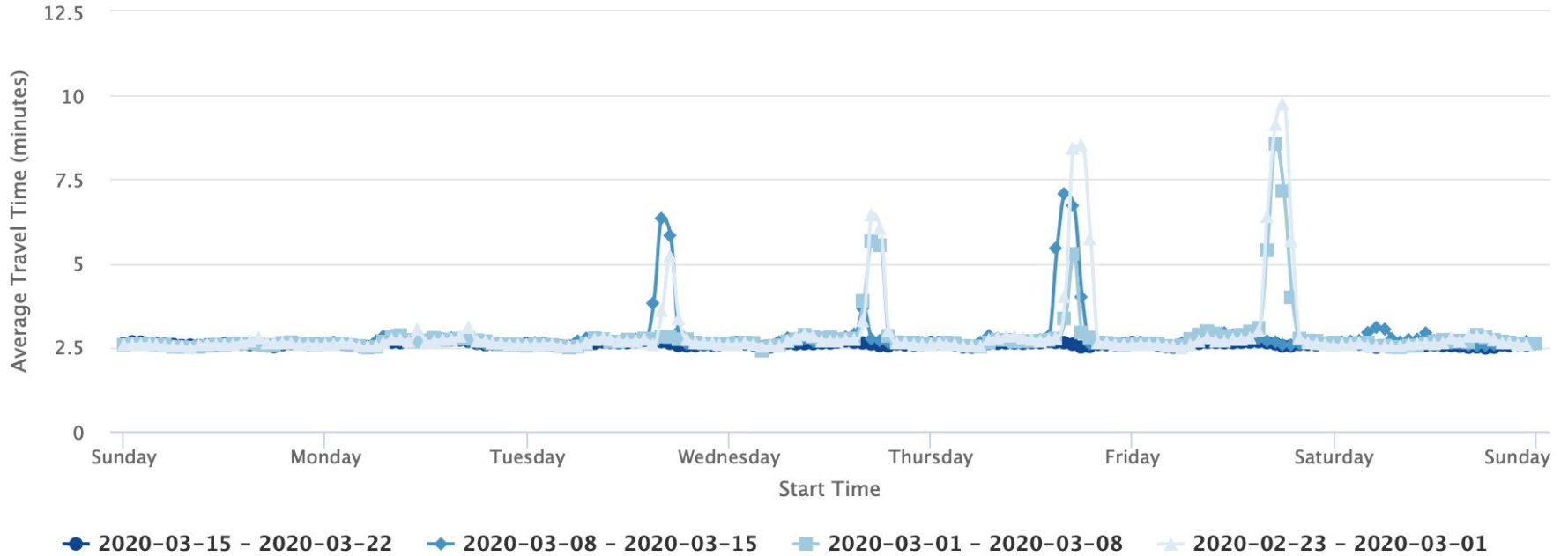
Routes **i**

Start week **i**

Reliability weeks

# Weekly travel time data for weeks 2020-02-23 → 2020-03-15

217 I-205 → 227 I-205

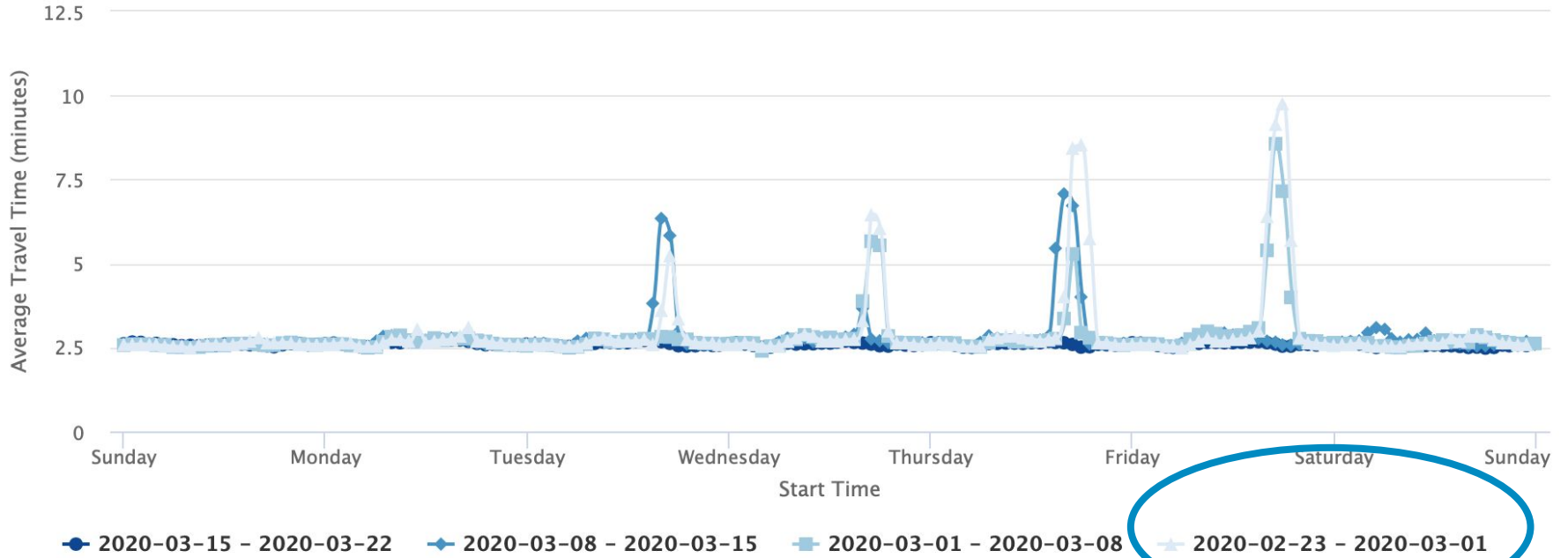


[Add/Remove Reliability Data](#)

[Add/Remove Sample Count Data](#)

# Weekly travel time data for weeks 2020-02-23 → 2020-03-15

217 I-205 → 227 I-205

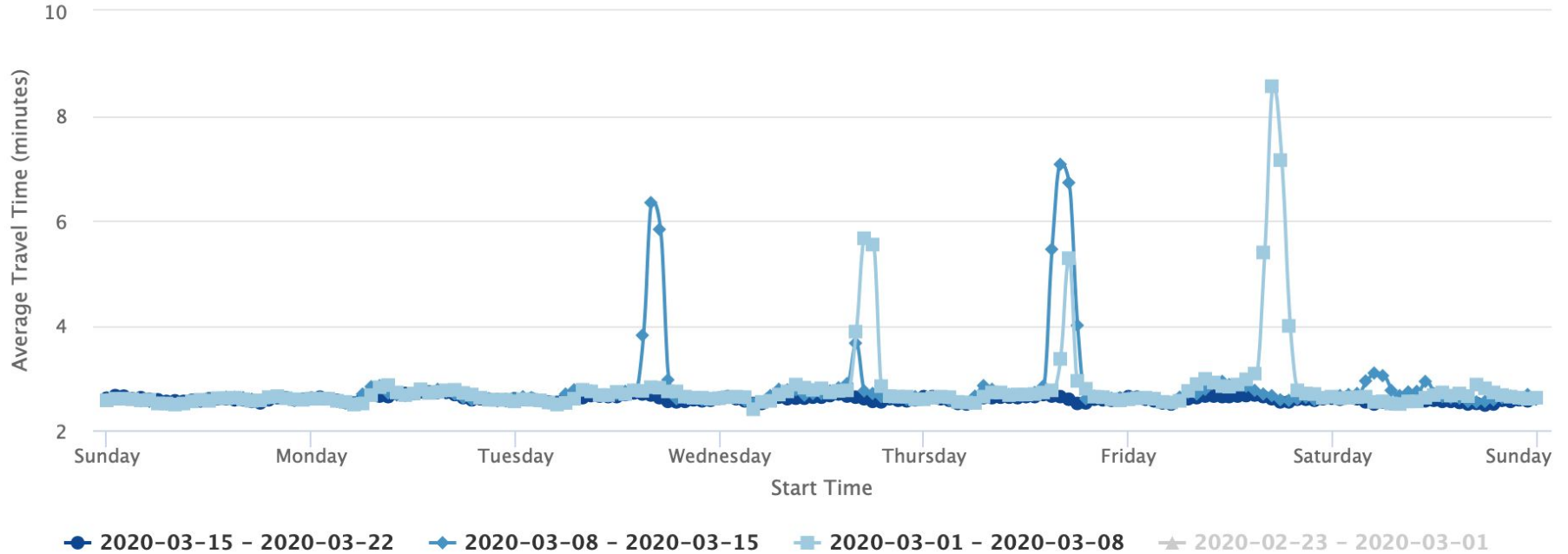


[Add/Remove Reliability Data](#)

[Add/Remove Sample Count Data](#)

# Weekly travel time data for weeks 2020-02-23 → 2020-03-15

217 I-205 → 227 I-205



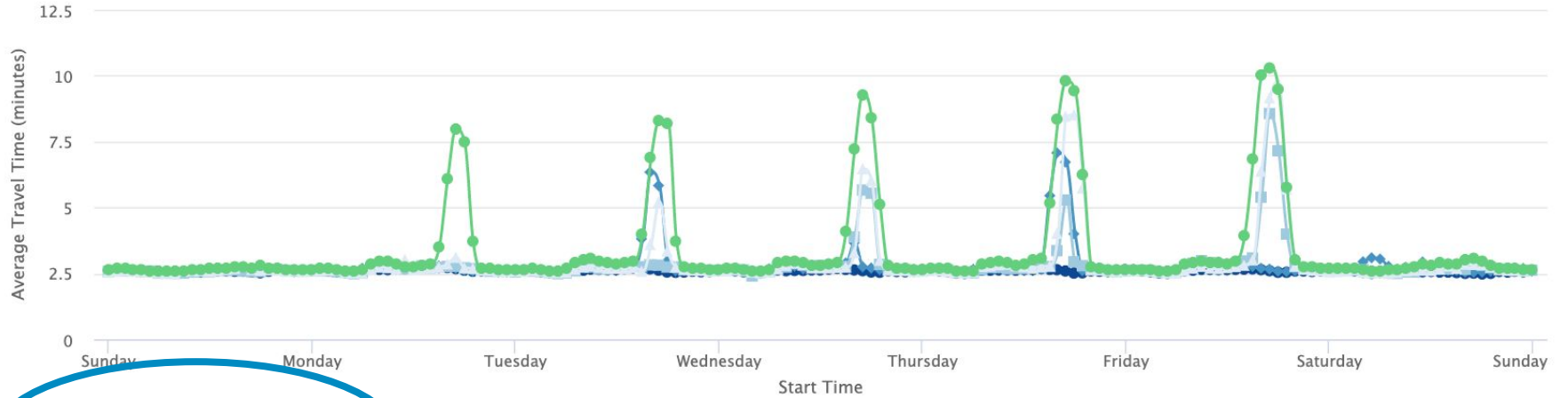
[Add/Remove Reliability Data](#)

[Add/Remove Sample Count Data](#)



# Weekly travel time data for weeks 2020-02-23 → 2020-03-15

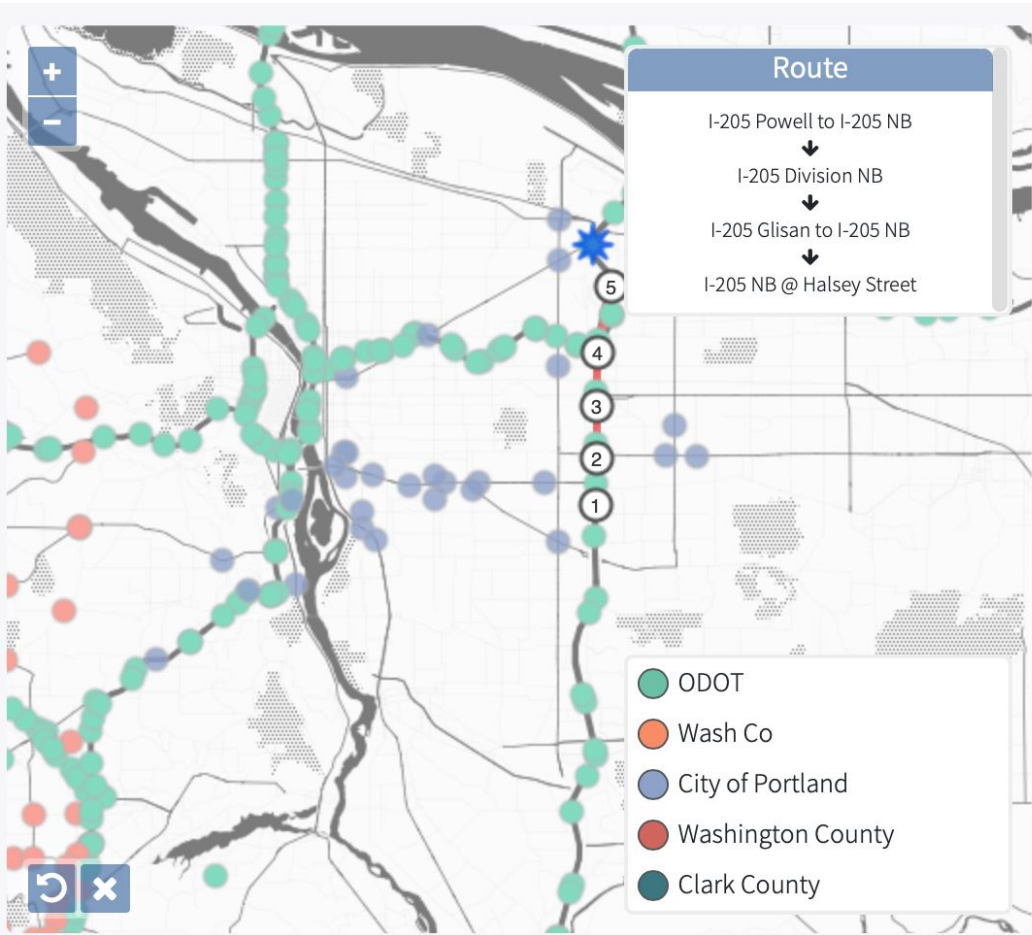
217 I-205 → 227 I-205



- 2020-03-15 - 2020-03-22
- 2020-03-08 - 2020-03-15
- 2020-03-01 - 2020-03-08
- 2020-02-23 - 2020-03-01
- 95% travel time (26 weeks)
- 80% travel time (26 weeks)
- 20% travel time (26 weeks)
- 5% travel time (26 weeks)
- avg travel time (26 weeks)

Add/Remove Reliability Data

Add/Remove Sample Count Data



Routes **i**

Select a route

Start week **i**

2020-03-15



Reliability weeks

26

Standard

Aggregate

Yearly

Sun

Mon

Tue

Wed

Thu

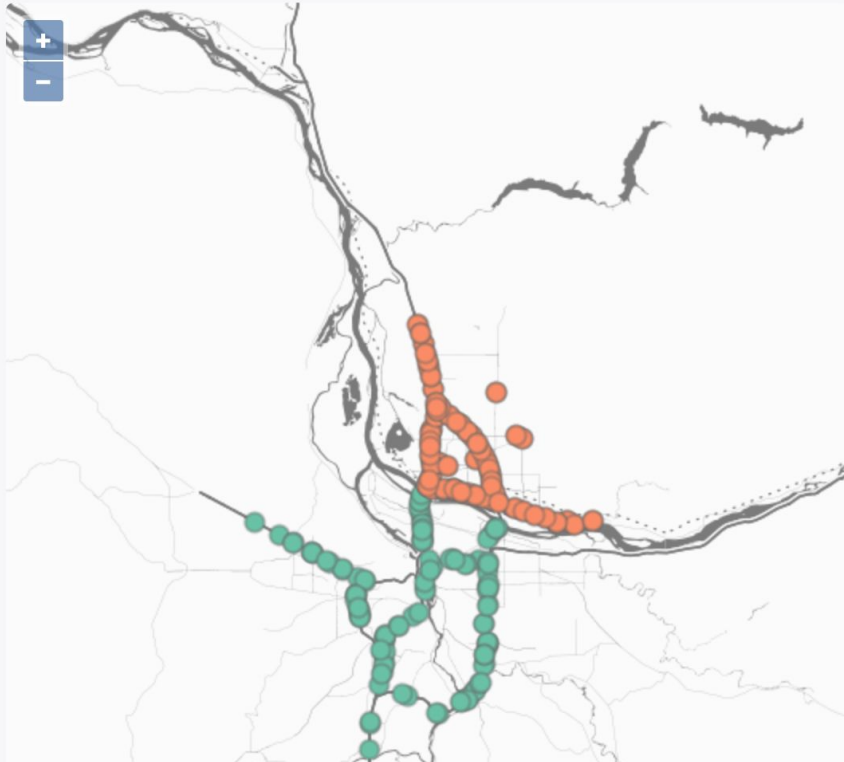
Fri

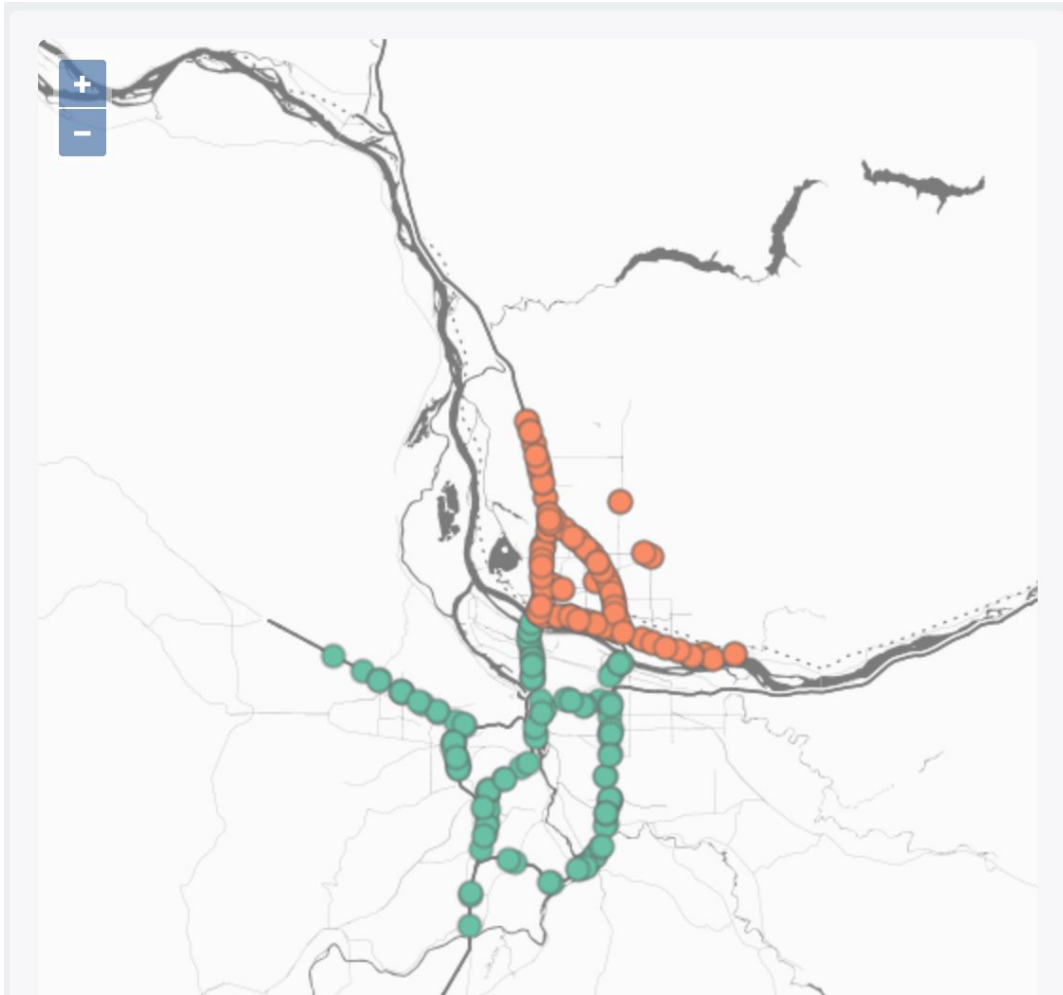
Sat

Update

Download

## Vehicle Length ?

[Tour](#)Station ?Start ?End ?Measure ?Resolution ? Standard Aggregate



Station ⓘ

Select a station ▲

mar| 🔍

**ODOT:I-5 NB**

Marine Dr/99E (2R007) to NB I-5

**ODOT:I-5 SB**

Marine Dr/99E (2R010) to SB I-5

Start ⓘ

End ⓘ

Measure ⓘ

Length ▾

Resolution ⓘ

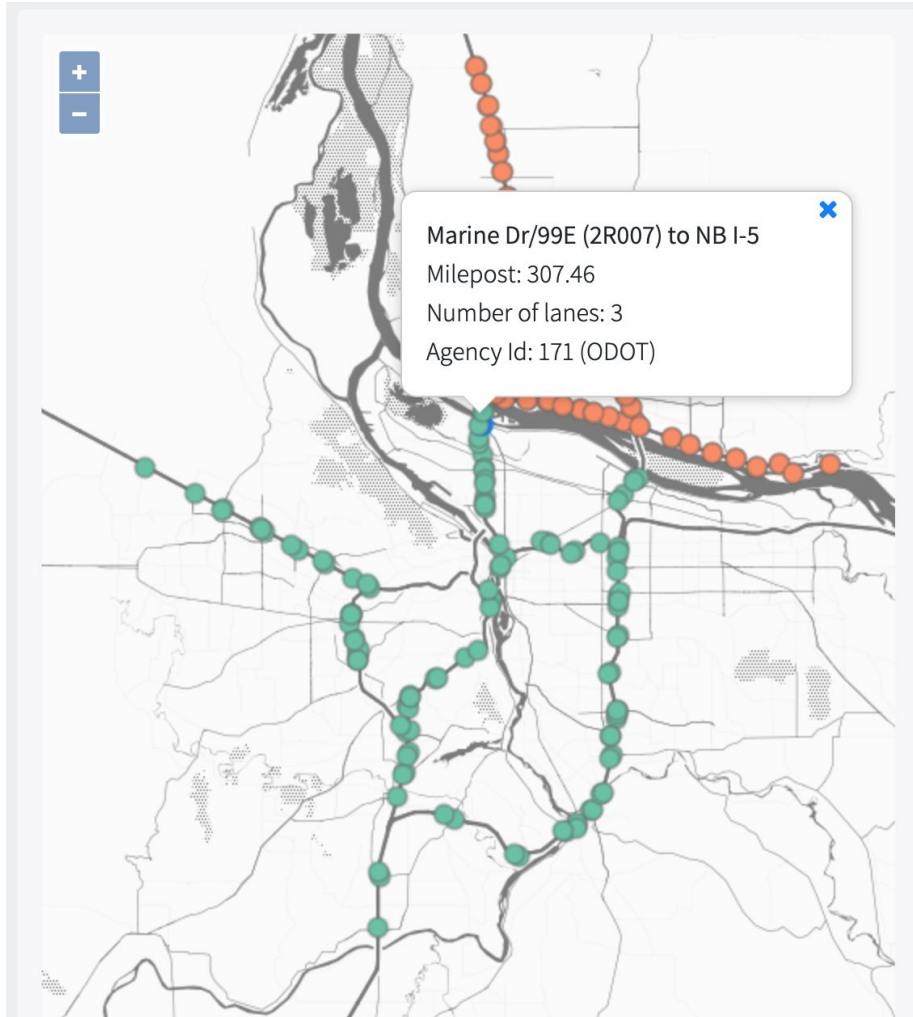
1hr ▾

Standard

Aggregate

Update

Download



Station **i** Marine Dr/99E (2R007) to NB I-5

Start **i** 2020-04-13

End **i** 2020-04-17

Measure **i** Length

Resolution **i** 1hr

Standard Aggregate

Update Download

Station **i** Marine Dr/99E (2R007) to NB I-5

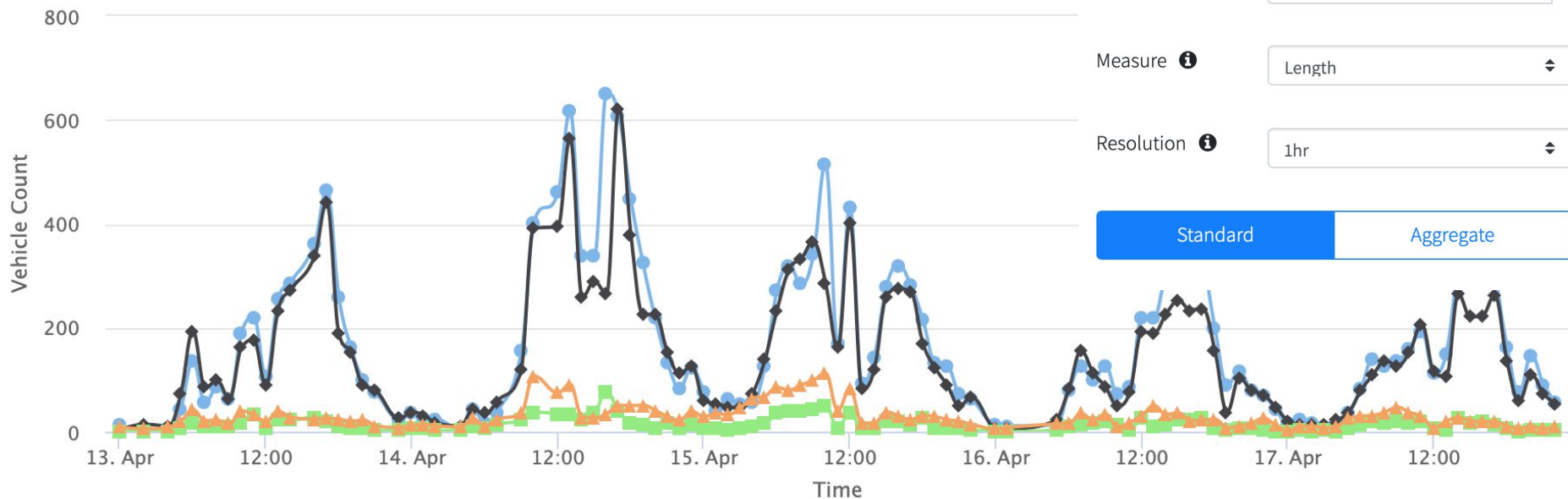
Start **i** 2020-04-13

End **i** 2020-04-17

Measure **i** Length

Resolution **i** 1hr

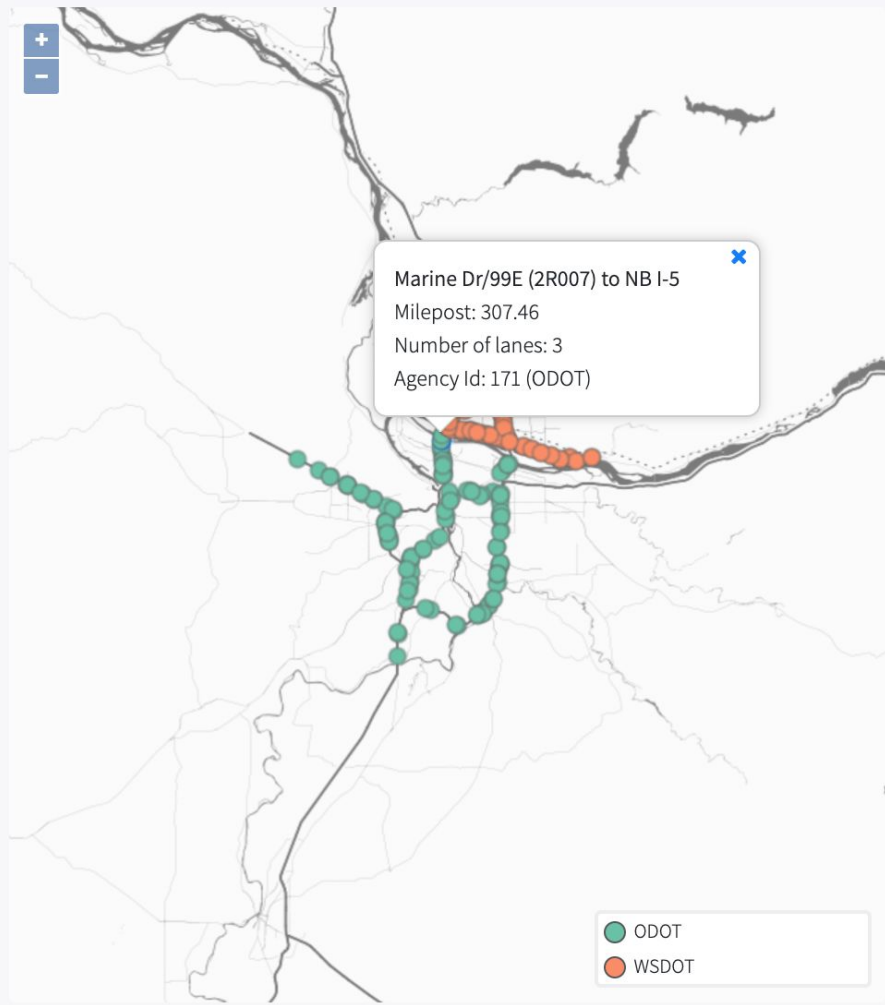
### Vehicle Counts in Length Ranges



Standard Aggregate

#### Vehicle length ranges

- (0,20.0] ft
- (20.0,35.0] ft
- (35.0,60.0] ft
- (60.0,120.0] ft



Station ⓘ Marine Dr/99E (2R007) to NB I-5

Start ⓘ 2020-01

End ⓘ 2020-05

Measure ⓘ Length

Standard Aggregate

Measure Ranges ⓘ

(0, 20.0] ft	(20.0, 35.0] ft
(35.0, 60.0] ft	(60.0, 120.0] ft

Week Days ⓘ Sun Mon Tue Wed Thu Fri Sat

Update Download

Standard

Aggregate

Measure Ranges ⓘ

(0, 20.0] ft

(20.0, 35.0] ft

(35.0, 60.0] ft

(60.0, 120.0] ft

Week Days ⓘ

Sun

Mon

Tue

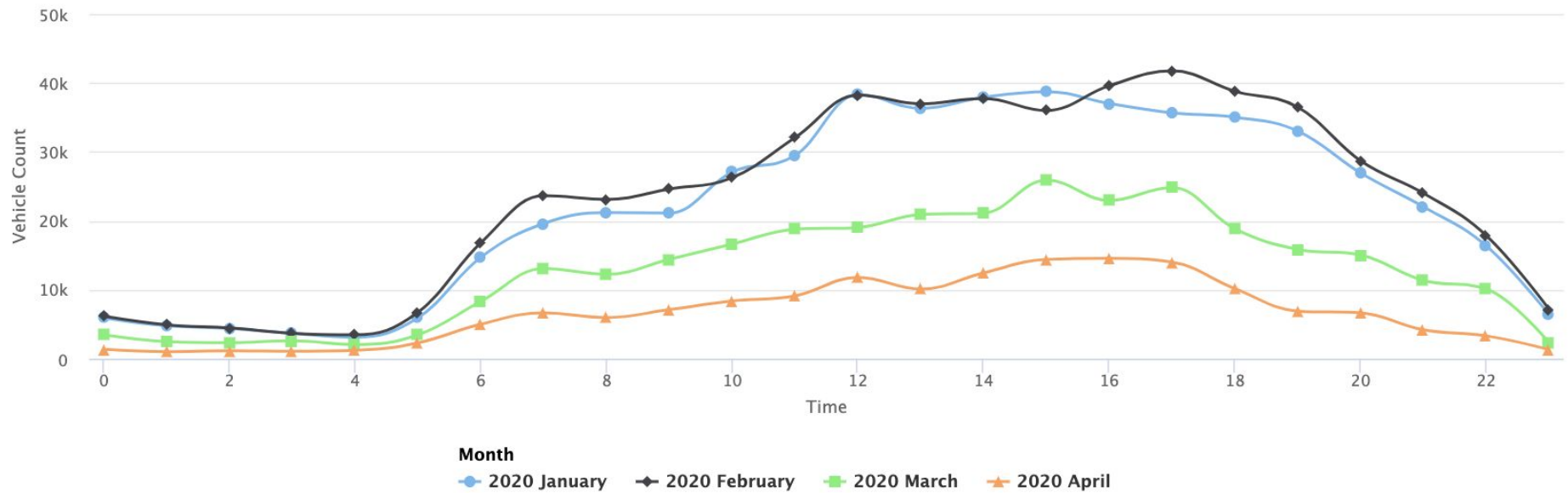
Wed

Thu

Fri

Sat

## Vehicle Counts in Length Ranges





# Additional features and data sources

- **Downloads:** Can download all data found on other pages in addition to other data (e.g. metadata, transit quarterly)
- Arterial
- Arterial Signal
- Incident data, VMS, VAS
- **Documentation site**
- **PORTAL Users Group**

The screenshot shows the PORTAL website's 'Downloads' section for 'Highways'. The page has a dark blue header with the PORTAL logo and navigation links: Home, Highways, Stations, Travel Time, Vehicle Length, Downloads, Arterial Signal, Arterial Signal, FHWA Data, and Documentation & Feed. The 'Downloads' section is highlighted in light blue. Below it, the 'Highways' section contains a form with the following fields: 'Start date' (calendar icon, 2020-05-07), 'End date' (calendar icon, 2020-05-07), 'Days of week' (radio buttons for Sun, Mon, Tue, Wed, Thu, Fri, Sat), 'Format' (dropdown menu, CSV), and 'Highway' (text input field with suggestions: I-205 SB, I-205 NB, I-405 SB, I-405 NB). Below the screenshot, there is a section titled 'PORTAL: User Documentation' with a background image of a river and hills. It includes a 'less than 1 minute read' icon and a brief description of PORTAL as the official transportation data archive for the Portland-Vancouver Metropolitan region.

## PORTAL

The official transportation data archive for the Portland-Vancouver Metropolitan region.

PORTAL is the official transportation data archive for the Portland-Vancouver Metropolitan region. Information provided in this space contains user documentation and additional resources for each page in PORTAL, data sources and availability, and release notes and notices.

Not all pages have been documented as this remains a work in progress. If there are any questions, comments, or recommendations please either email us or post an [issue](#).

## Recent posts

### [PUG Meeting 2020-03-18](#)

less than 1 minute read

Meeting location: ODOT, Room 337 (call-in available)

# Upcoming projects

- API documentation
- Travel time calculations across agencies
- BikePed Portal
- Scoping for potential new data sources (ATSPM)
- Adding new stations as they are installed
- Transit page
- Improvements to Arterial page

# BikePed Portal

BikePed Portal

Home

Explore

DashBoard

About

Login

## BikePed Portal

Leading the national non-motorized count data archive, BikePed Portal provides a centralized standard non-motorized count database for public agencies, researchers, educators, and other curious members of the public.

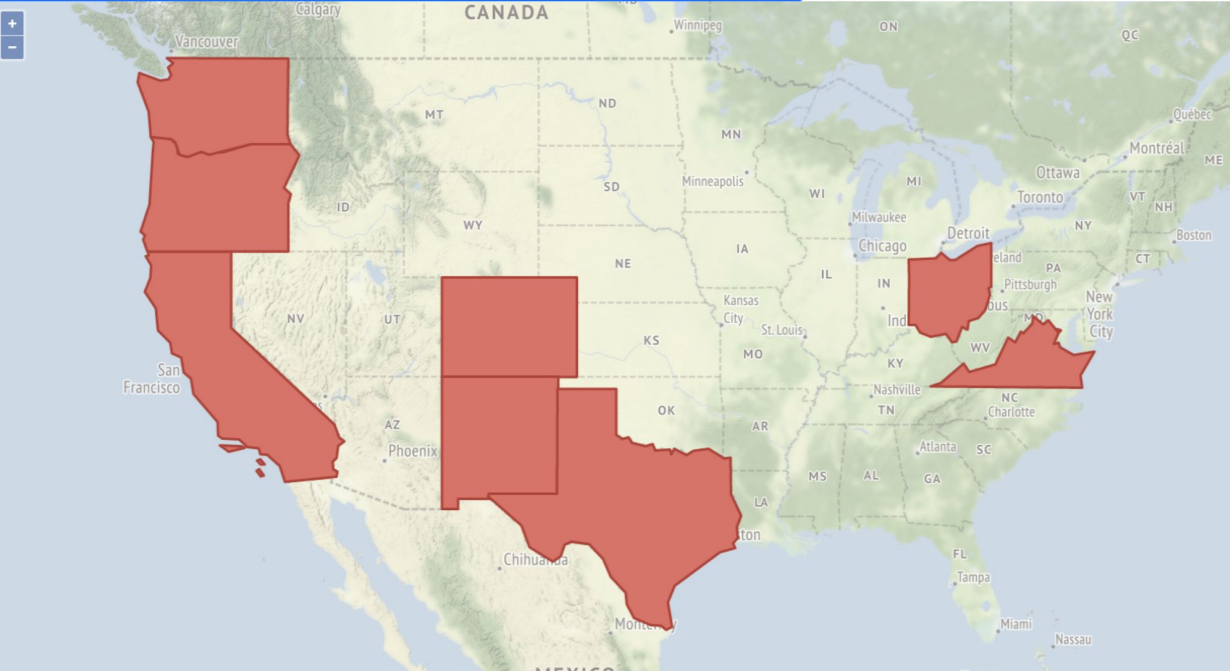
GET STARTED



# BikePed Portal: Explore

**BikePed Portal** Home Explore DashBoard About Login

Select Data Set Explore



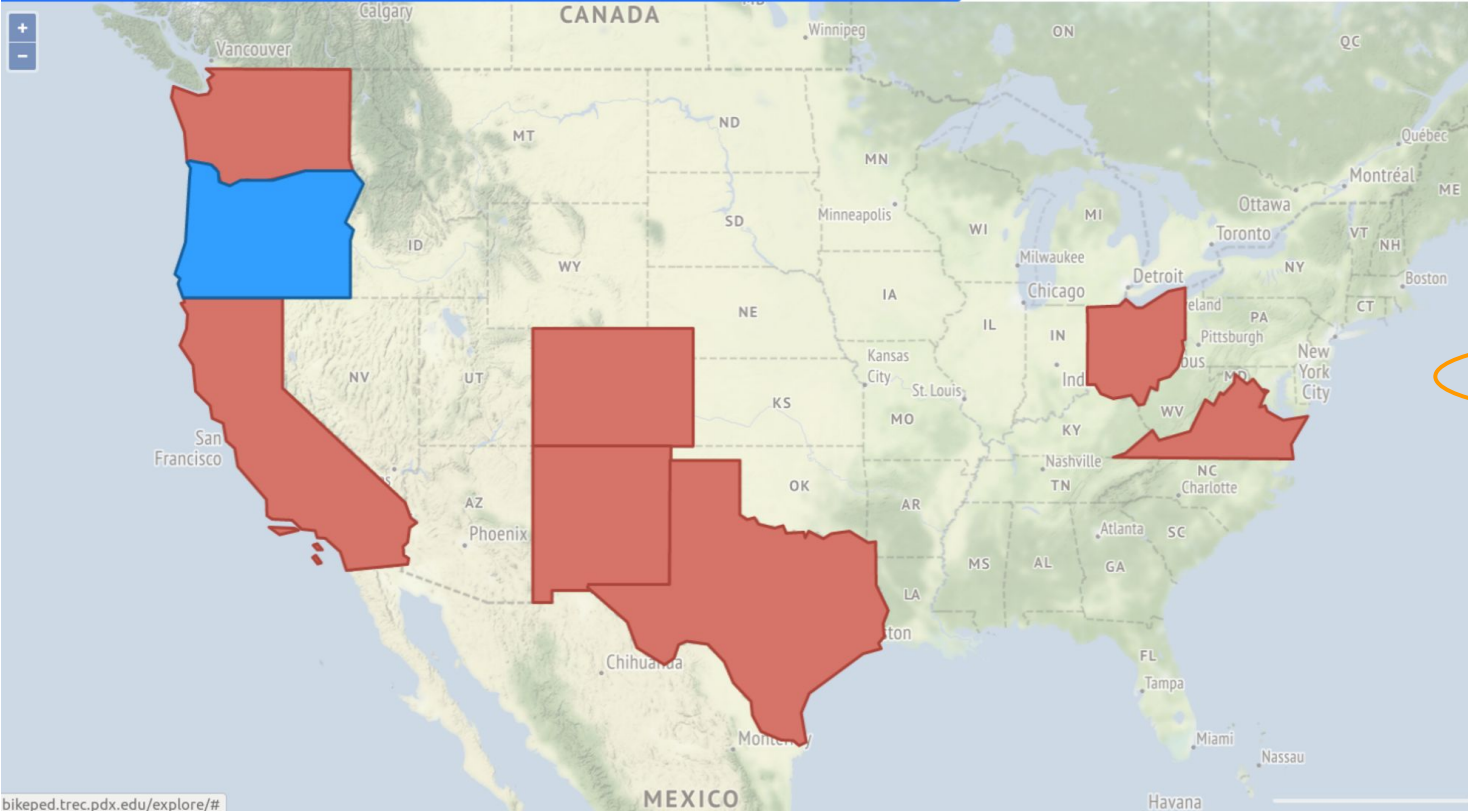
Select state of interest

- California
- Colorado
- District of Columbia
- New Mexico
- Ohio
- Oregon
- Texas
- Virginia
- Washington

MEXICO

1 Select Data Set

2 Explore

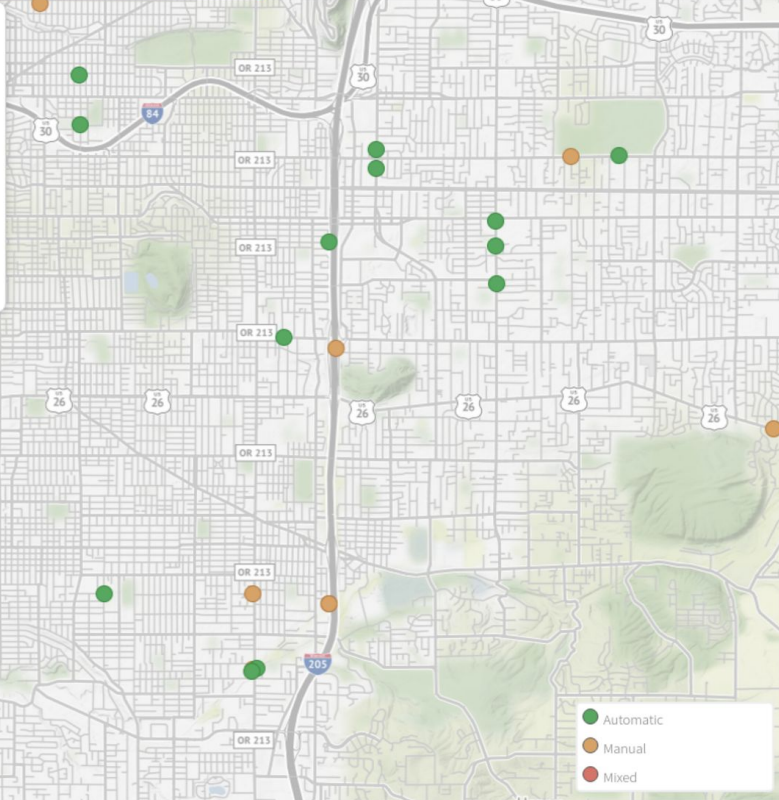
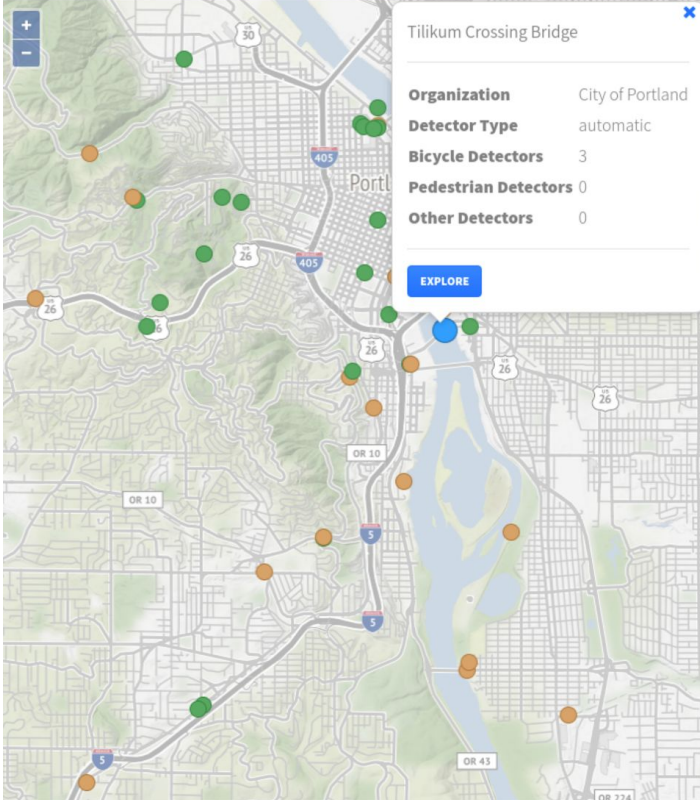


Select state of interest

- California
- Colorado
- District of Columbia
- New Mexico
- Ohio
- Oregon
- Texas
- Virginia
- Washington

1 Select Data Set

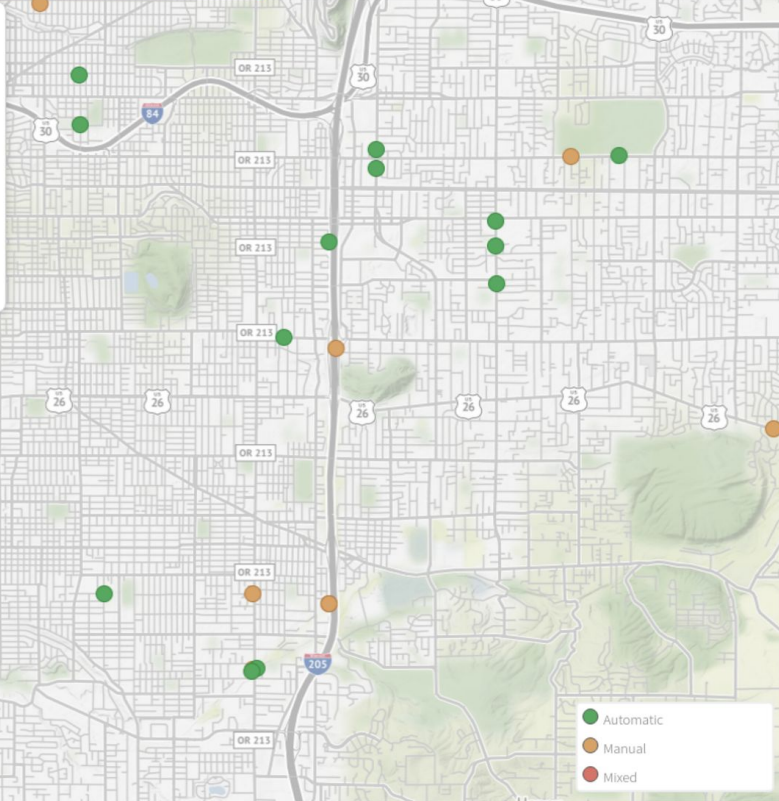
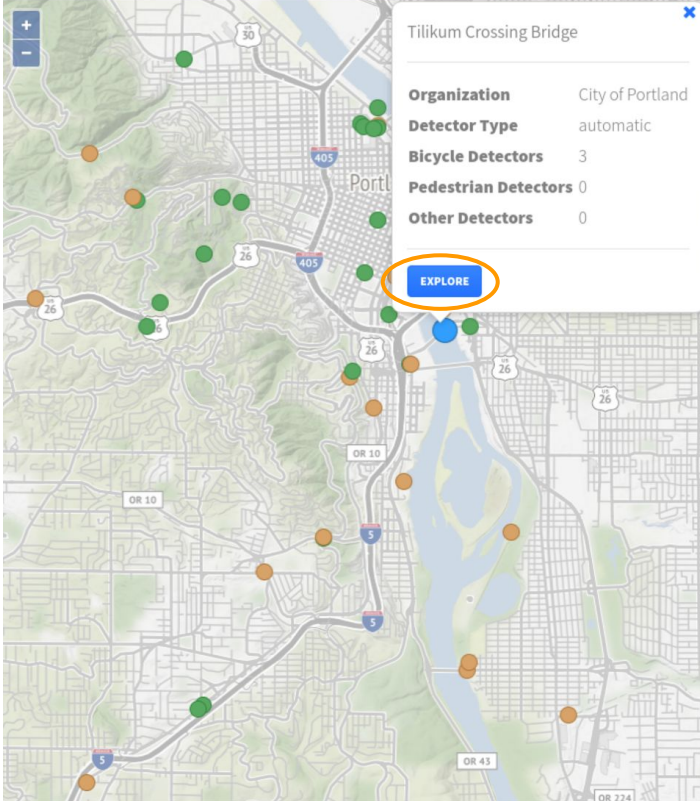
2 Explore



- Select segment area of interest
- SW Willamette Greenway at SW Landing Dr
  - Talent Suncrest Rd (Suncrest Rd)
  - Taney St N of Pattison St
  - Terry St N of Royal Ave
  - Terwilliger
  - Thurston Rd E of 58th St
  - Tilikum Crossing Bridge**
  - Tonquin Trail
  - Trail along Moody Ave (near Ross Island Bridge)
  - Trolley Trail (Concord Rd)
  - Tualatin Hills Nature Center
  - Tualatin Hills Nature Park
  - Tualatin River Greenway @ Barngrover

1 Select Data Set

2 Explore

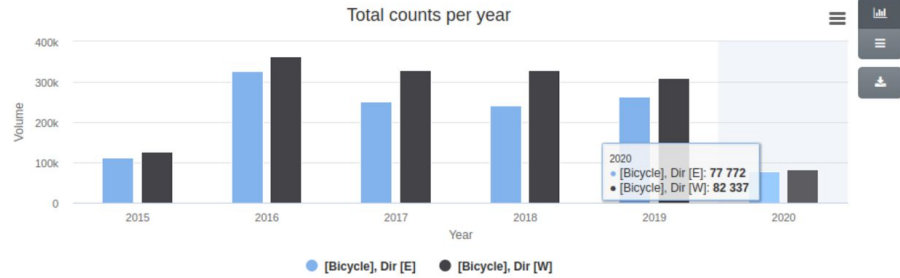


- Select segment area of interest
- SW Willamette Greenway at SW Landing Dr
  - Talent Suncrest Rd (Suncrest Rd)
  - Taney St N of Pattison St
  - Terry St N of Royal Ave
  - Terwilliger
  - Thurston Rd E of 58th St
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  - Tonquin Trail
  - Trail along Moody Ave (near Ross Island Bridge)
  - Trolley Trail (Concord Rd)
  - Tualatin Hills Nature Center
  - Tualatin Hills Nature Park
  - Tualatin River Greenway @ Barngrover

1 Select Data Set

2 Explore

Segment Area: Tilikum Crossing Bridge



Click on a year bar to view the monthly plot

Click on a year bar to view the monthly plot

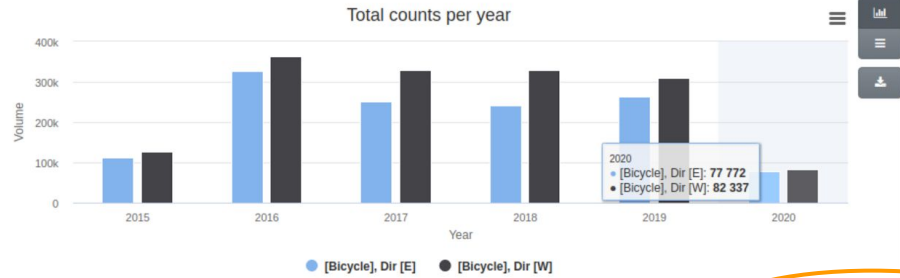
Click on a day bar to view the day data plot



1 Select Data Set

2 Explore

Segment Area: Tilikum Crossing Bridge



Click on a year bar to view the monthly plot

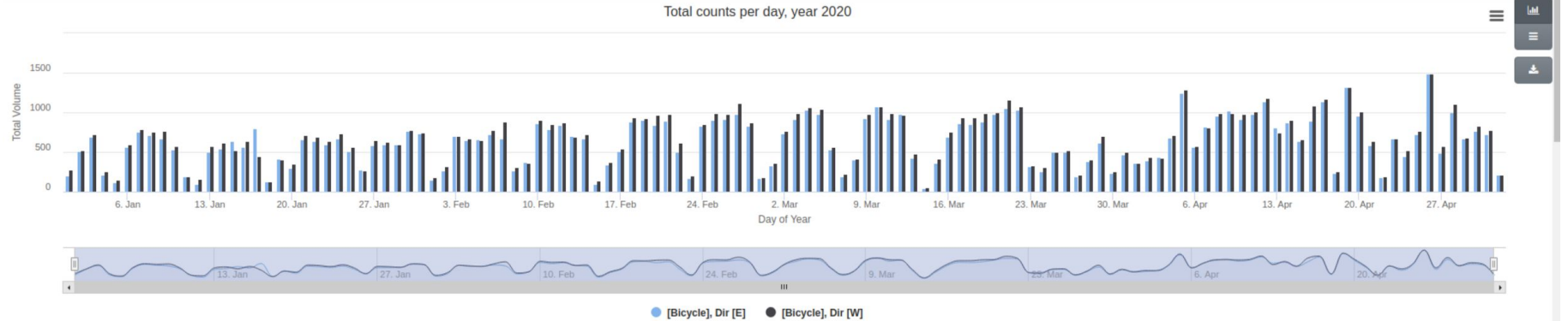
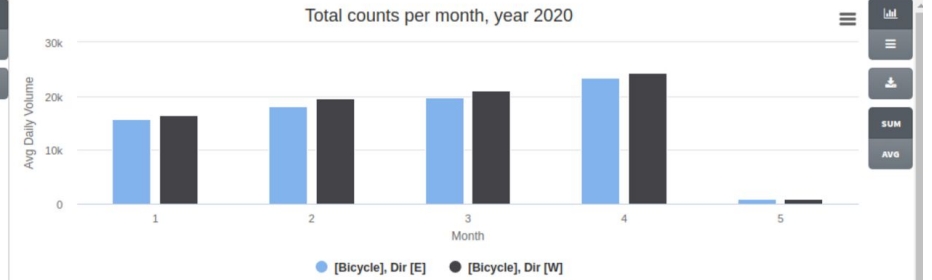
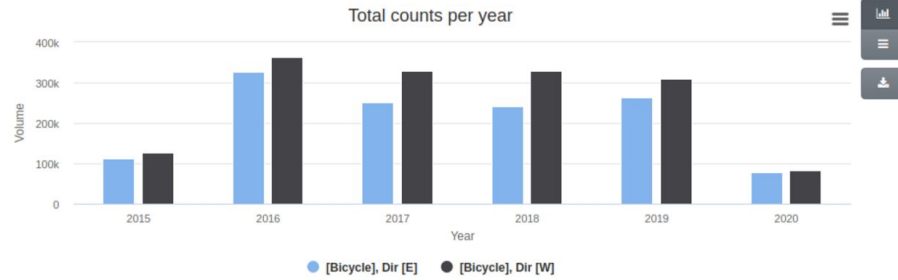
Click on a year bar to view the monthly plot

Click on a day bar to view the day data plot

1 Select Data Set

2 Explore

Segment Area: Tilikum Crossing Bridge

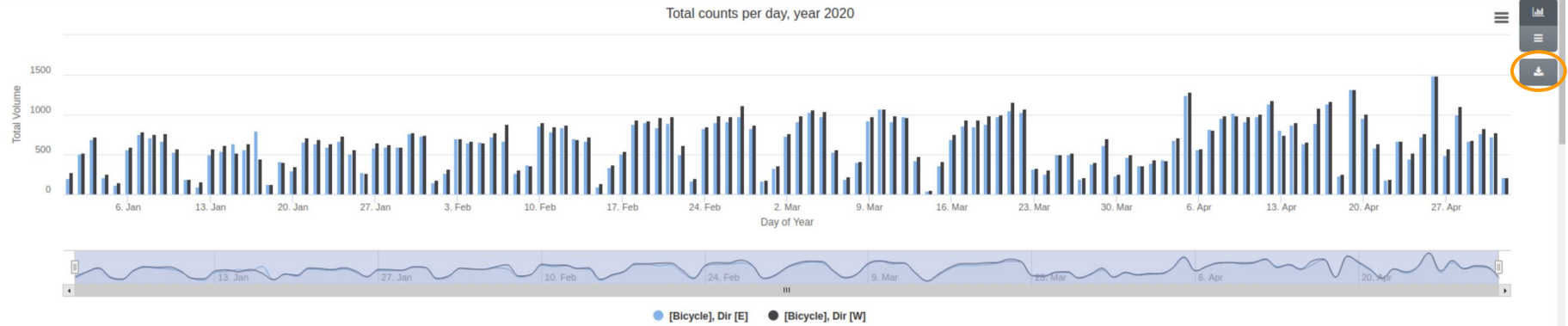
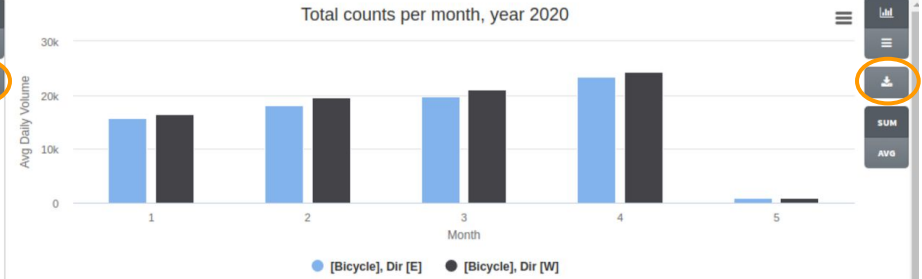
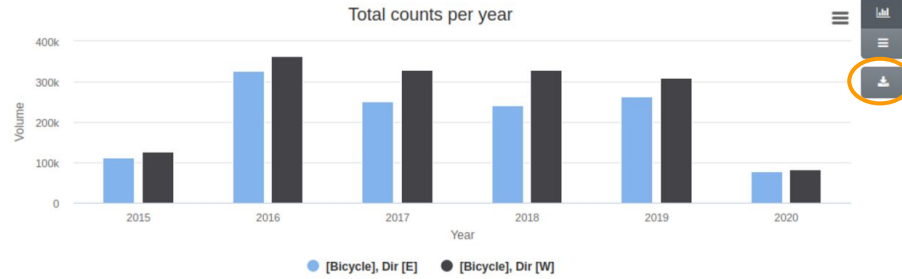


Click on a day bar to view the day-data plot

1 Select Data Set

2 Explore

Segment Area: Tilikum Crossing Bridge

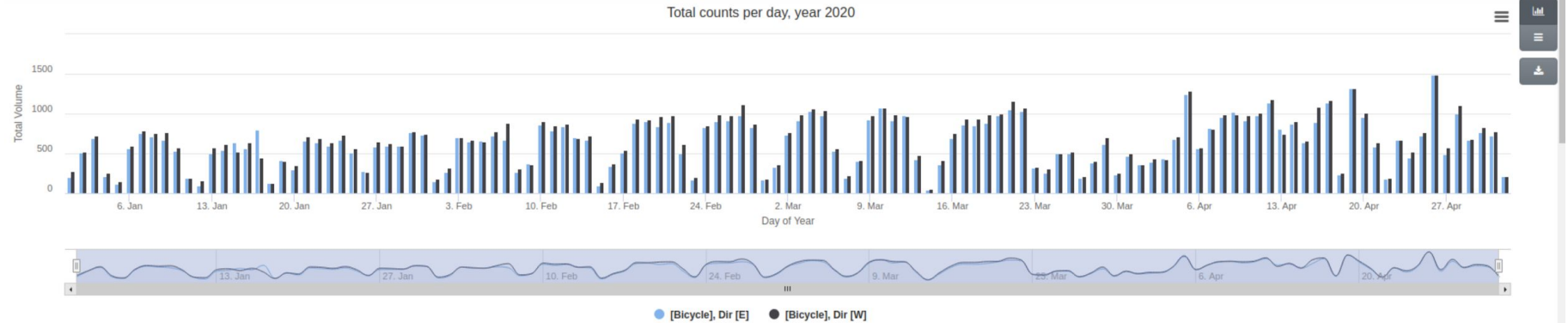
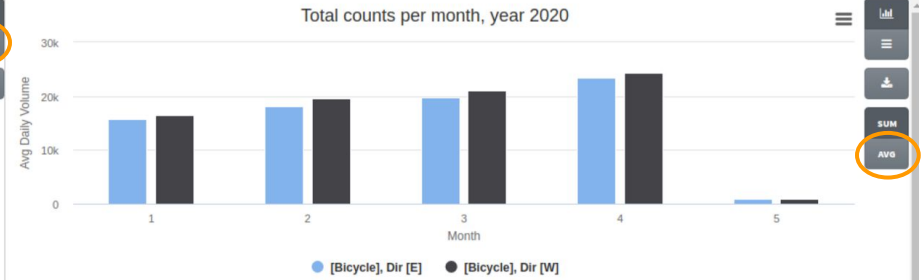
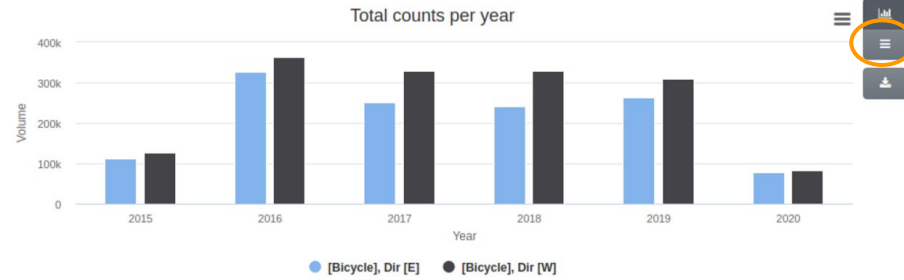


Click on a day bar to view the day-data plot

1 Select Data Set

2 Explore

Segment Area: Tilikum Crossing Bridge



Click on a day bar to view the day-data plot

1 Select Data Set

2 Explore

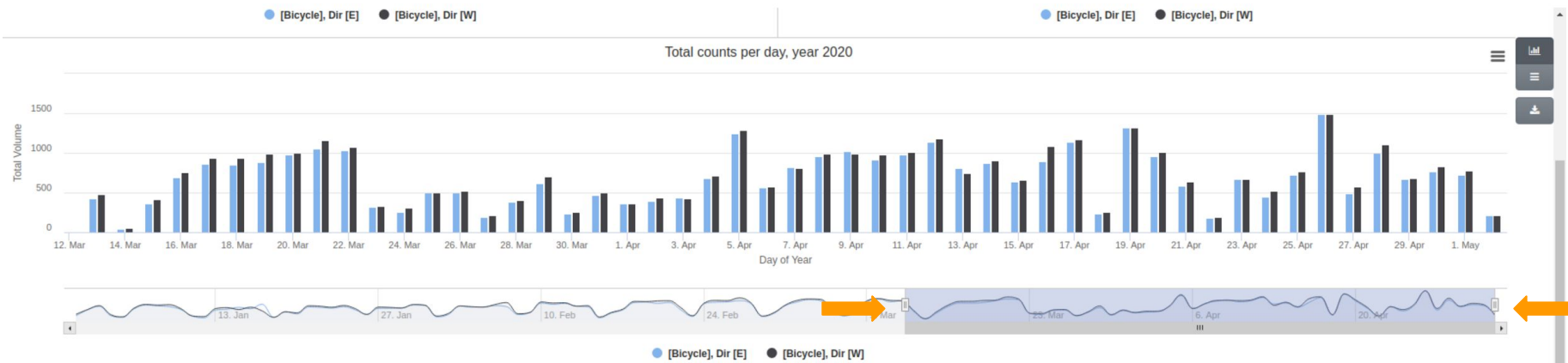
Segment Area: Tilikum Crossing Bridge



1 Select Data Set

2 Explore

Segment Area: Tilikum Crossing Bridge



Click on a day bar to view the day-data plot

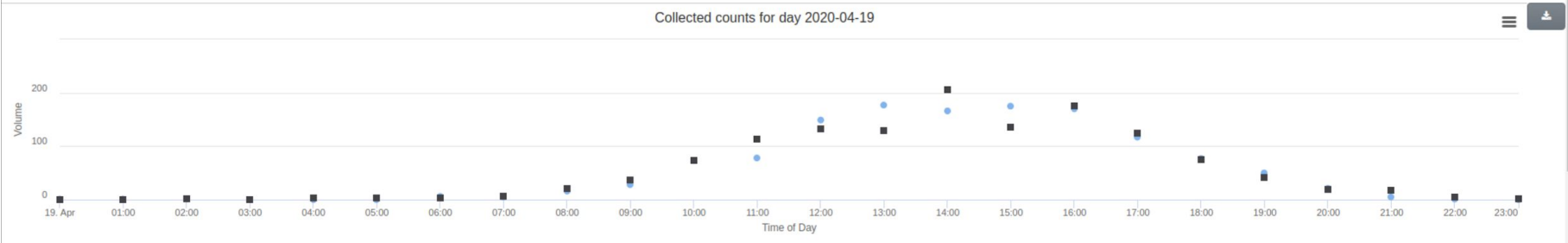
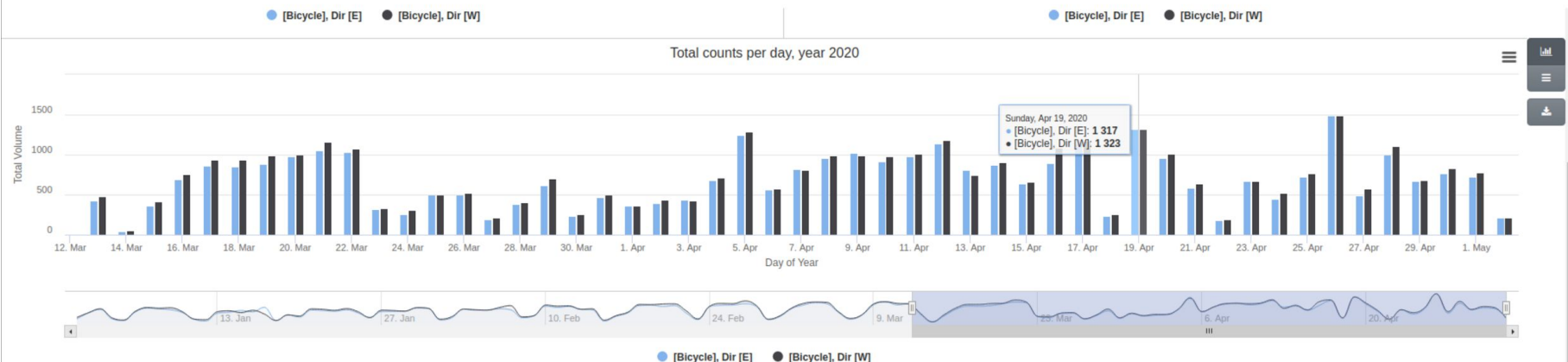
Navigation and utility icons:

- Menu icon (three horizontal lines)
- Download icon (downward arrow)
- Zoom in icon (plus sign)
- Zoom out icon (minus sign)

1 Select Data Set

2 Explore

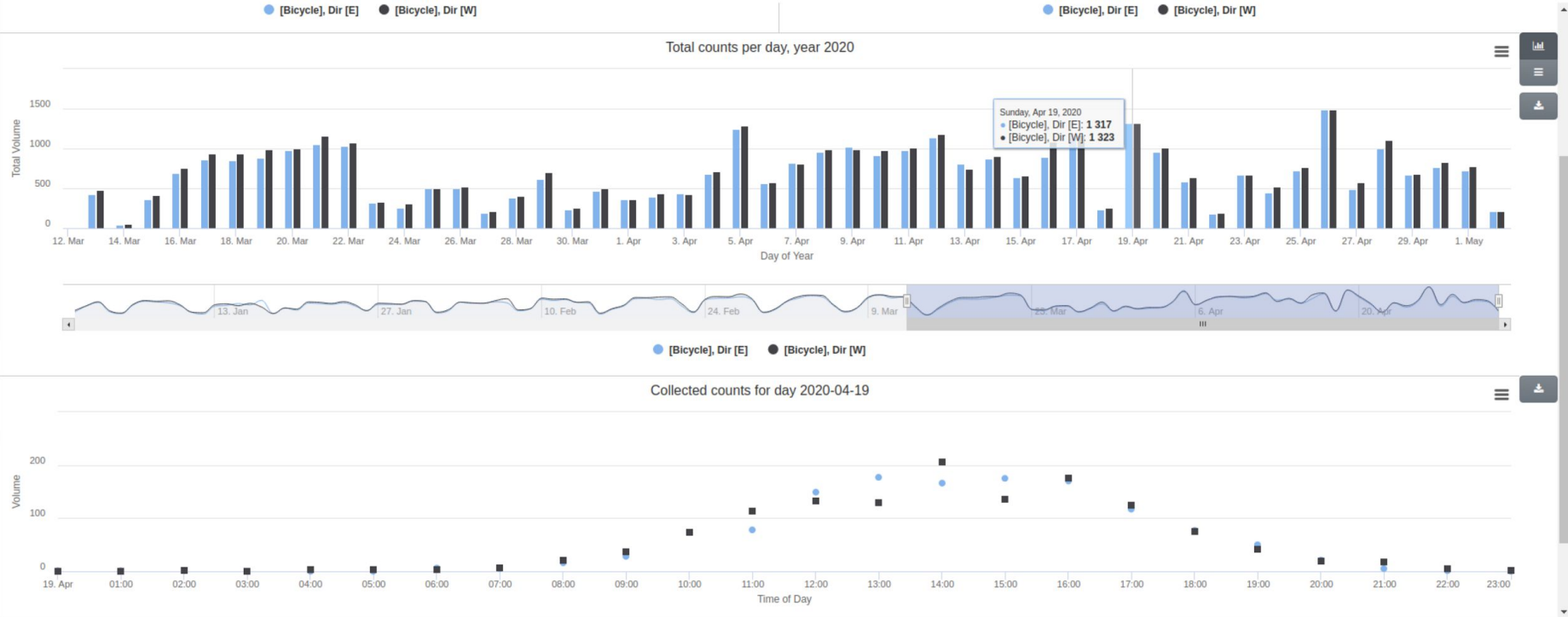
Segment Area: Tilikum Crossing Bridge



1 Select Data Set

2 Explore

Segment Area: Tilikum Crossing Bridge





[QAQC](#)

[Download Data](#)

[My Info](#)

[Change My Password](#)

## My Account: Welcome Jennifer Dill

QAQC

Download Data

My Info

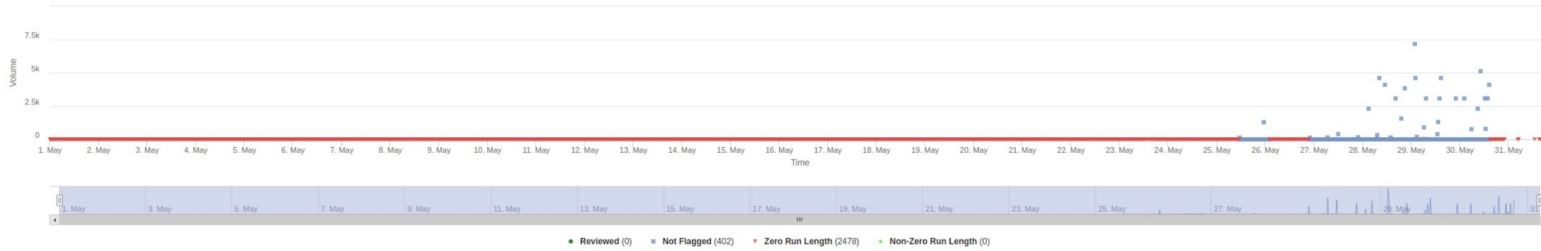
Change My Password

My Account: Welcome Jennifer Dill

## 1 Select Data Set

## 2 Review

Flow detector (1903) data for 2019 - 05



#	Review Status	Start Time	End Time	Volume	Zero Length Run	Non-Zero Length Run	Rolling Median	Upload Id
71863814	Not Reviewed	2019-05-01 00:00	2019-05-01 00:15	0	S	0	0	4297
71863815	Not Reviewed	2019-05-01 00:15	2019-05-01 00:30	0	S	0	0	4297
71863816	Not Reviewed	2019-05-01 00:30	2019-05-01 00:45	0	S	0	0	4297
71863817	Not Reviewed	2019-05-01 00:45	2019-05-01 01:00	0	S	0	0	4297
71863818	Not Reviewed	2019-05-01 01:00	2019-05-01 01:15	0	S	0	0	4297
71863819	Not Reviewed	2019-05-01 01:15	2019-05-01 01:30	0	S	0	0	4297
71863820	Not Reviewed	2019-05-01 01:30	2019-05-01 01:45	0	S	0	0	4297
71863821	Not Reviewed	2019-05-01 01:45	2019-05-01 02:00	0	S	0	0	4297
71863822	Not Reviewed	2019-05-01 02:00	2019-05-01 02:15	0	S	0	0	4297
71863823	Not Reviewed	2019-05-01 02:15	2019-05-01 02:30	0	S	0	0	4297
71863824	Not Reviewed	2019-05-01 02:30	2019-05-01 02:45	0	S	0	0	4297
71863825	Not Reviewed	2019-05-01 02:45	2019-05-01 03:00	0	S	0	0	4297
71863826	Not Reviewed	2019-05-01 03:00	2019-05-01 03:15	0	S	0	0	4297

MARK SELECTED AS VALID

MARK SELECTED AS UNSURE

MARK SELECTED AS INVALID

## Detector Info

**Organization** City of Portland  
**State** Oregon  
**Segment Area** Tillikum Crossing Bridge  
**Flow Detector** 1903

## Select Data Period

2019

Jan	Feb	Mar
Apr	May	Jun
Jul	Aug	Sep
Oct	Nov	Dec

No data

Not yet reviewed

Fully reviewed

Partially reviewed

Flagged-data values:

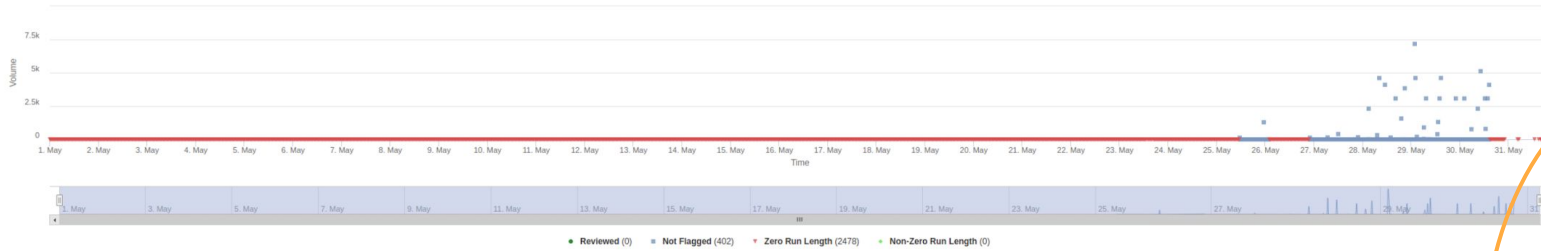
O = Okay, S = Suspicious.

P = Possibly Suspicious,

1 Select Data Set

2 Review

Flow detector (1903) data for 2019 - 05



Detector Info

**Organization** City of Portland  
**State** Oregon  
**Segment Area** Tillamook Crossing Bridge  
**Flow Detector** 1903

Select Data Period

2019

Jan	Feb	Mar
Apr	May	Jun
Jul	Aug	Sep
Oct	Nov	Dec

No data Not yet reviewed  
 Fully reviewed Partially reviewed

Flagged-data values:  
 O = Okay, S = Suspicious,  
 P = Possibly Suspicious,

#	Review Status	Start Time	End Time	Volume	Zero Length Run	Non-Zero Length Run	Rolling Median	Upload Id
71863814	Not Reviewed	2019-05-01 00:00	2019-05-01 00:15	0	S	0	0	4297
71863815	Not Reviewed	2019-05-01 00:15	2019-05-01 00:30	0	S	0	0	4297
71863816	Not Reviewed	2019-05-01 00:30	2019-05-01 00:45	0	S	0	0	4297
71863817	Not Reviewed	2019-05-01 00:45	2019-05-01 01:00	0	S	0	0	4297
71863818	Not Reviewed	2019-05-01 01:00	2019-05-01 01:15	0	S	0	0	4297
71863819	Not Reviewed	2019-05-01 01:15	2019-05-01 01:30	0	S	0	0	4297
71863820	Not Reviewed	2019-05-01 01:30	2019-05-01 01:45	0	S	0	0	4297
71863821	Not Reviewed	2019-05-01 01:45	2019-05-01 02:00	0	S	0	0	4297
71863822	Not Reviewed	2019-05-01 02:00	2019-05-01 02:15	0	S	0	0	4297
71863823	Not Reviewed	2019-05-01 02:15	2019-05-01 02:30	0	S	0	0	4297
71863824	Not Reviewed	2019-05-01 02:30	2019-05-01 02:45	0	S	0	0	4297
71863825	Not Reviewed	2019-05-01 02:45	2019-05-01 03:00	0	S	0	0	4297
71863826	Not Reviewed	2019-05-01 03:00	2019-05-01 03:15	0	S	0	0	4297

MARK SELECTED AS VALID MARK SELECTED AS UNSURE MARK SELECTED AS INVALID

# BikePed Portal: Additional features & upcoming projects

## User restricted site:

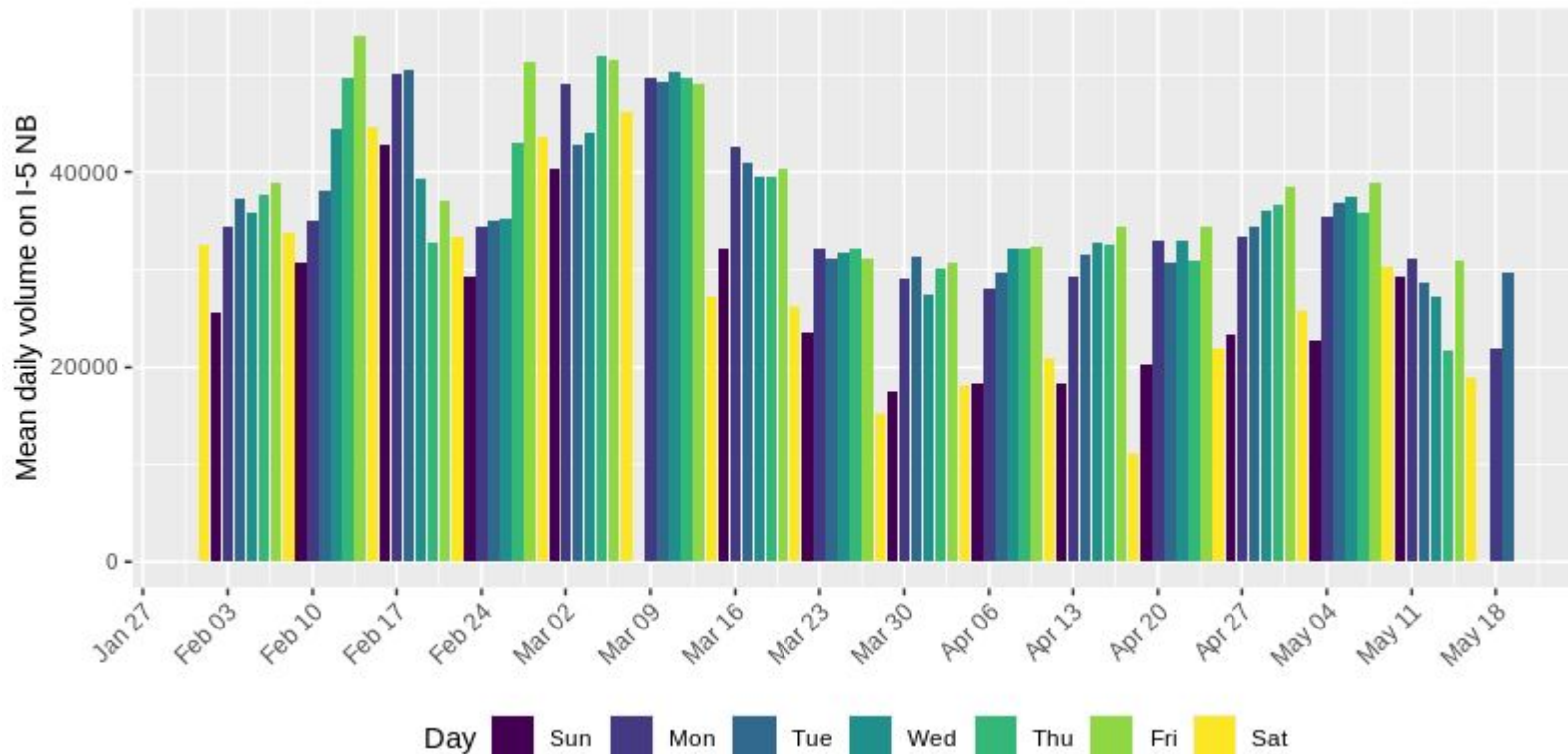
- Organization owner versus organization user.
- Shared permissions with multiple organizations.
- Download raw data.
- Organization specific dashboard.
- Export data in TMAS format.
- AADNMT

# Transportation trends since the detection of COVID-19 in Oregon

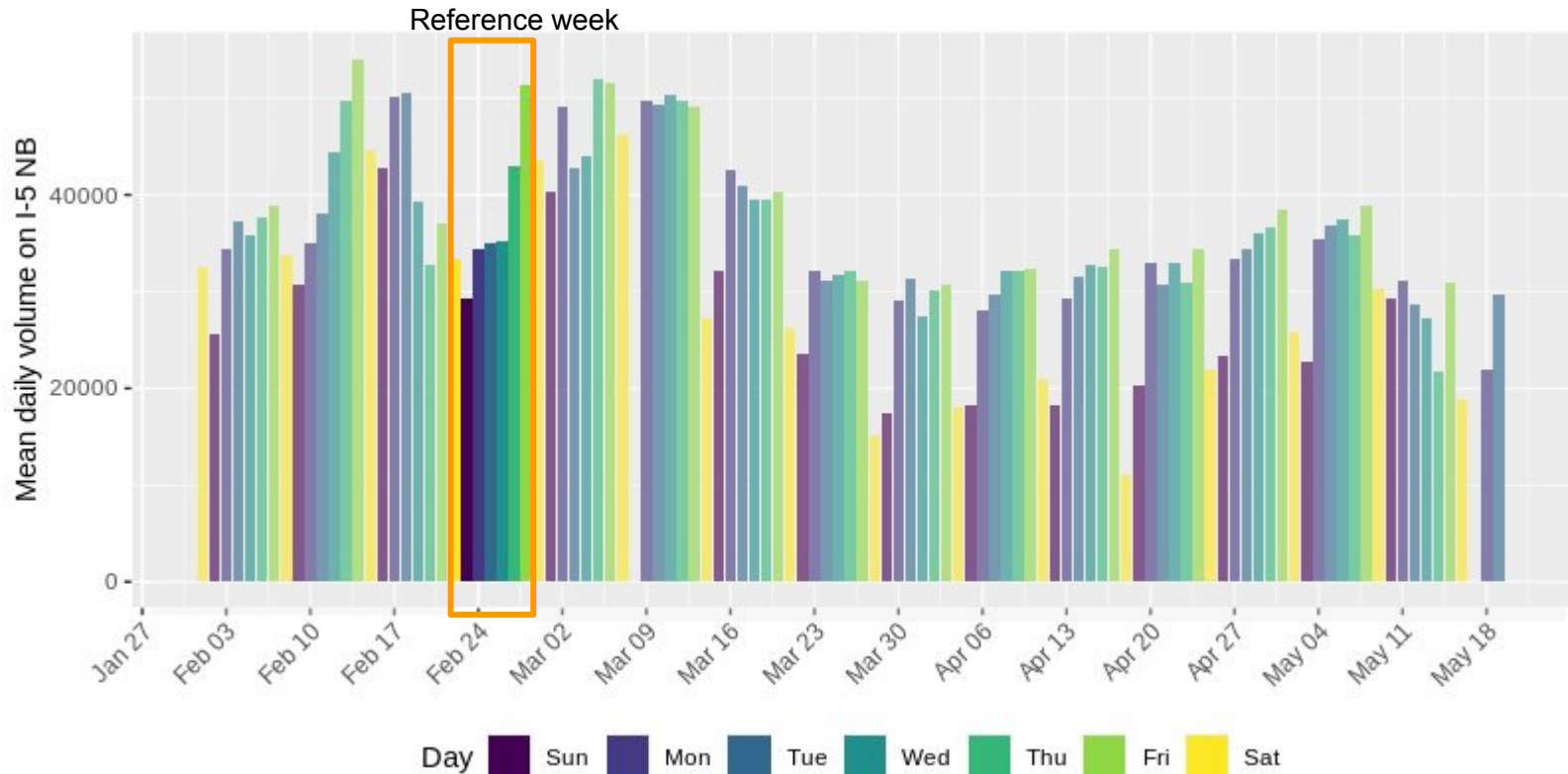
A few dates to keep in mind:

- Feb 28: First positive case of COVID-19
- Mar 12: Close of all K-12 schools, moratorium on gatherings >250 people
- Mar 15: Temporary shutdown of bars, restaurants, and entertainment facilities
- Mar 16: Moratorium on gatherings >25 people
- Mar 23: “Stay-at-home”, beginning of state park closures

# Mean daily volume along I-5 NB



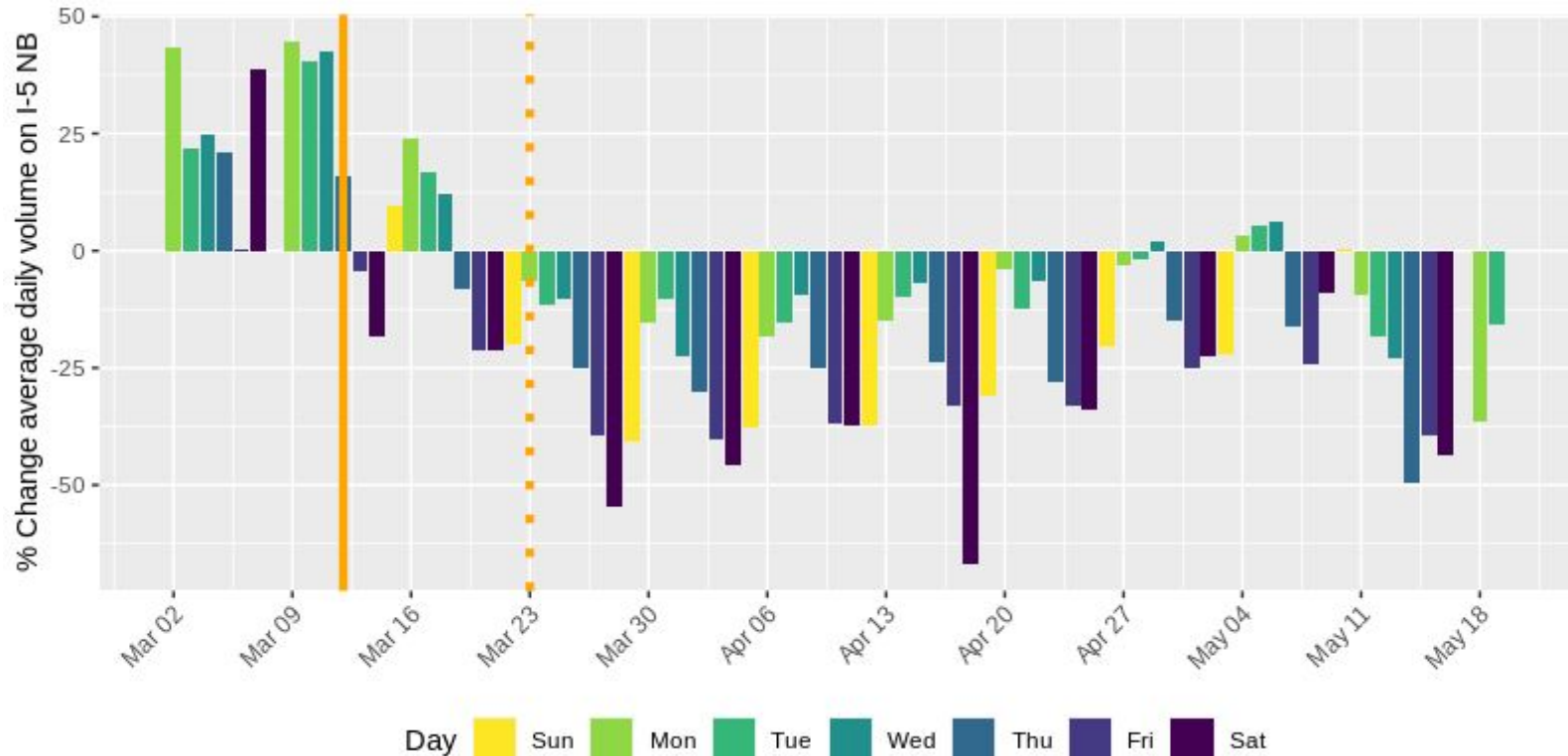
# Mean daily volume along I-5 NB



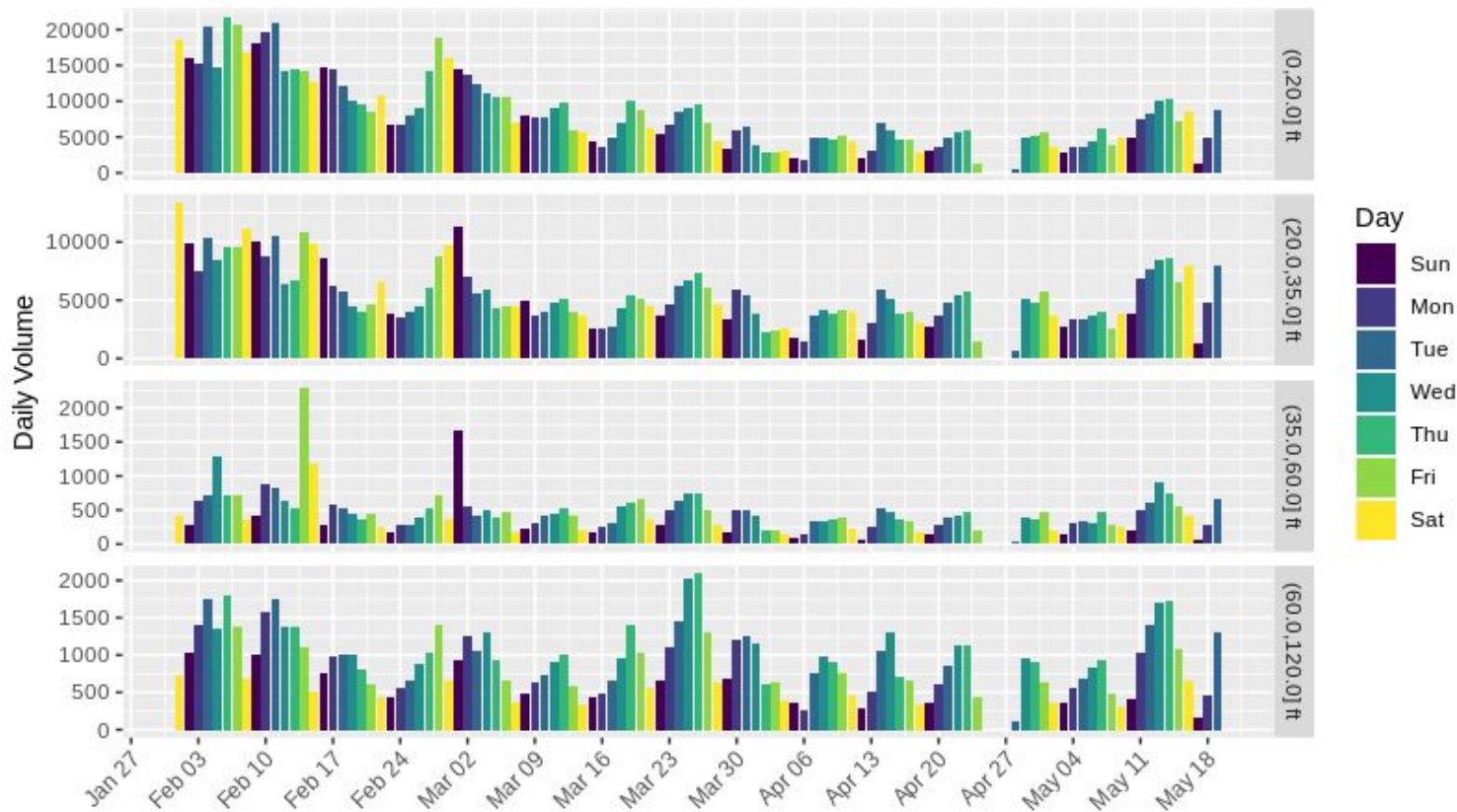


# % Change average daily volume along I-5 NB

(reference week: Feb 22)

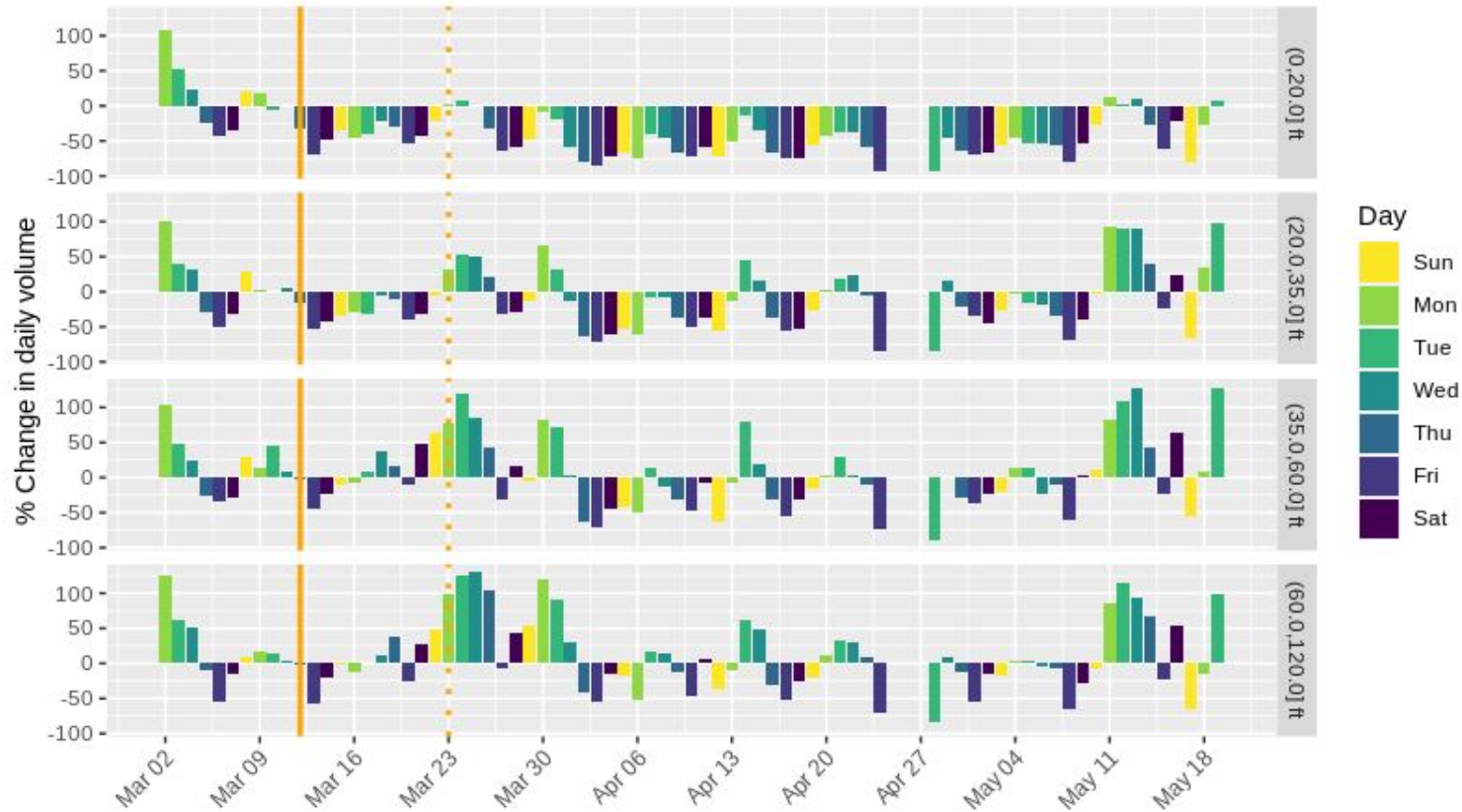


# Vehicle length daily volume: Marine Dr/99E to I-5 NB

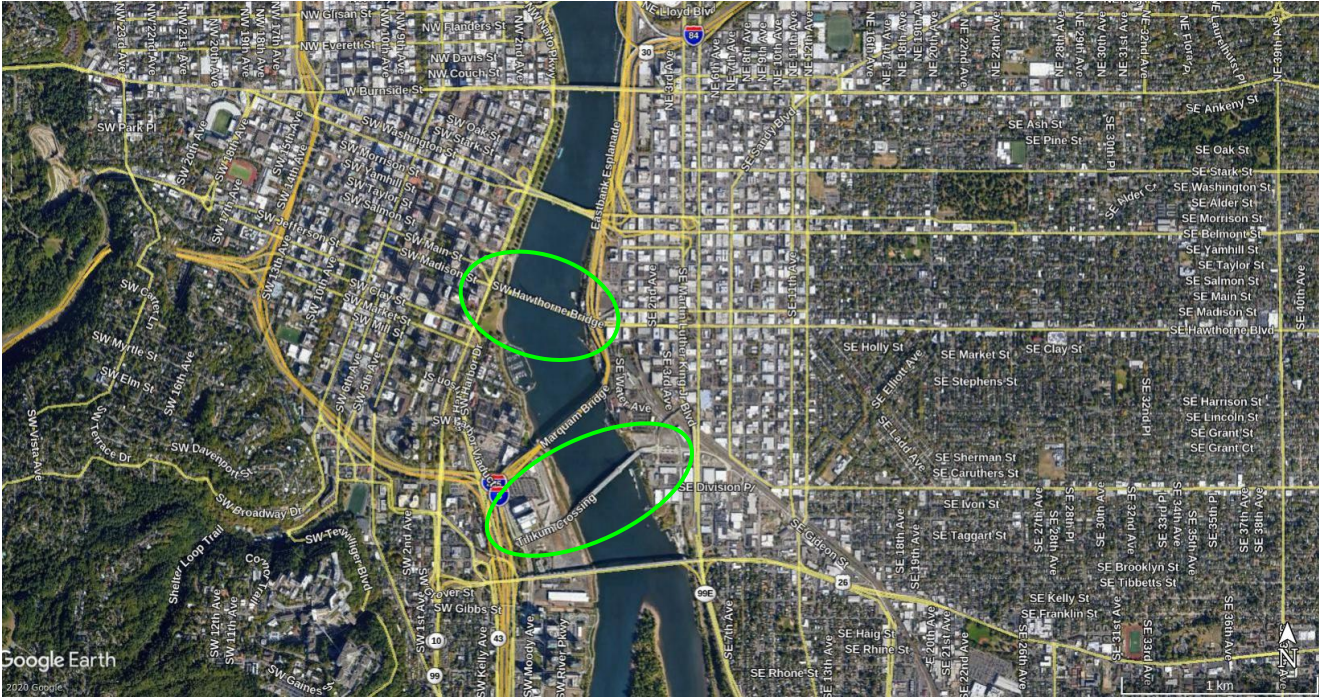


# % change daily volume: Marine Dr/99E to I-5 NB

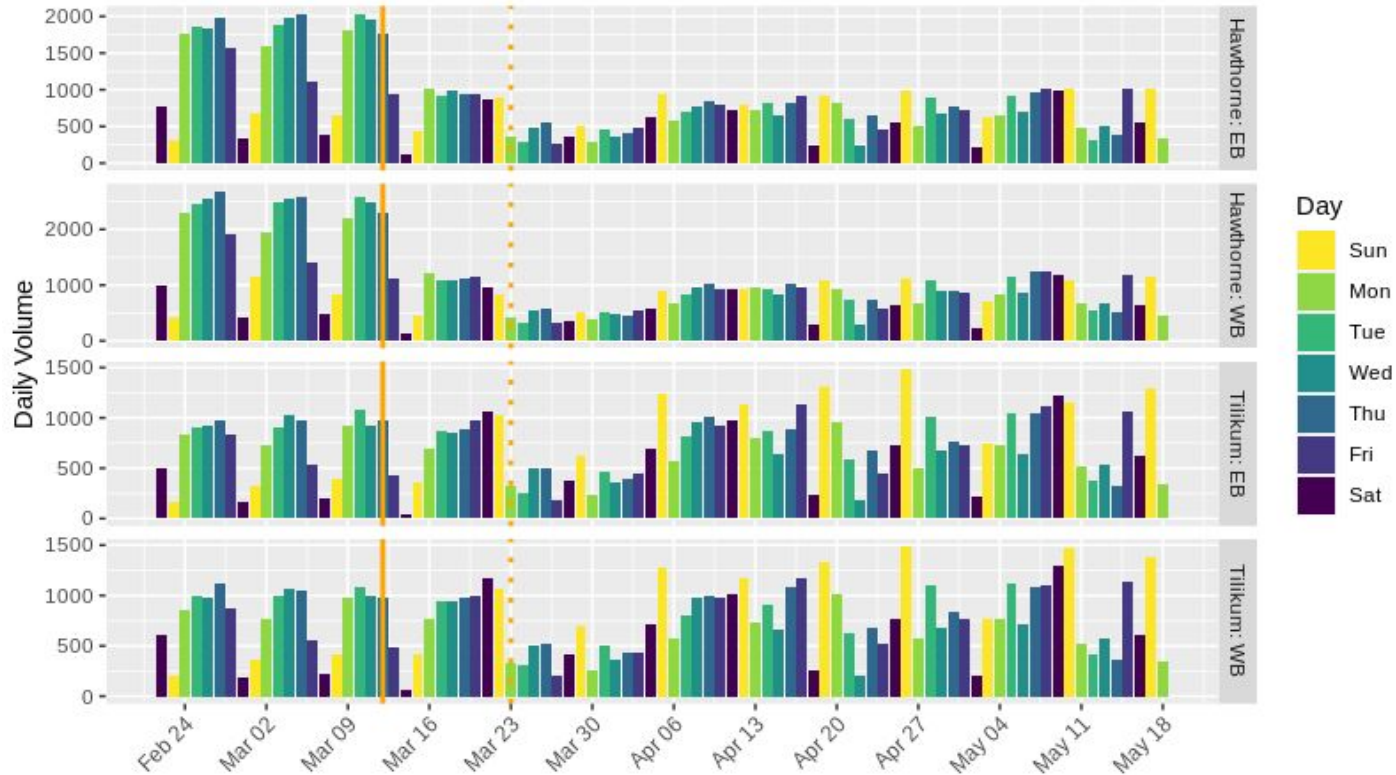
(reference week: Feb 22)



# Daily bicycle volume: Hawthorne and Tilikum

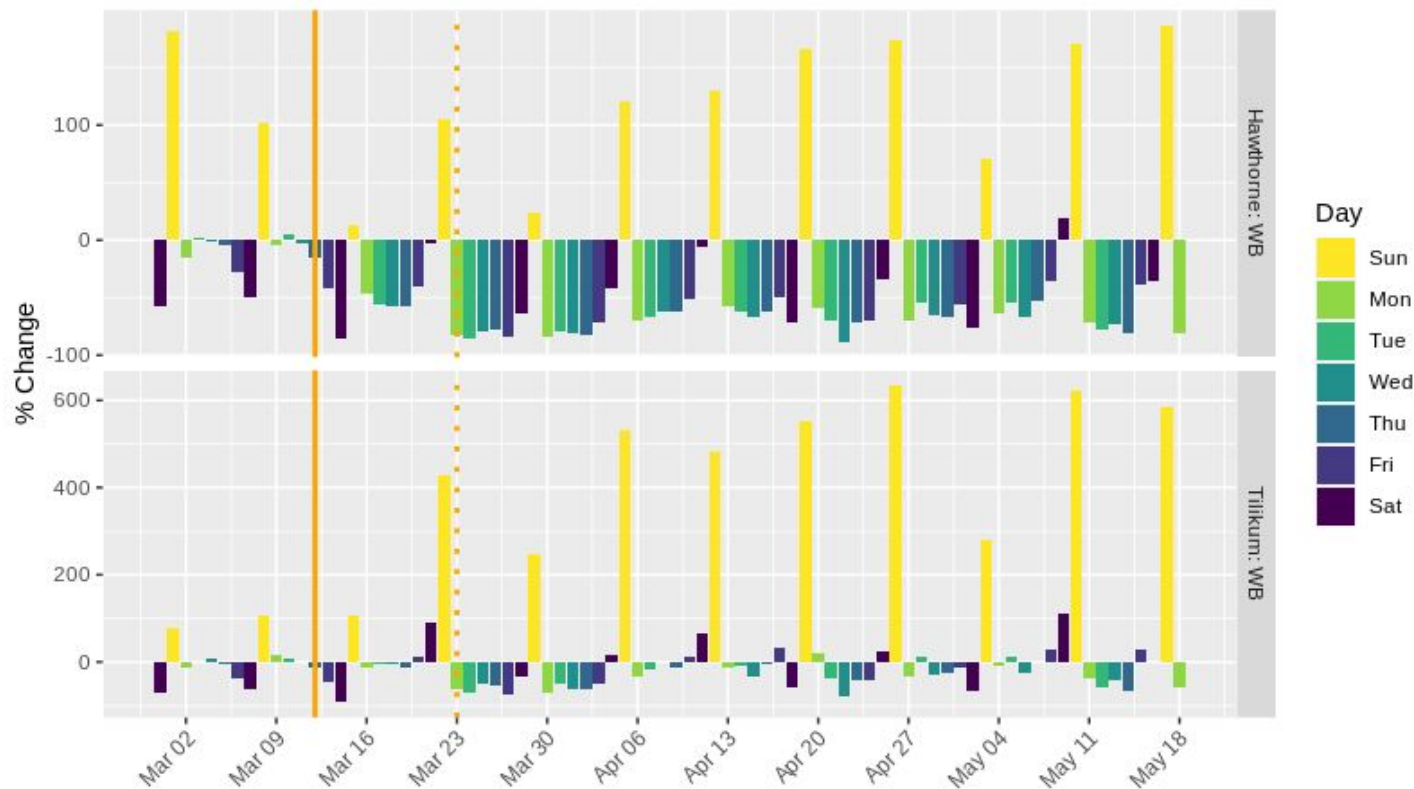


# Daily bicycle volume: Hawthorne and Tilikum



# % change daily volume: Hawthorne & Tilikum (WB)

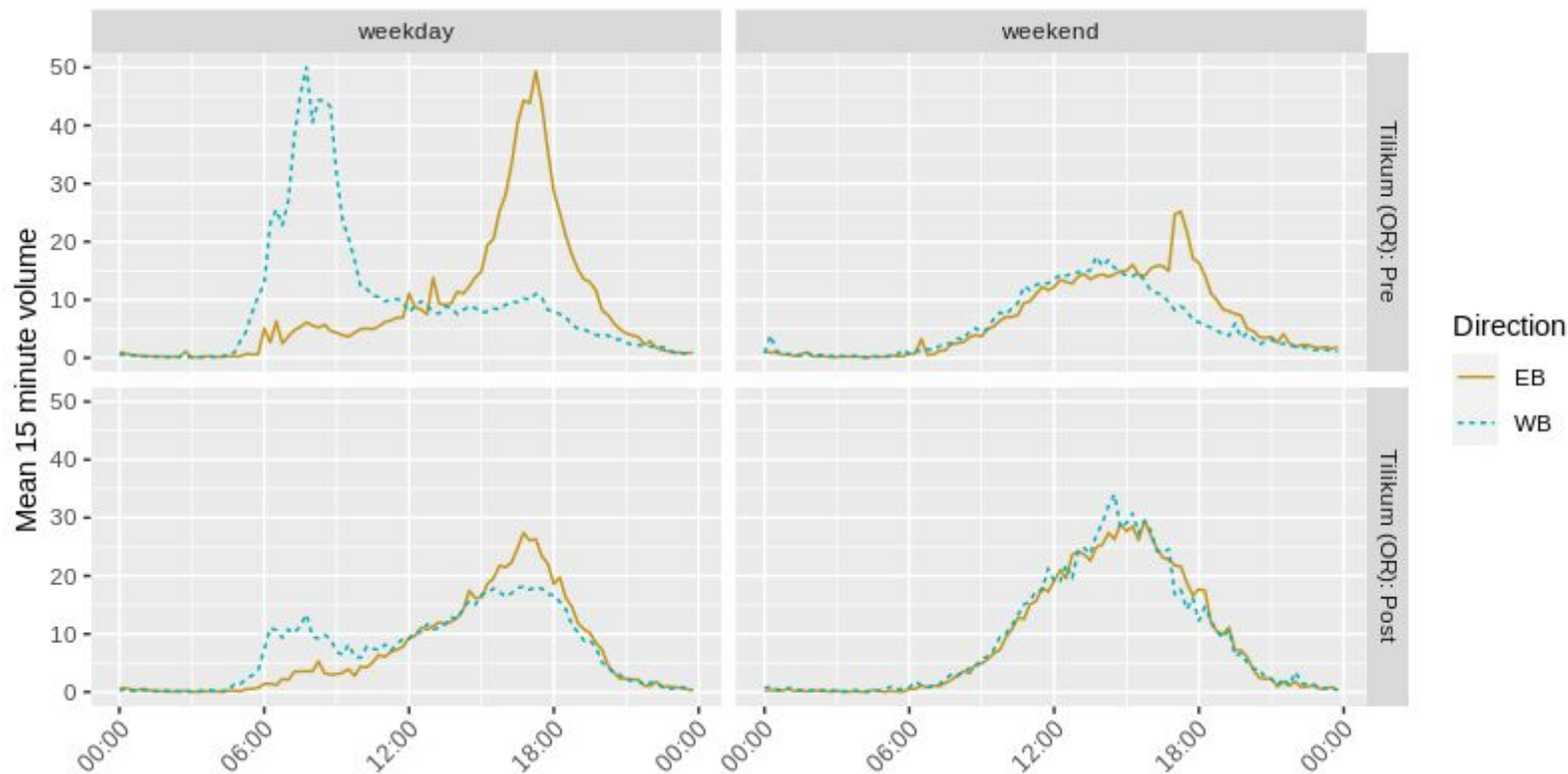
(reference week: Feb 22)



# Weekday v. weekend: Tilikum Pre & Post

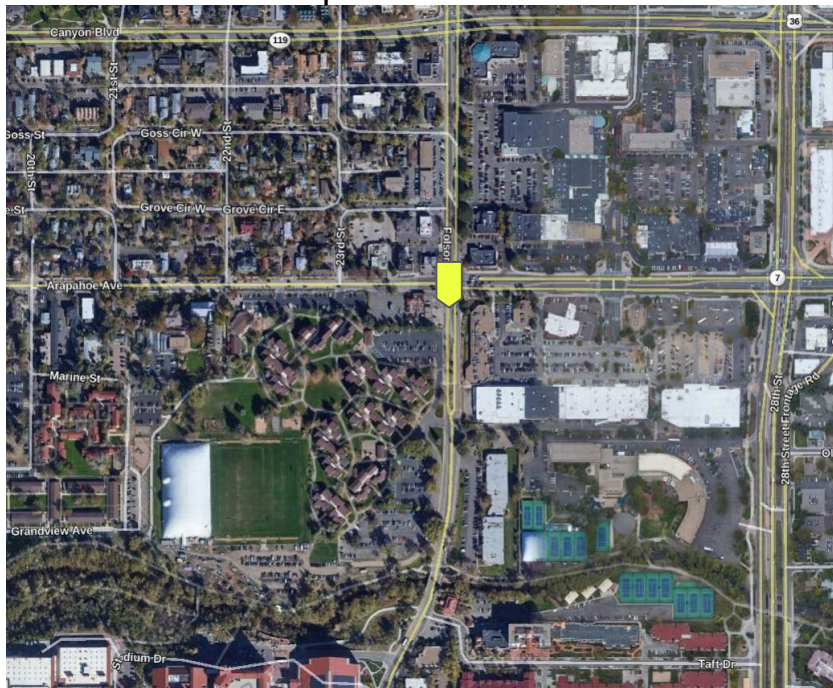
Pre: 2019-01-01 through 2020-03-11

Post: 2020-03-12 through 2020-05-18

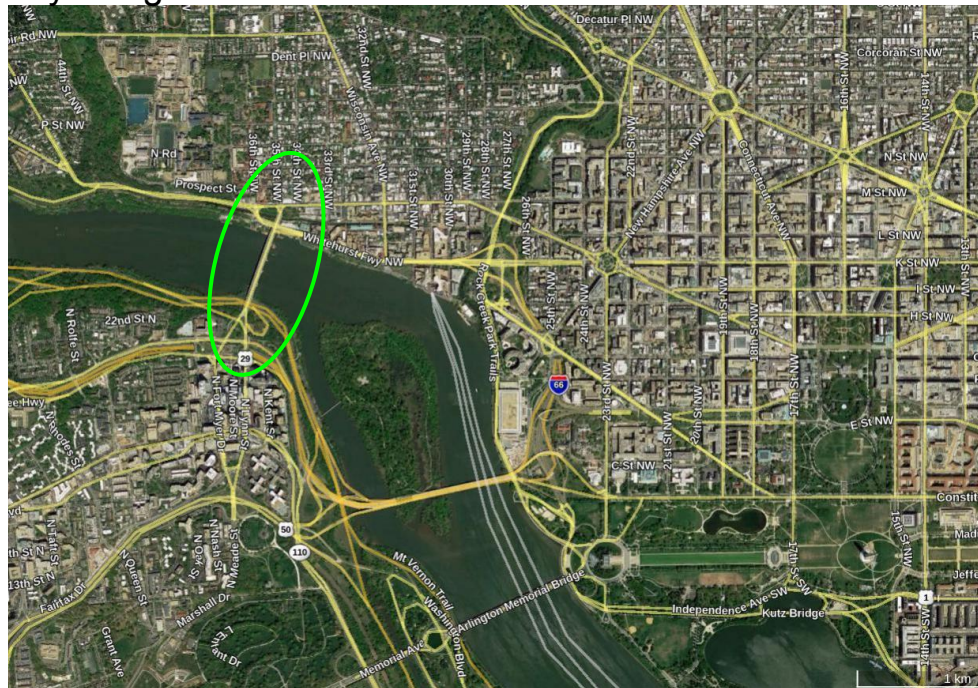


# Folsom St S of Arapahoe Ave (CO) & Key Bridge (VA)

## Folsom St S of Arapahoe Ave



## Key Bridge



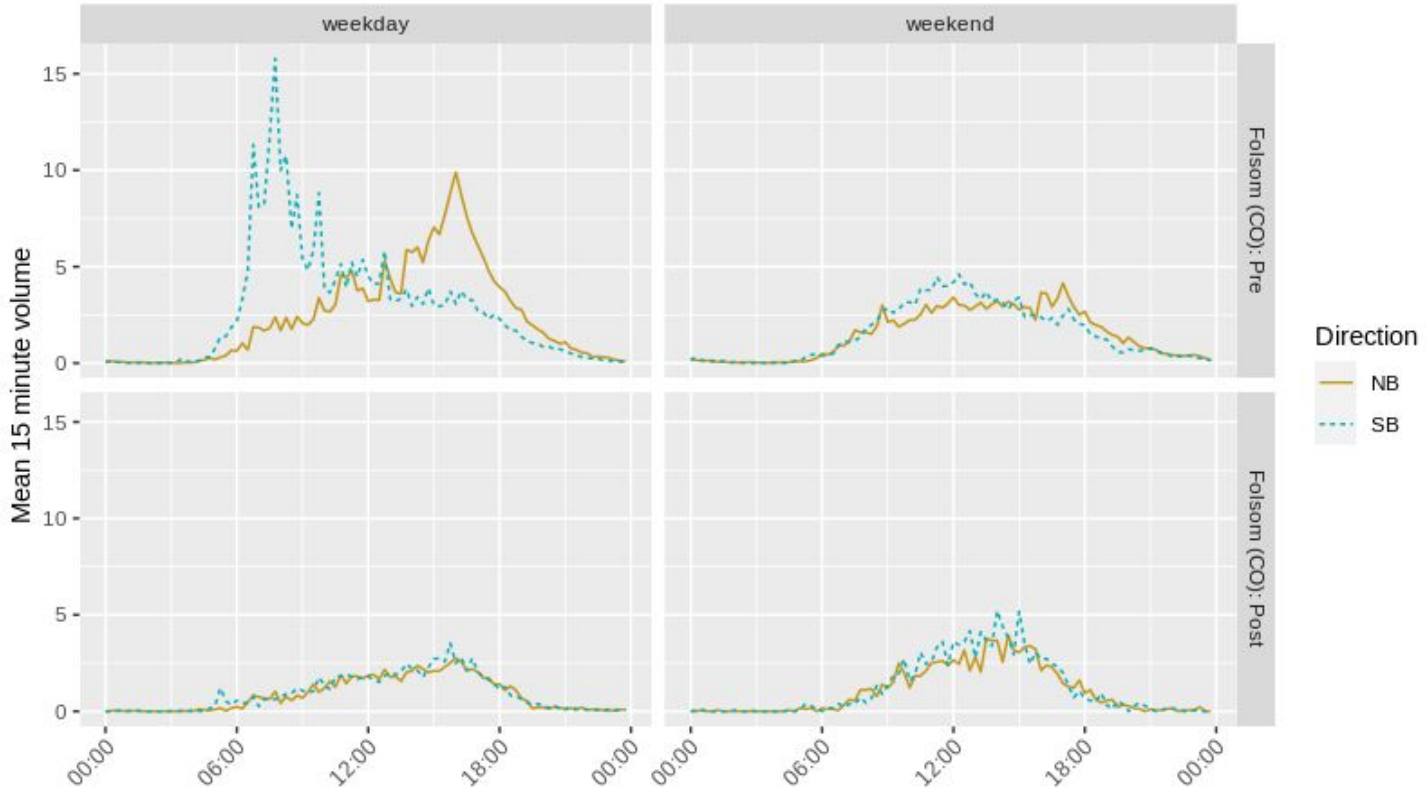


# Weekday v. weekend: Folsom St S of Arapahoe Ave

Pre: 2019-01-01 through 2020-03-18

Post: 2020-03-19 through 2020-05-18

## Pre & Post



# Weekday v. weekend: Key Bridge Pre & Post

Pre: 2019-01-01 through 2020-03-22

Post: 2020-03-23 through 2020-05-18

The figure consists of four line charts arranged in a 2x2 grid. The top row is labeled 'Pre' and the bottom row is labeled 'Post'. The left column is labeled 'weekday' and the right column is labeled 'weekend'. The y-axis for all charts is 'Mean 15 minute volume' ranging from 0 to 30. The x-axis for all charts shows time from 00:00 to 00:00 in 6-hour increments (06:00, 12:00, 18:00). A legend on the right indicates that a solid blue line represents Northbound (NB) traffic and a dashed red line represents Southbound (SB) traffic.

- Pre Weekday:** Shows two distinct peaks. The first peak occurs around 06:00, with NB volume reaching approximately 24 and SB volume reaching approximately 13. The second peak occurs around 15:00, with NB volume reaching approximately 17 and SB volume reaching approximately 15.
- Pre Weekend:** Shows a broad, low-intensity peak starting around 06:00 and peaking around 12:00, with NB volume reaching approximately 10 and SB volume reaching approximately 9.
- Post Weekday:** Shows a single peak around 15:00, with NB volume reaching approximately 13 and SB volume reaching approximately 14.
- Post Weekend:** Shows a single sharp peak around 12:00, with NB volume reaching approximately 29 and SB volume reaching approximately 26.

PORTAL 

# PORTAL Questions?

- PORTAL: [portal.its.pdx.edu](http://portal.its.pdx.edu)
- Contact info: [askportal@pdx.edu](mailto:askportal@pdx.edu)
- PORTAL Documentation site: [adus.github.io/portal-documentation/](https://adus.github.io/portal-documentation/)
- TREC: [trec.pdx.edu](http://trec.pdx.edu)