

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



Metro

C-TRAN



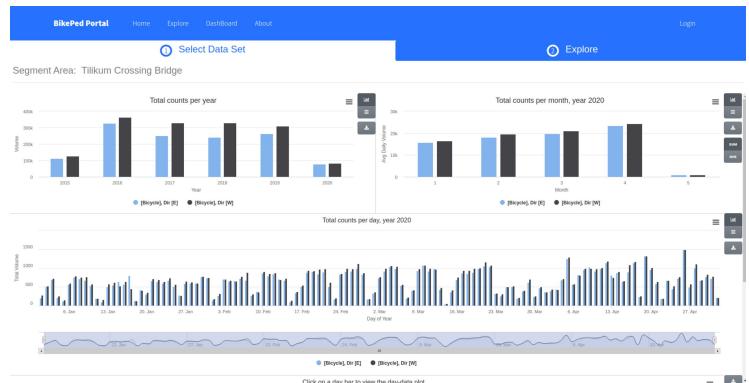
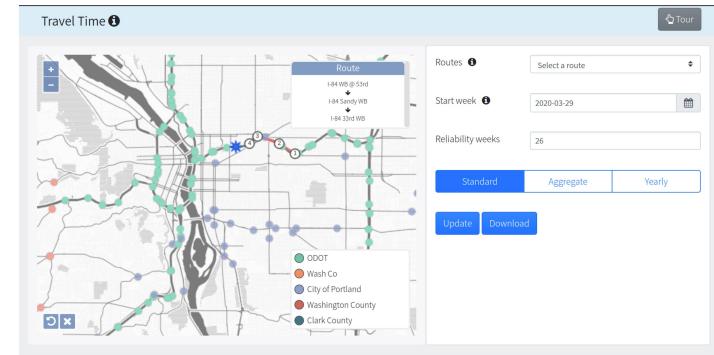
The Portals: A MultiModal (Transportation Data) Archive

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



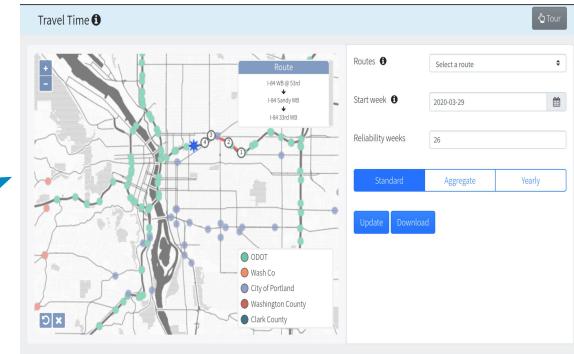
PORTAL Architecture

Publicly-available - policy of open data

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

Focus on open-source software

>10TB PostgreSQL database



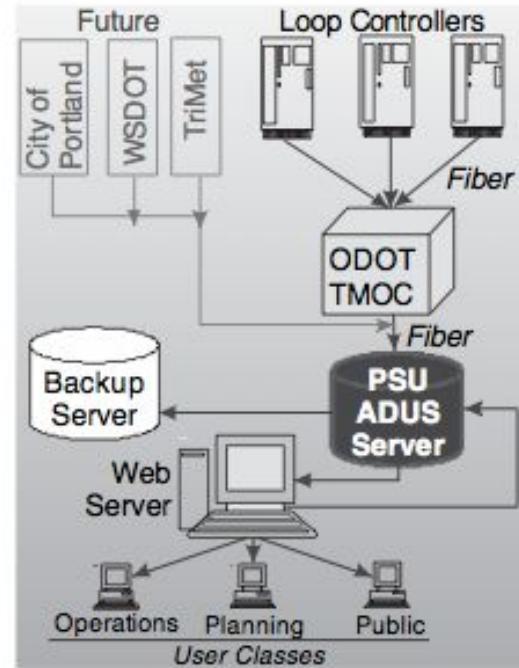
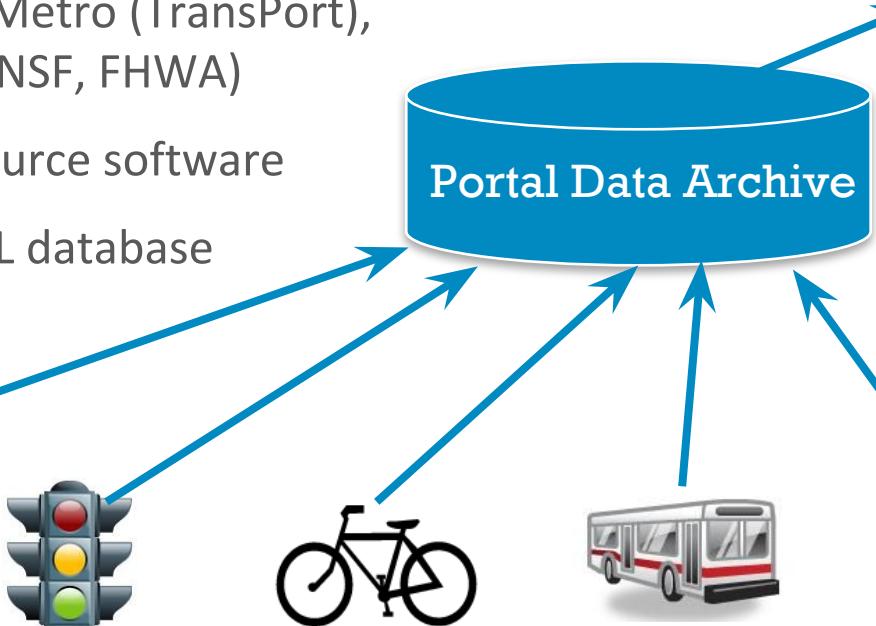
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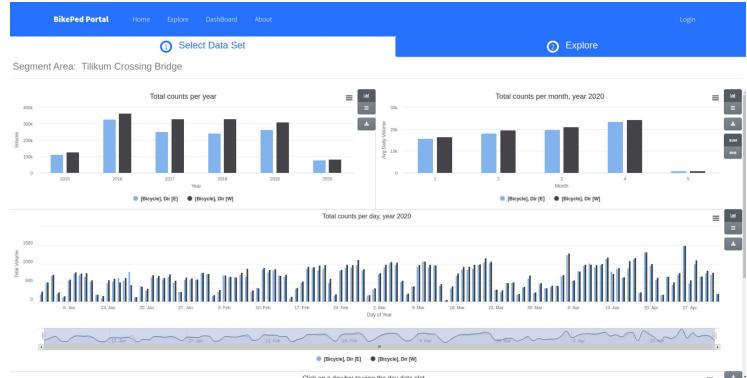
>10TB PostgreSQL database



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

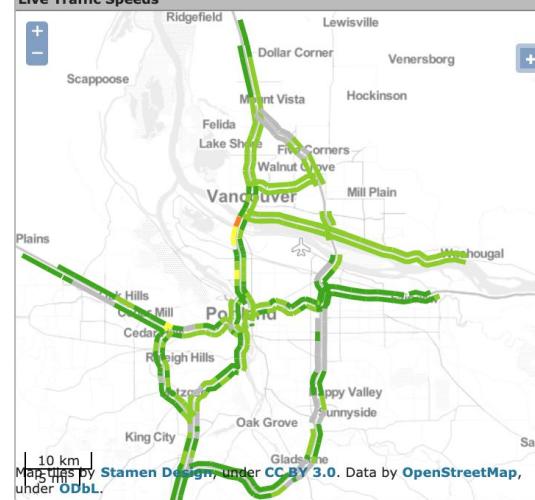
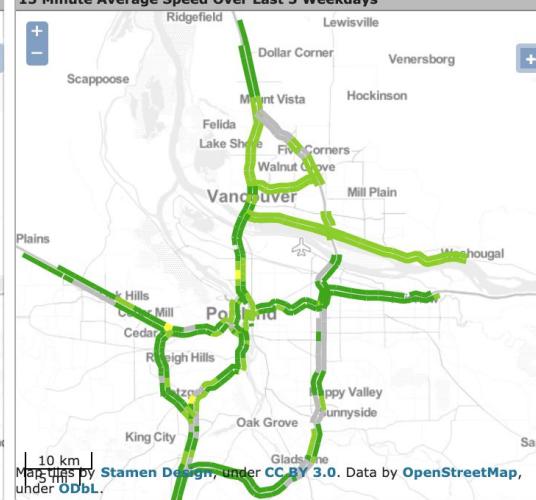


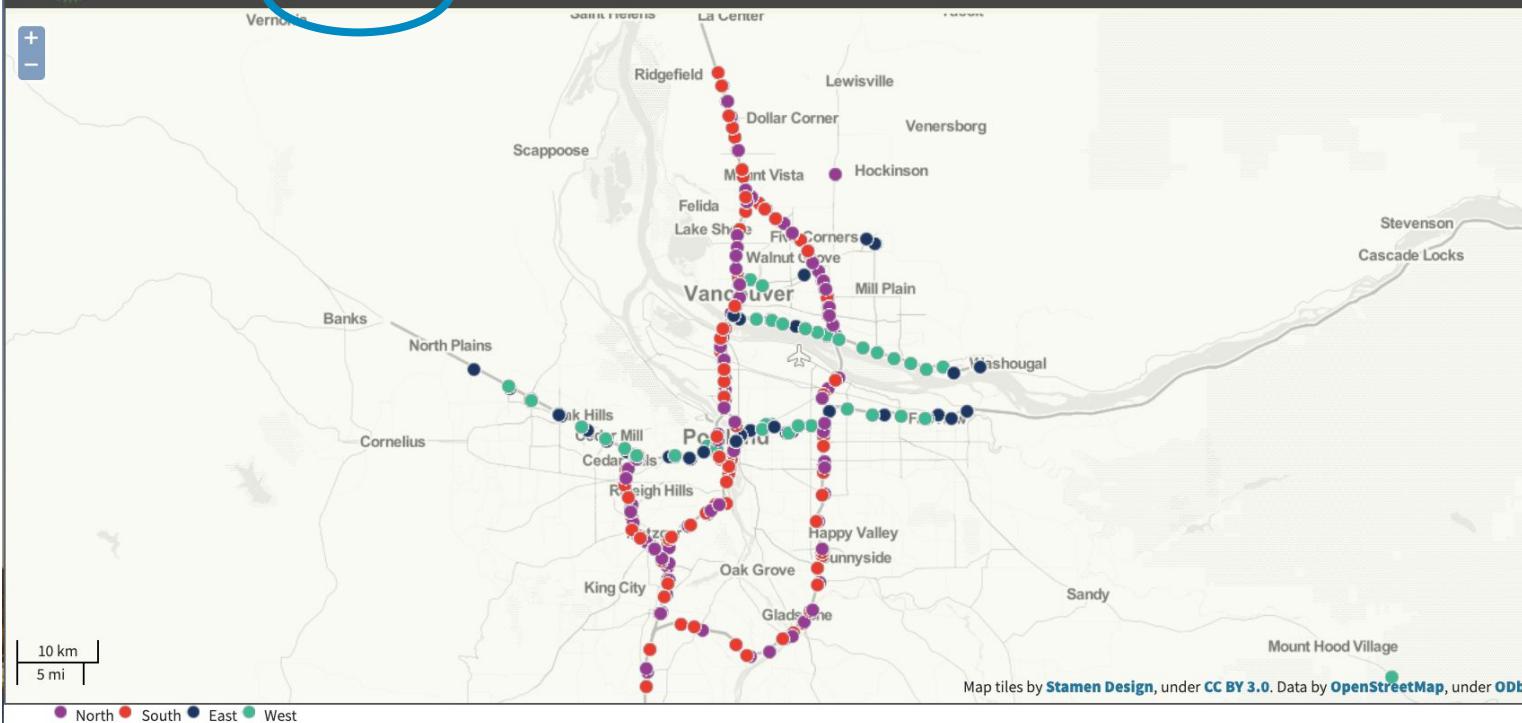
PORTAL**PORTAL is the official transportation data archive for the Portland-Vancouver Metropolitan region.**

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**

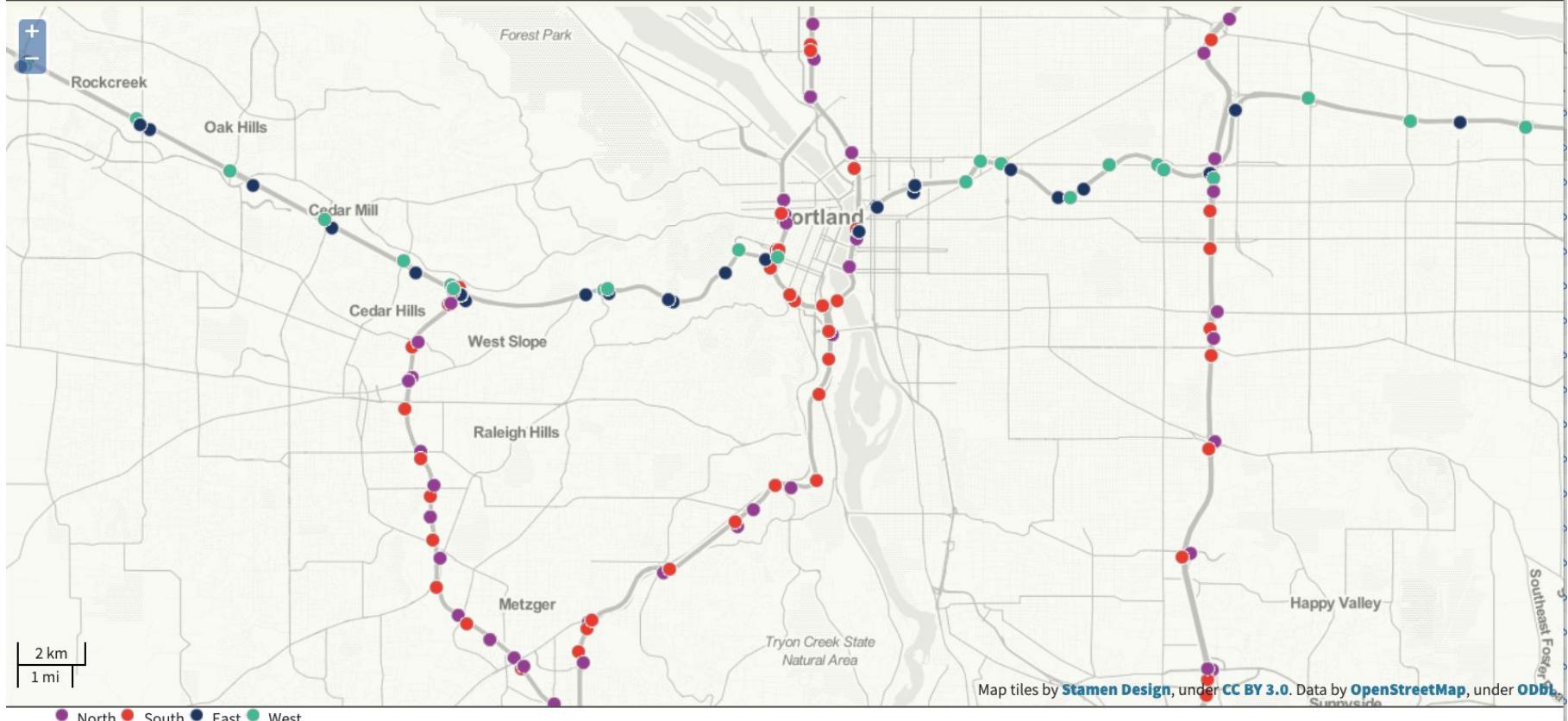


North ● South ● East ● West



[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.



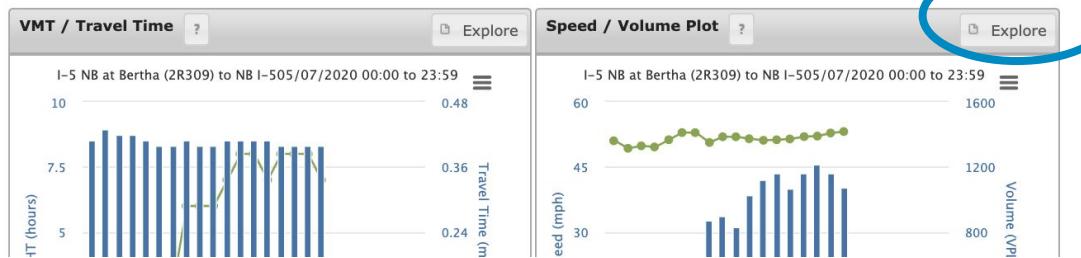
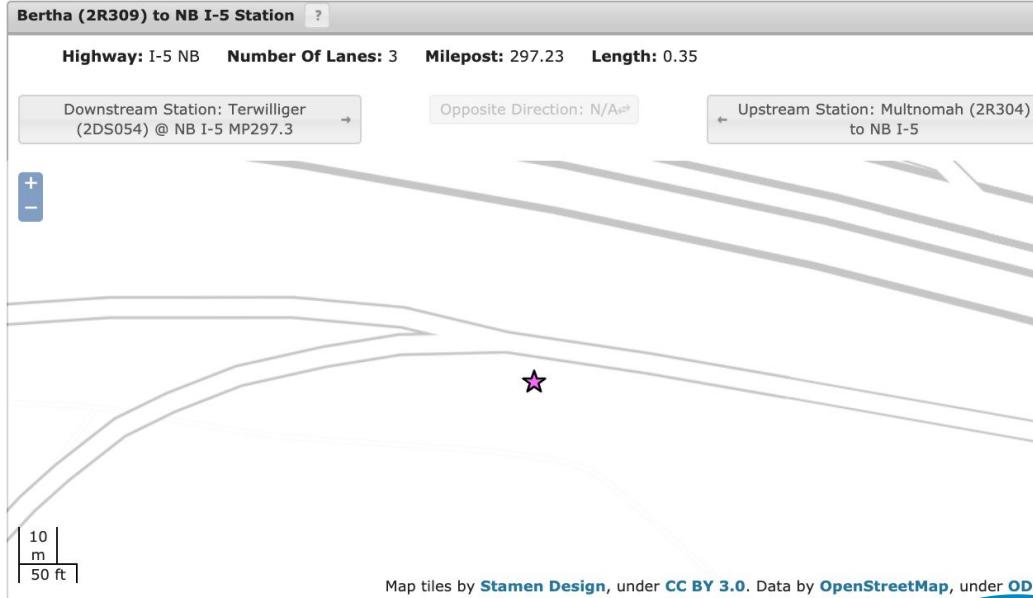
● North ● South ● East ● West

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



● North ● South ● East ● West

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

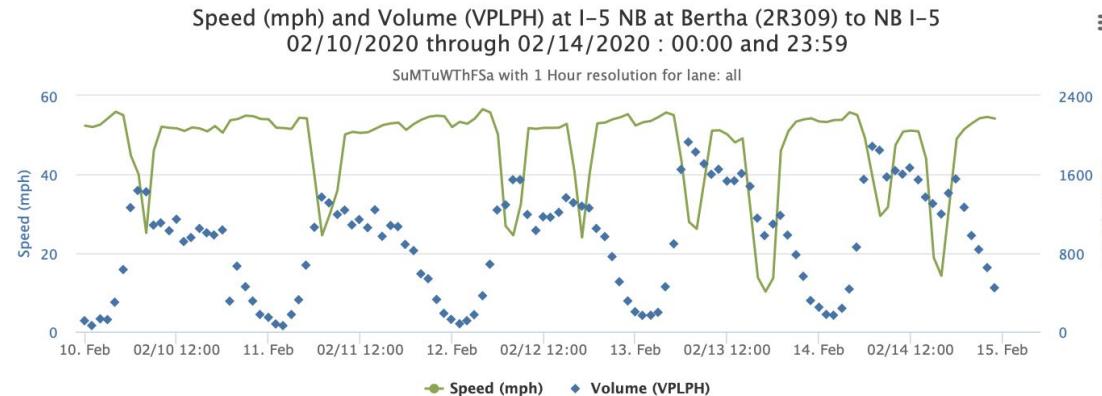


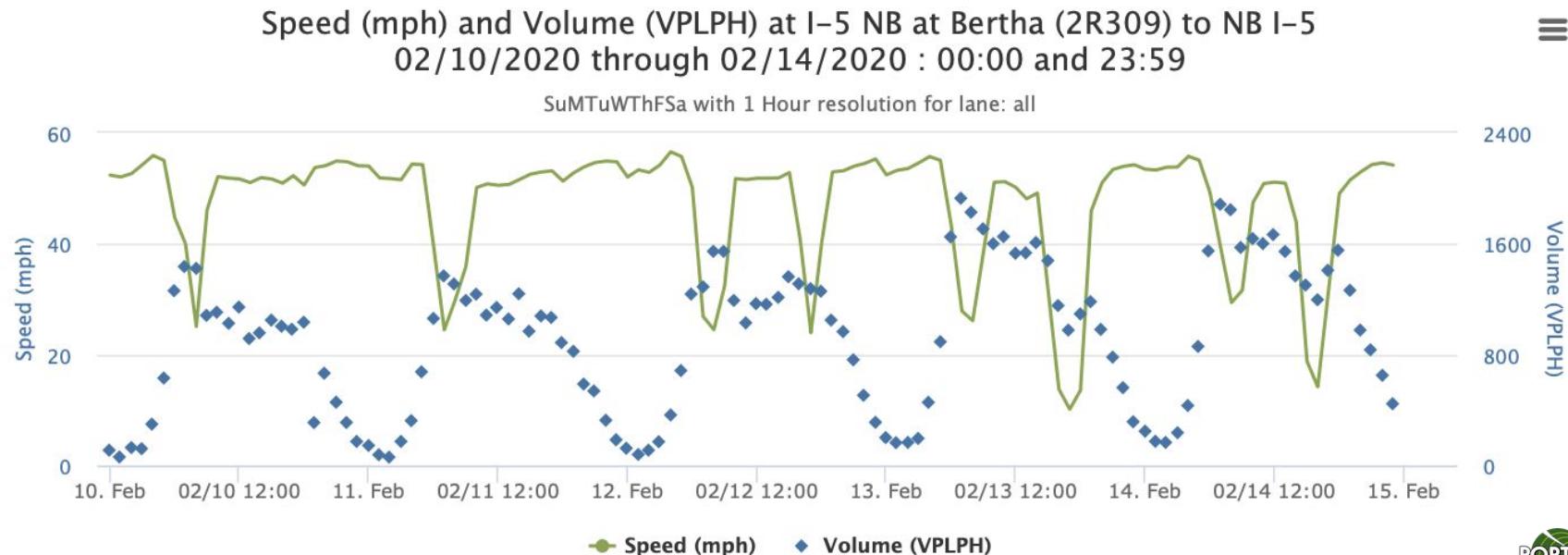
Portland-Vancouver Stations Page --> Bertha (2R309) to NB I-5 --> Two Quantity Chart

Station Select: [?](#)[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 [?](#)Start: 2/10/2020 [\[calender\]](#)End: 2/14/2020 [\[calender\]](#)[Sun](#) [Mon](#) [Tue](#) [Wed](#) [Thu](#) [Fri](#) [Sat](#)Time Range [?](#)Start: 00:00 [\[calender\]](#)End: 23:59 [\[calender\]](#)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 [\[refresh\]](#)Opposite Direction: N/A [\[refresh\]](#)Upstream Station: Multnomah
(2R304) to NB I-5 [\[refresh\]](#)

Date Range [?](#)Start: 2/10/2020 [▼](#)
End: 2/14/2020 [▼](#)**Time Range** [?](#)Start: 00:00 [▼](#)
End: 23:59 [▼](#)**Quantities** [?](#)1st: Speed [▼](#)
2nd: Volume (VPLPH) [▼](#)**Configuration** [?](#)Resolution: 1hr [▼](#)
Group: No [▼](#)**Select Lane:** [?](#)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 [←](#)

Date Range

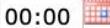
Start: 2/10/2020



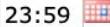
End: 2/14/2020

**Sun** **Mon** **Tue** **Wed** **Thu** **Fri** **Sat****Time Range**

Start: 00:00



End: 23:59

**Quantities**

1st: Speed

Configuration

Resolution: 1hr

2nd: Volume (VPLPH)



Group: No

Select Lane:

Lane: all

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

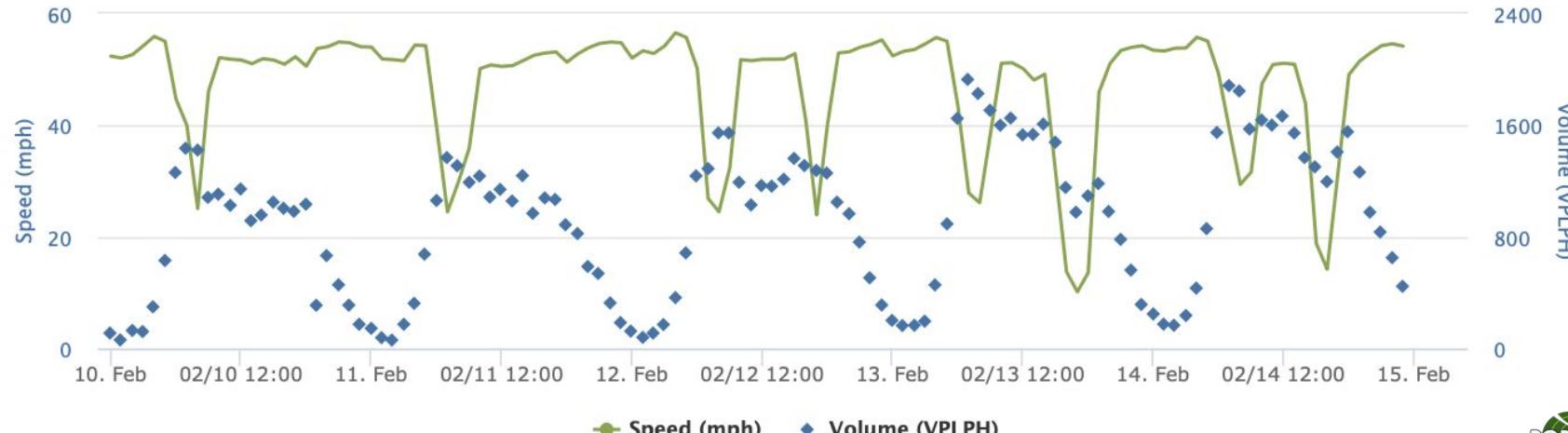
Opposite Direction: N/A

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

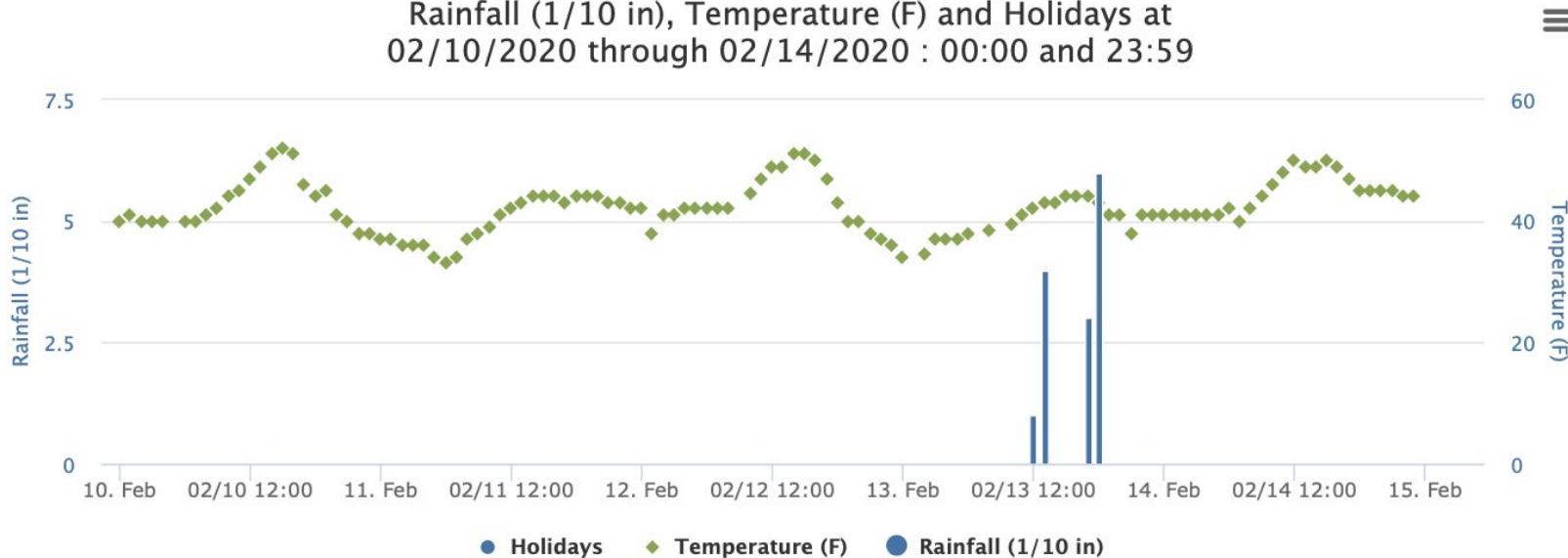
Speed (mph) and Volume (VPLPH) at I-5 NB at Bertha (2R309) to NB I-5 02/10/2020 through 02/14/2020 : 00:00 and 23:59



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 RangeStart: 2/10/2020
End: 2/14/2020**Time Range**Start: 00:00
End: 23:59**Quantities**1st: Speed
2nd: Volume (VPLPH)**Select....****Configuration**Resolution: 15min
Group: No**Select Lane:**

Lane: all

Sun Mon Tue Wed Thu Fri Sat

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

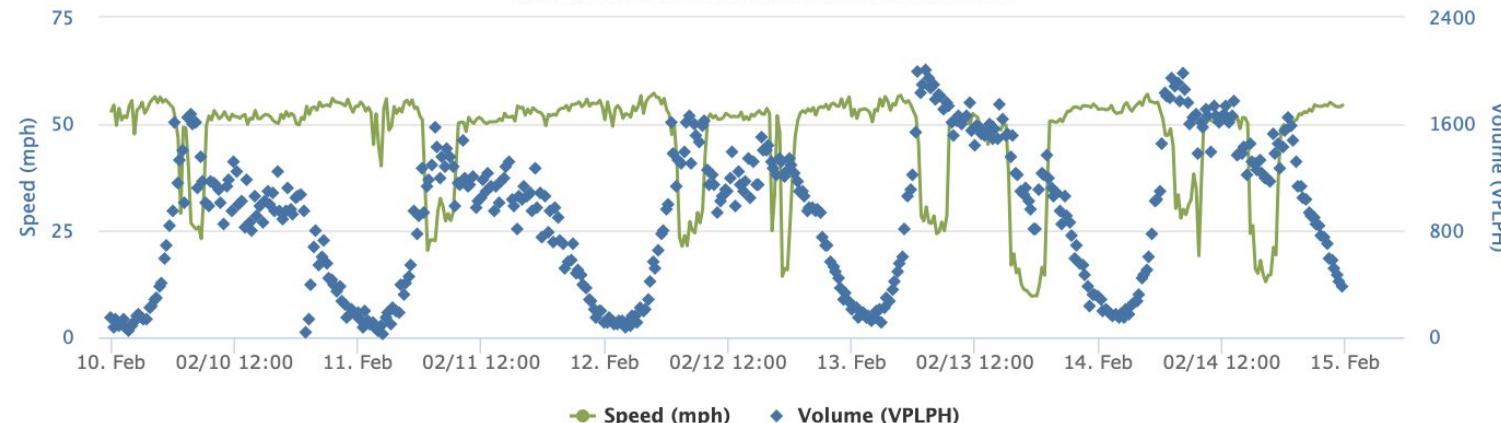
Opposite Direction: N/A

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 RangeStart: 2/10/2020
End: 2/14/2020**Time Range**Start: 00:00
End: 23:59**Quantities**1st: Speed
2nd: Volume (VPLPH)**Select....****Configuration**Resolution: 15min
Group: No**Select Lane:**

Lane: all

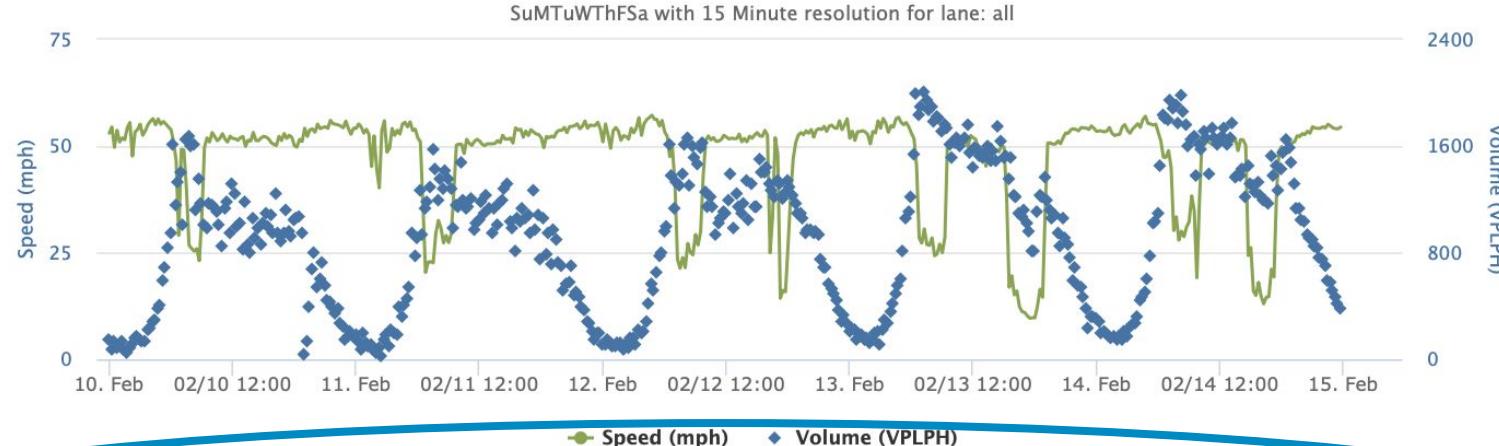
Sun Mon Tue Wed Thu Fri Sat

Update ChartsDownstream 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

**Download Data****Download All Data****Download Stations Metadata****Download Detectors Metadata****Download Weather Data**

Date Range**Start:**

2/10/2020

**End:**

2/14/2020

**Time Range****Start:**

00:00

**End:**

23:59

**Quantities****1st:** Speed**Configuration****Resolution:** 15min**2nd:** Volume (VPLPH)**Group:** Yes**Select Lane:****Lane:**

all

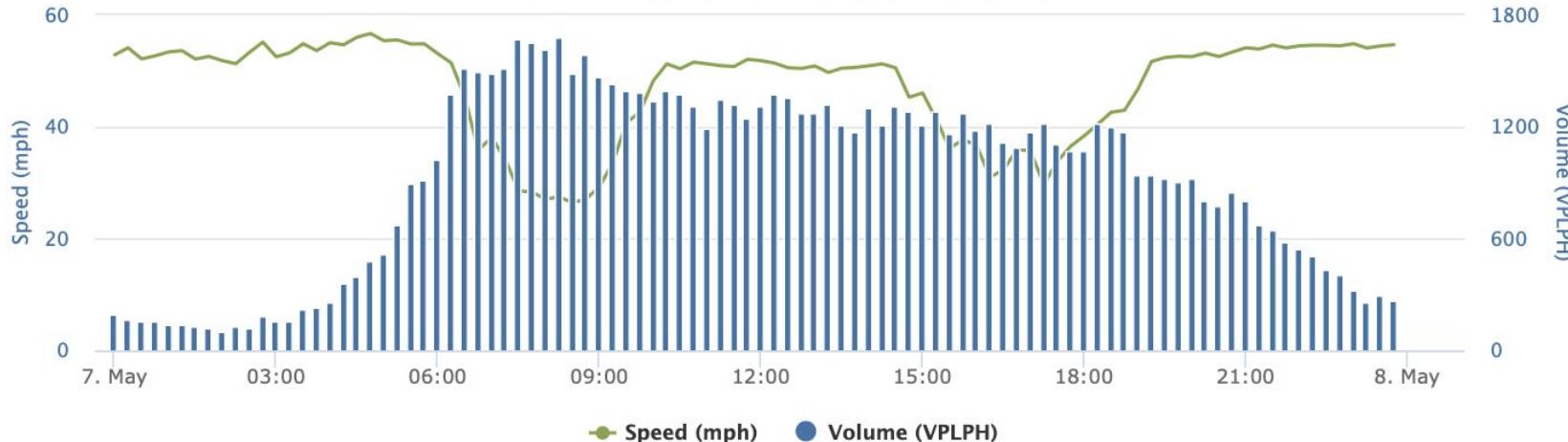
**Sun** **Mon** **Tue** **Wed** **Thu** **Fri** **Sat****Update Charts**Downstream Station: Terwilliger
(2DS054) @ NB I-5 MP297.3

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 02/10/2020 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

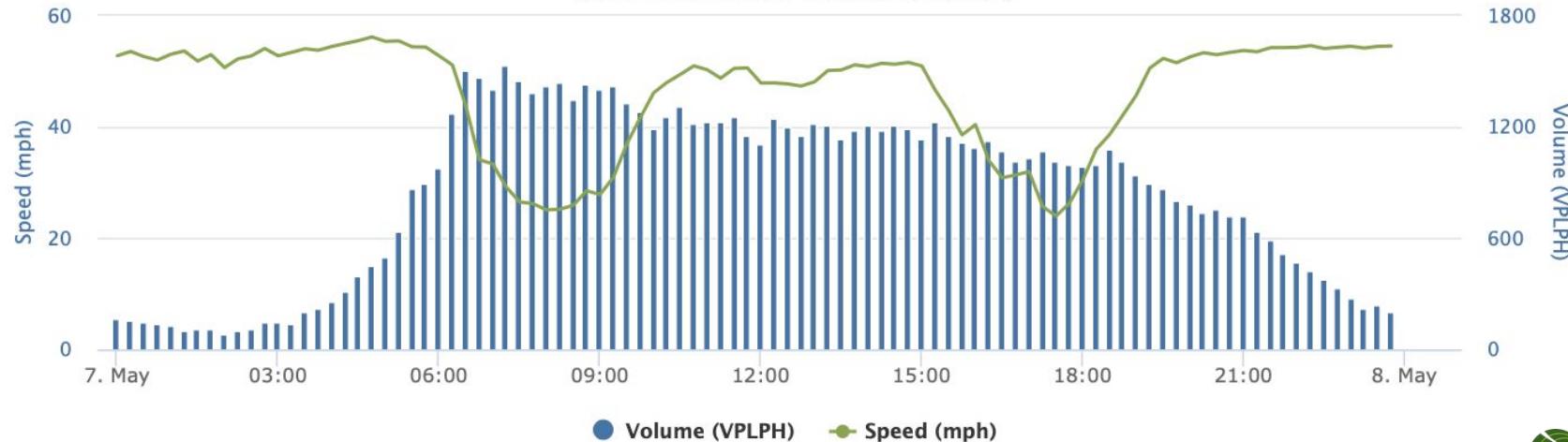
Sun Mon Tue Wed Thu Fri Sat**Update Charts**Downstream Station: Terwilliger
(2DS054) @ NB I-5 MP297.3

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 **Start:** 04/27/2020
End: 05/01/2020 **Time Range** **Start:** 00:00
End: 23:59 **Quantities** **1st:** Speed
2nd: Volume (VPLPH) **Configuration** **Resolution:** 15min
Group: No **Select Lane:**

Lane: all

Sun Mon Tue Wed Thu Fri Sat

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

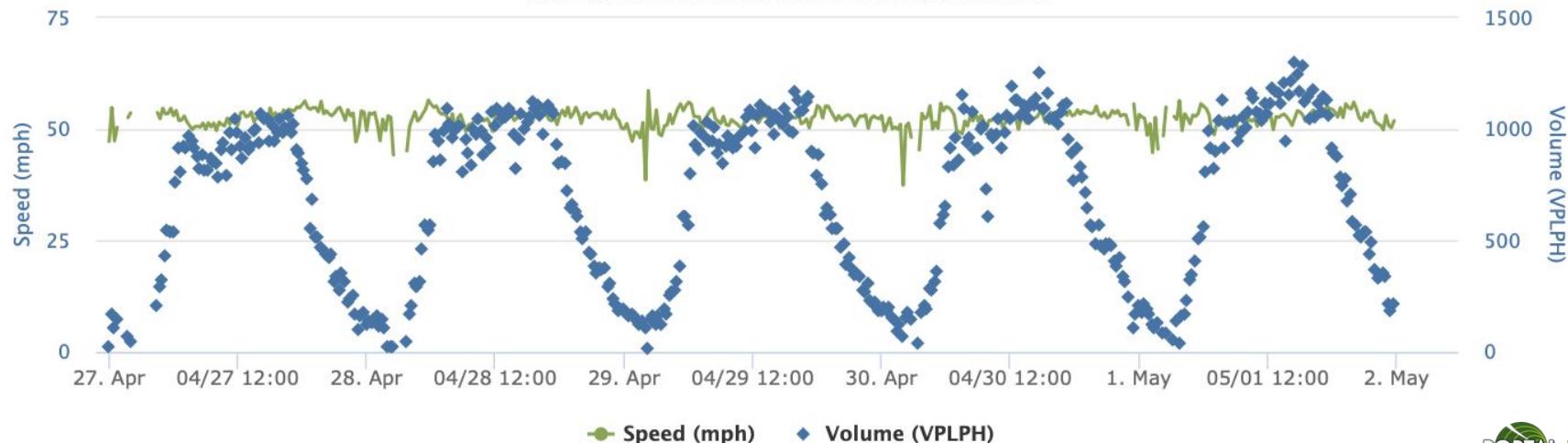
Opposite Direction: N/A

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

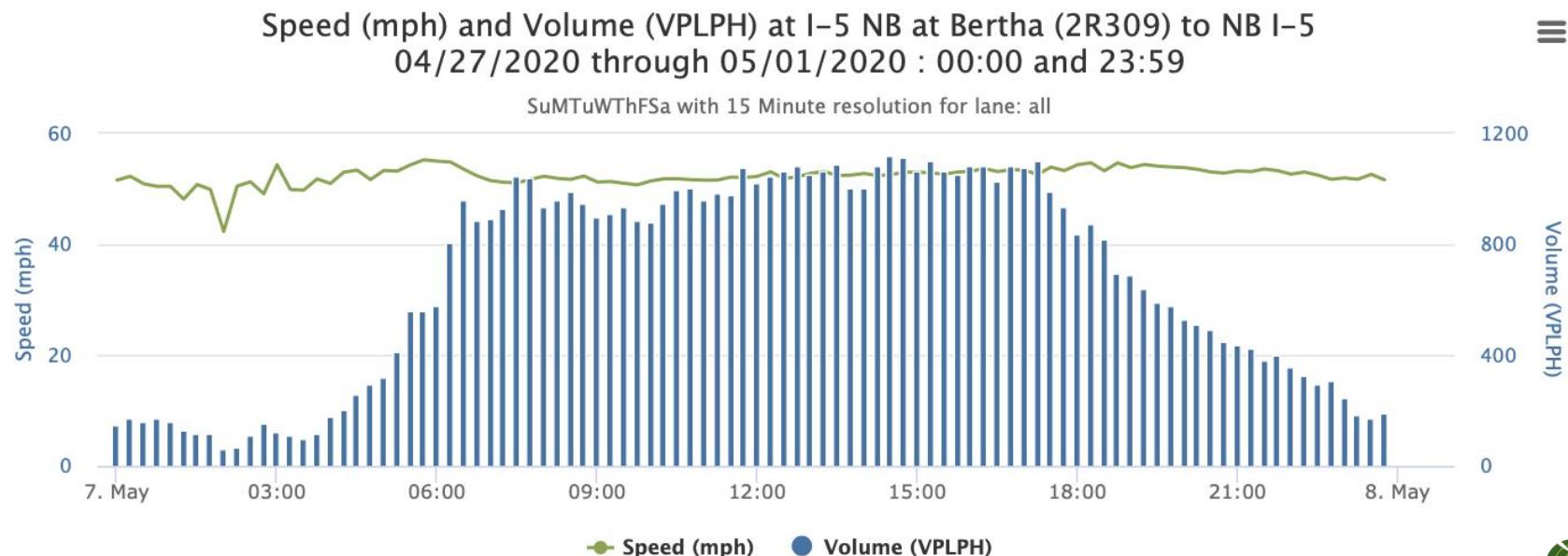


SuMTuWThFSa with 15 Minute resolution for lane: all



Date Range [?](#)**Time Range** [?](#)**Quantities** [?](#)**Configuration** [?](#)**Select Lane:** [?](#)Start: 04/27/2020 [?](#) Start: 00:00 [?](#) 1st: Speed [?](#) Resolution: 15min [?](#) End: 05/01/2020 [?](#) 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



Home Highways Stations Travel
Time

Vehicle
Length

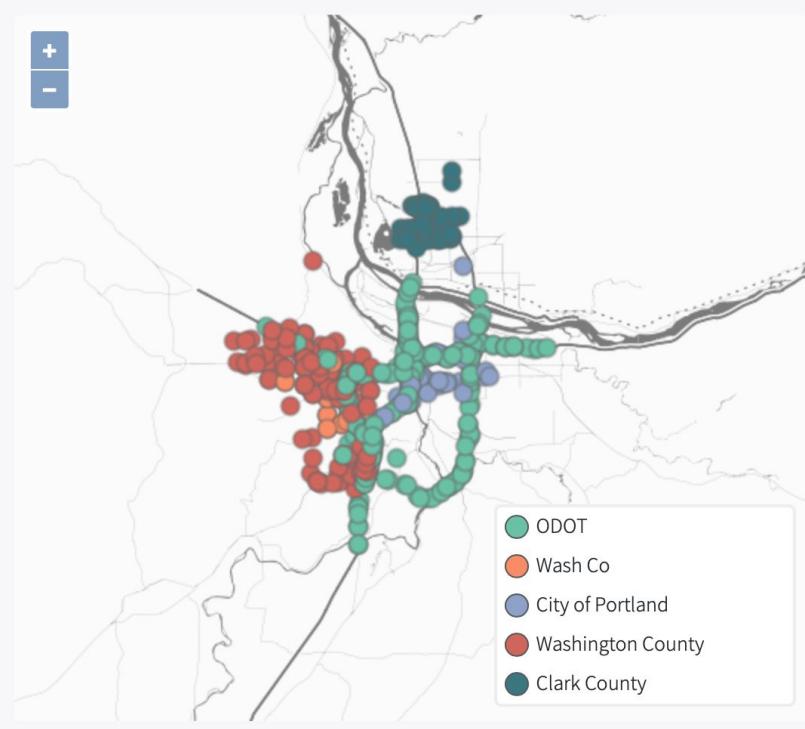
Downloads Arterial Arterial
Signal

FHWA
Data

Documentation &
Feed

Travel Time

Tour



Routes

Select a route

Start week

2020-05-03



Reliability
weeks

26

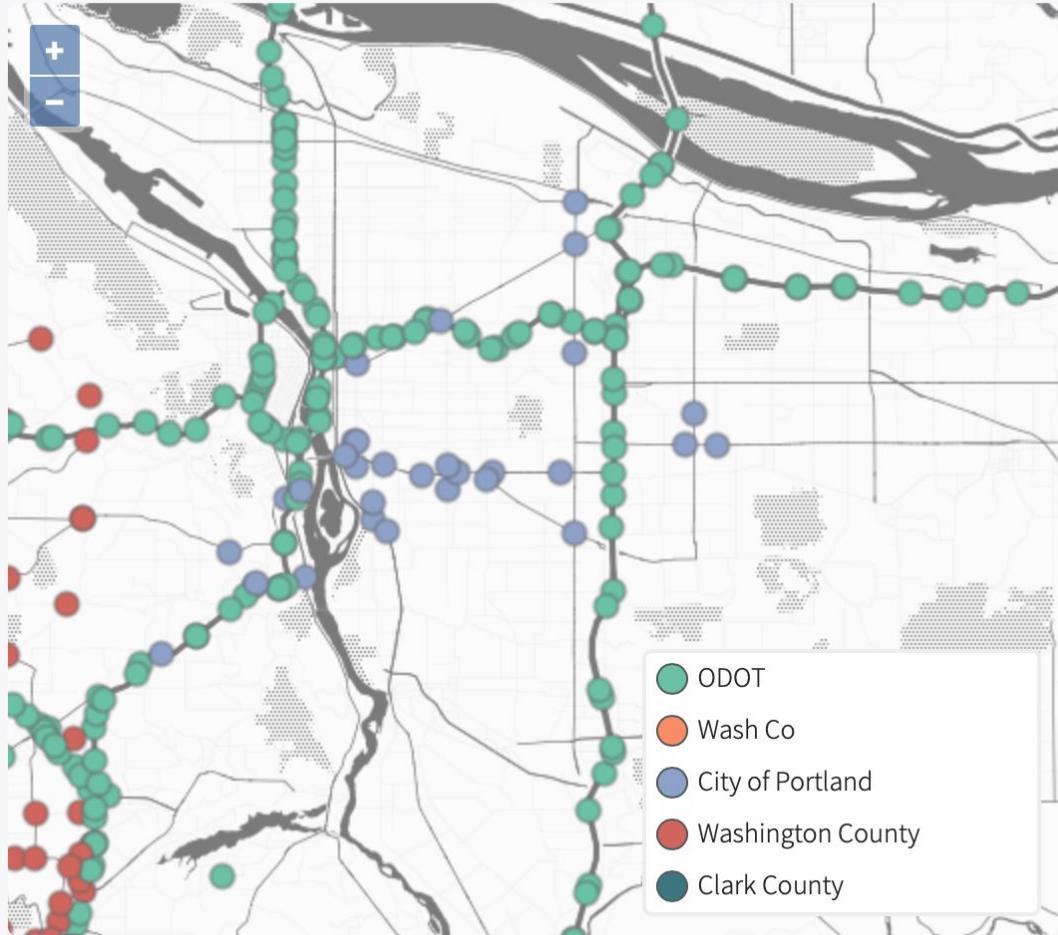
Standard

Aggregate

Yearly

Update

Download



Routes [i](#)

Select a route

Start week [i](#)

2020-05-03



Reliability
weeks

26



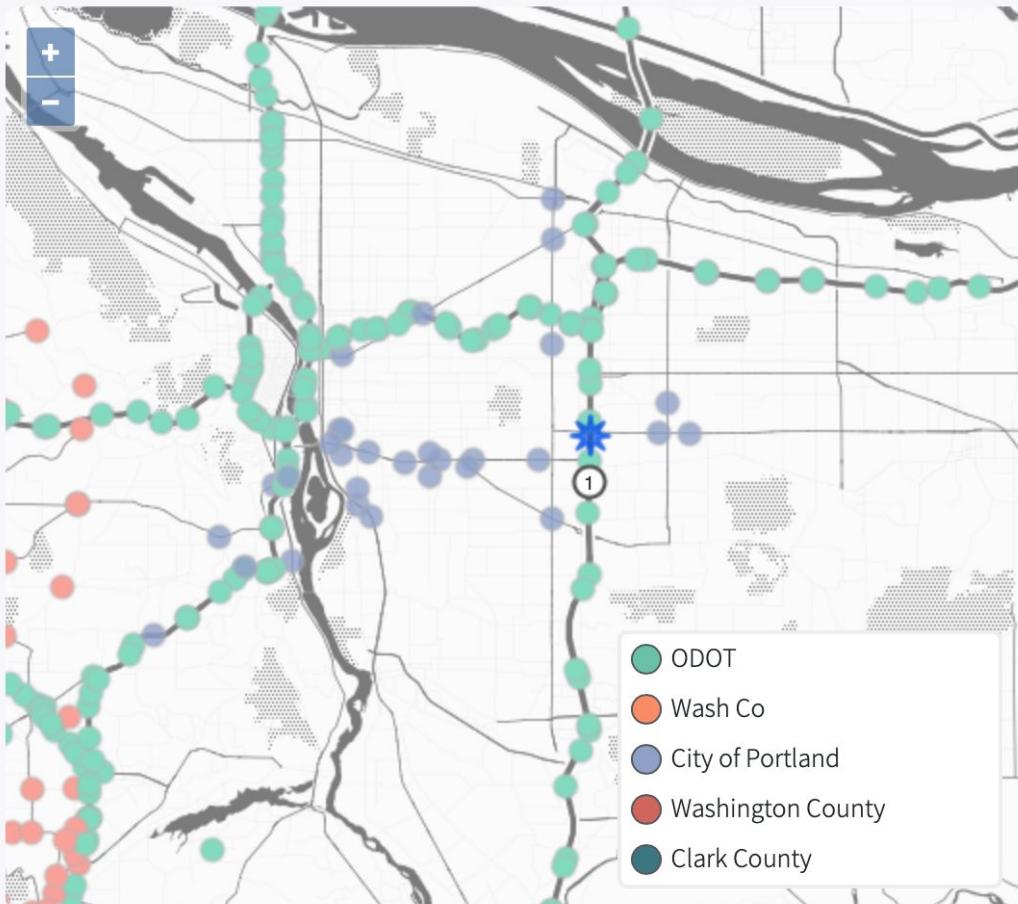
Standard

Aggregate

Yearly

Update

Download



Routes i

Select a route

Start week i

2020-05-03



Reliability
weeks

26



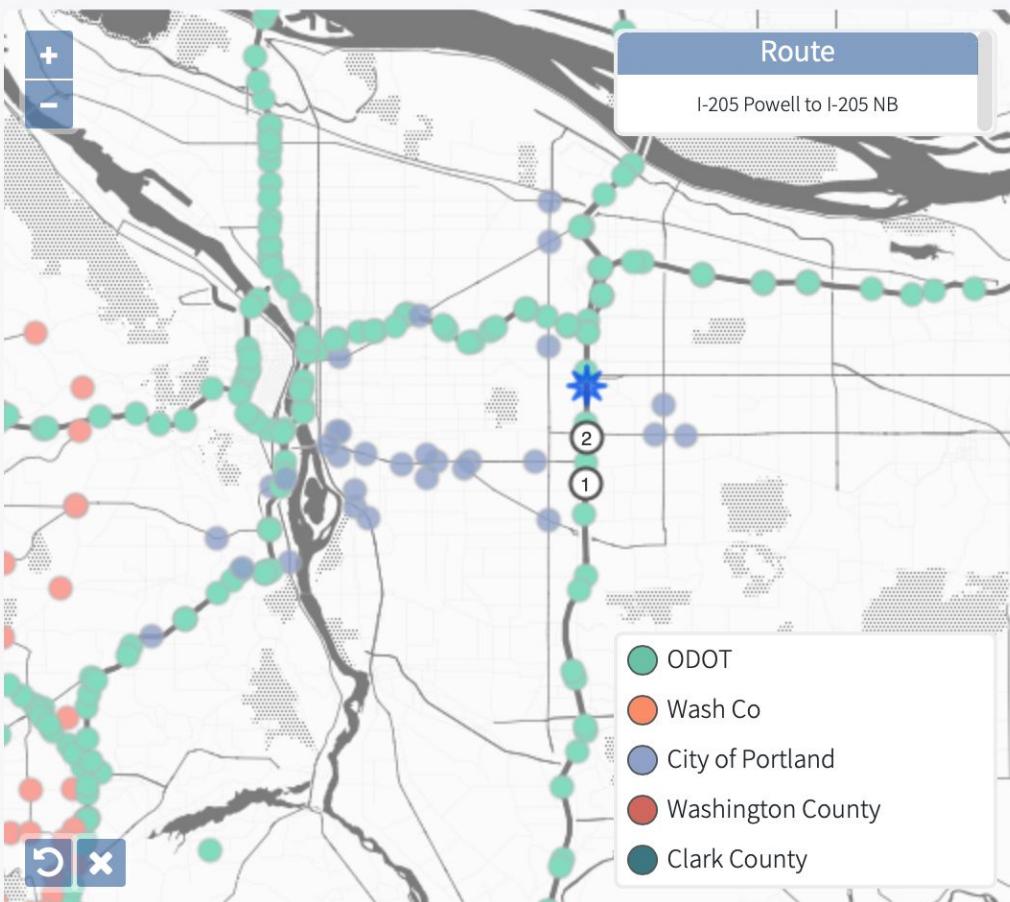
Standard

Aggregate

Yearly

Update

Download



Routes i

Select a route

Start week i

2020-05-03

Reliability
weeks

26

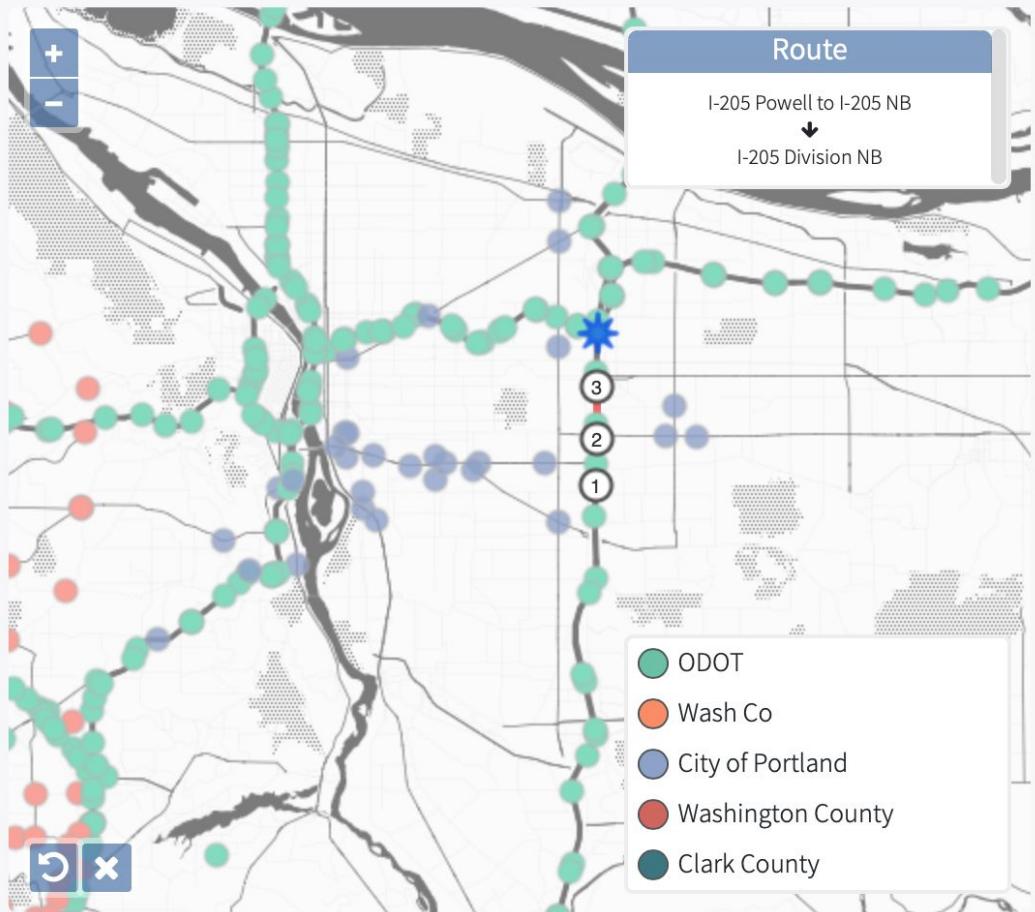
Standard

Aggregate

Yearly

Update

Download



Routes i

Select a route

Start week i

2020-05-03



Reliability
weeks

26



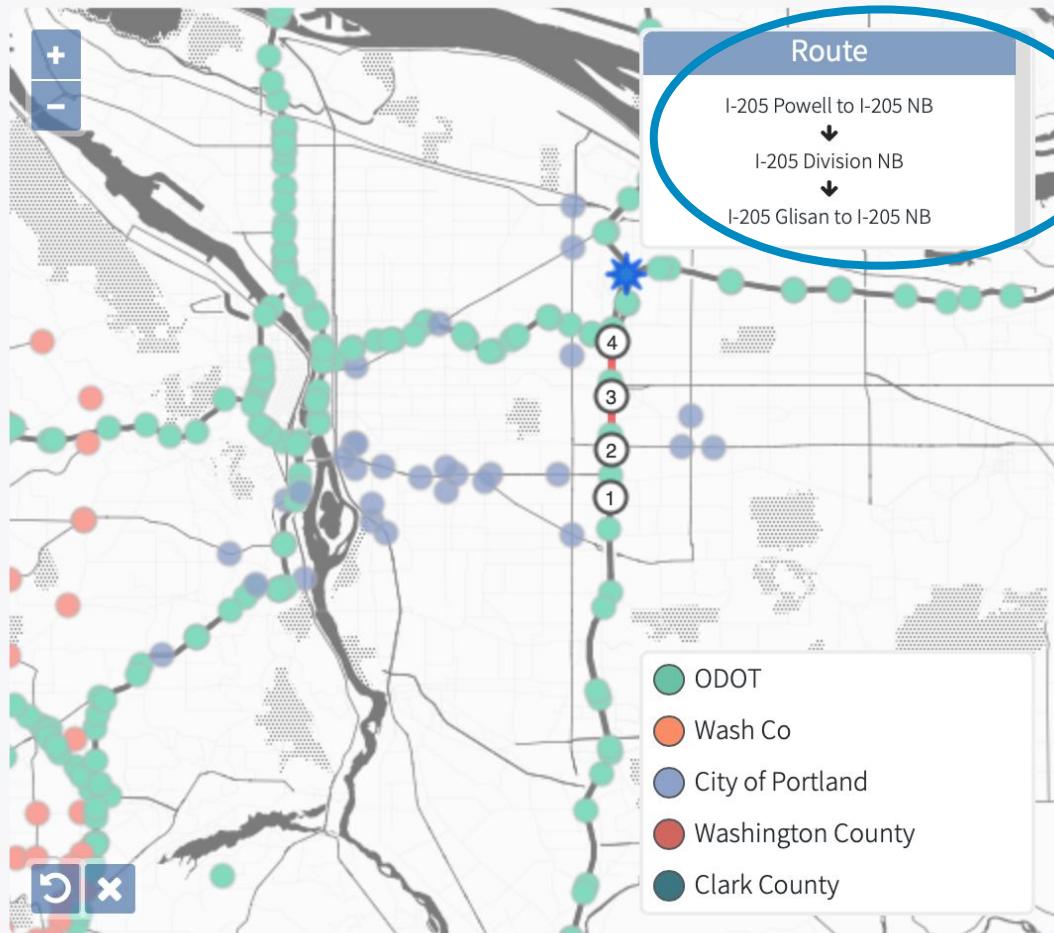
Standard

Aggregate

Yearly

Update

Download



Routes i

Select a route

Start week i

2020-05-03



Reliability
weeks

26



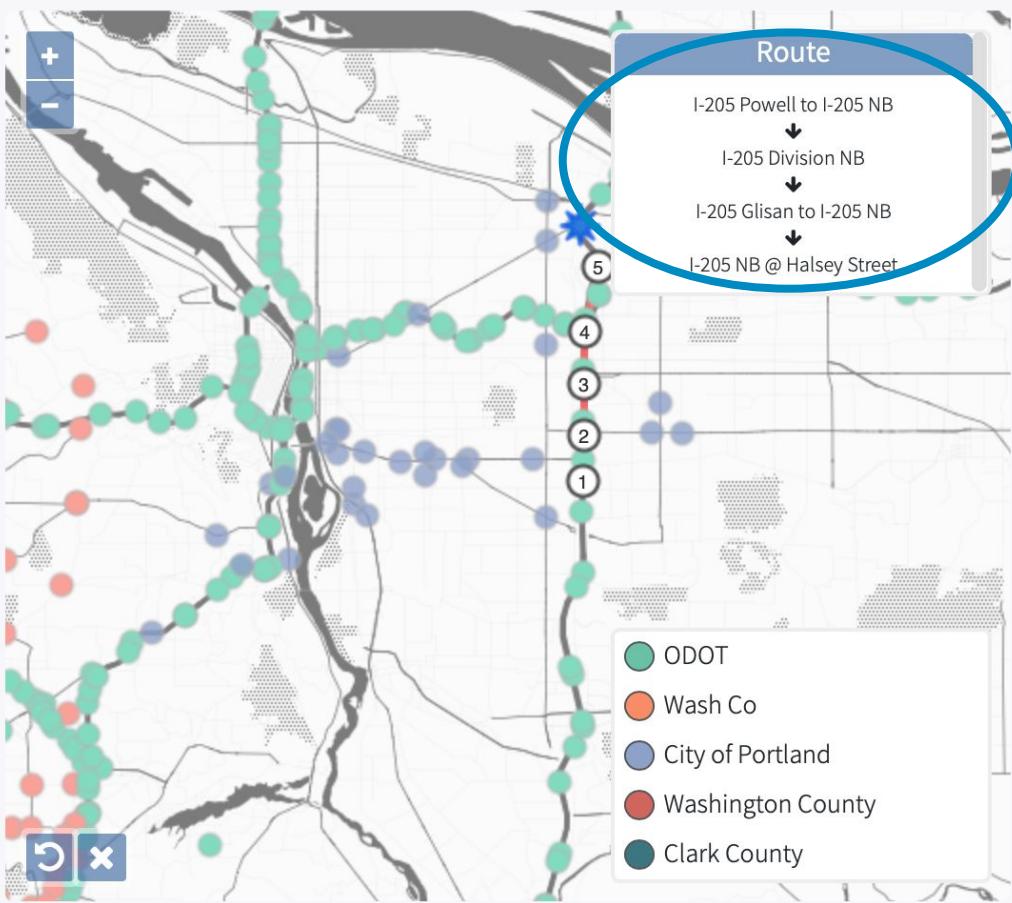
Standard

Aggregate

Yearly

Update

Download



Routes i

Select a route

Start week i

2020-05-03

Reliability
weeks

26

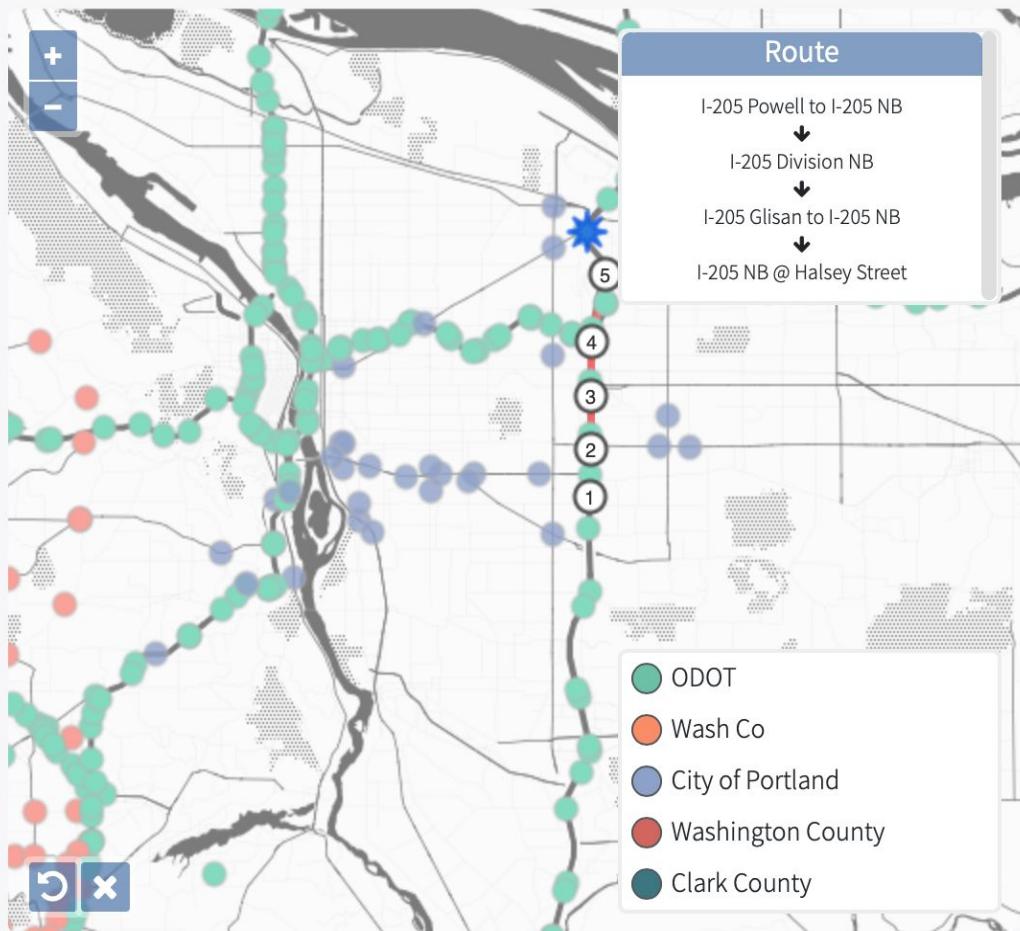
Standard

Aggregate

Yearly

Update

Download



Routes [i](#)

Select a route

Start week [i](#)

2020-03-15 [Calendar](#)

Reliability weeks

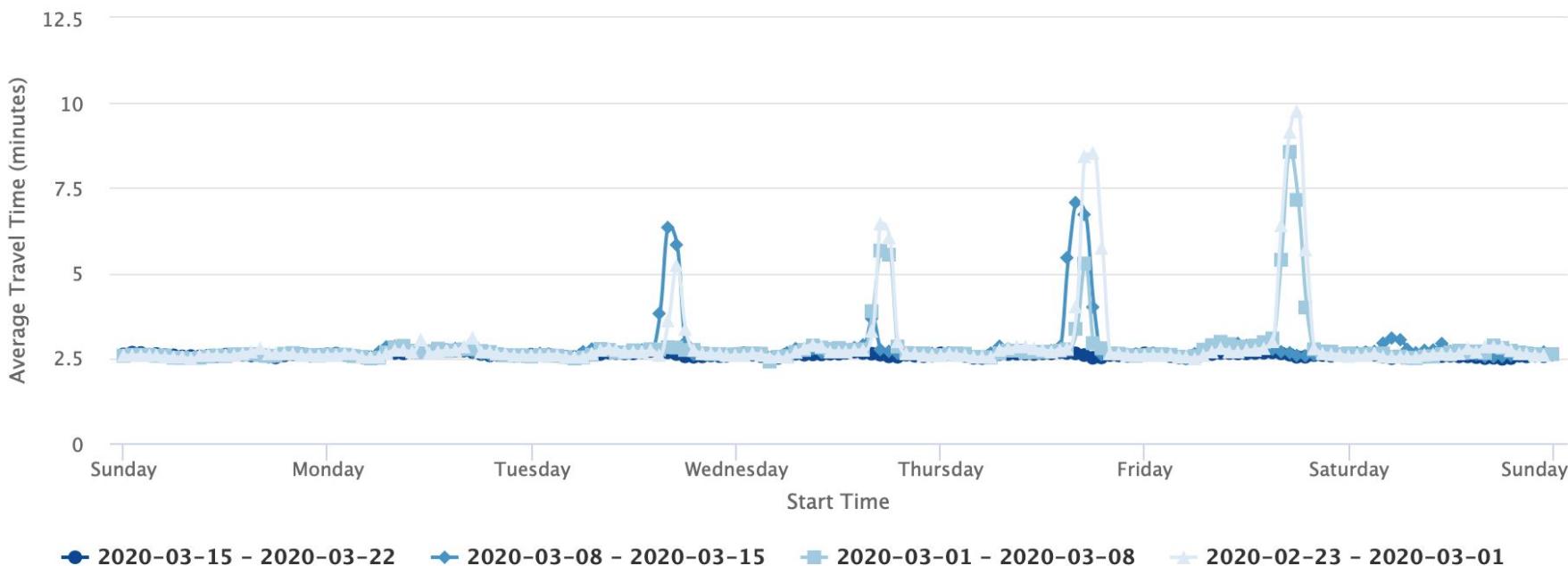
26

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

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

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

217 I-205 → 227 I-205



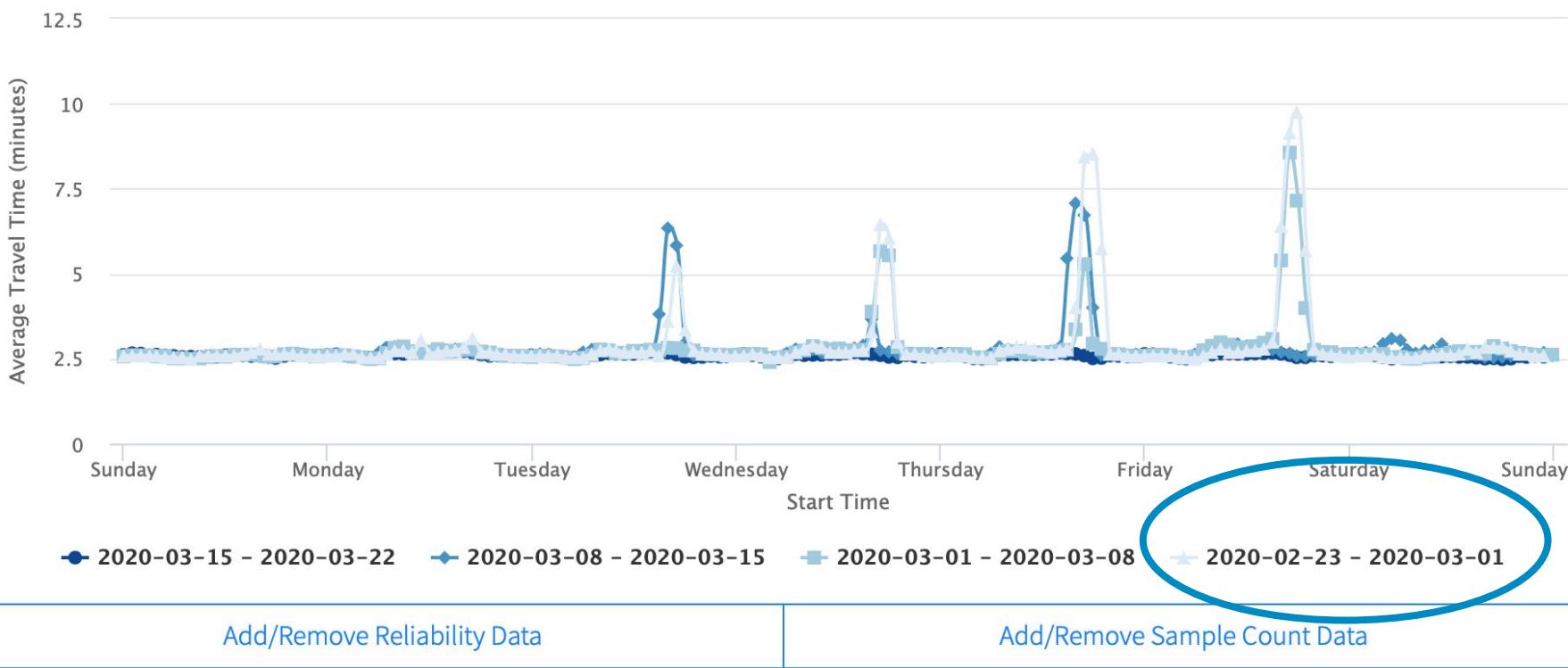
● 2020-03-15 - 2020-03-22 ◆ 2020-03-08 - 2020-03-15 ■ 2020-03-01 - 2020-03-08 ▲ 2020-02-23 - 2020-03-01

Add/Remove Reliability Data

Add/Remove Sample Count Data

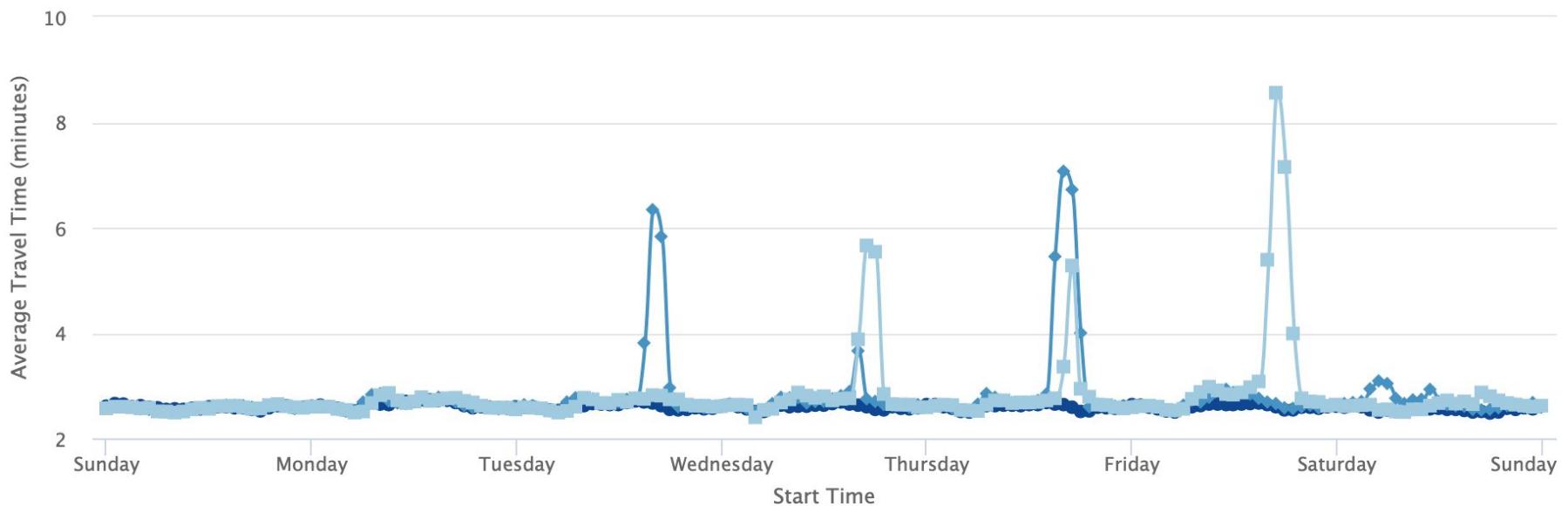
Weekly travel time data for weeks 2020-02-23 → 2020-03-15

217 I-205 → 227 I-205



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

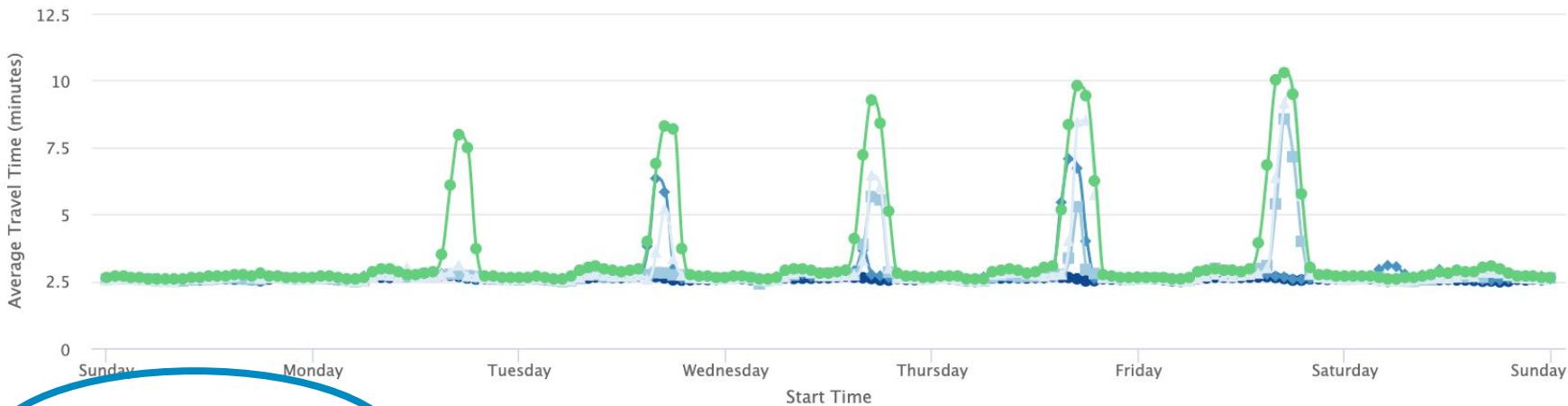
2020-02-23 - 2020-03-01

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
80% travel time (26 weeks)

2020-03-08 - 2020-03-15
20% travel time (26 weeks)

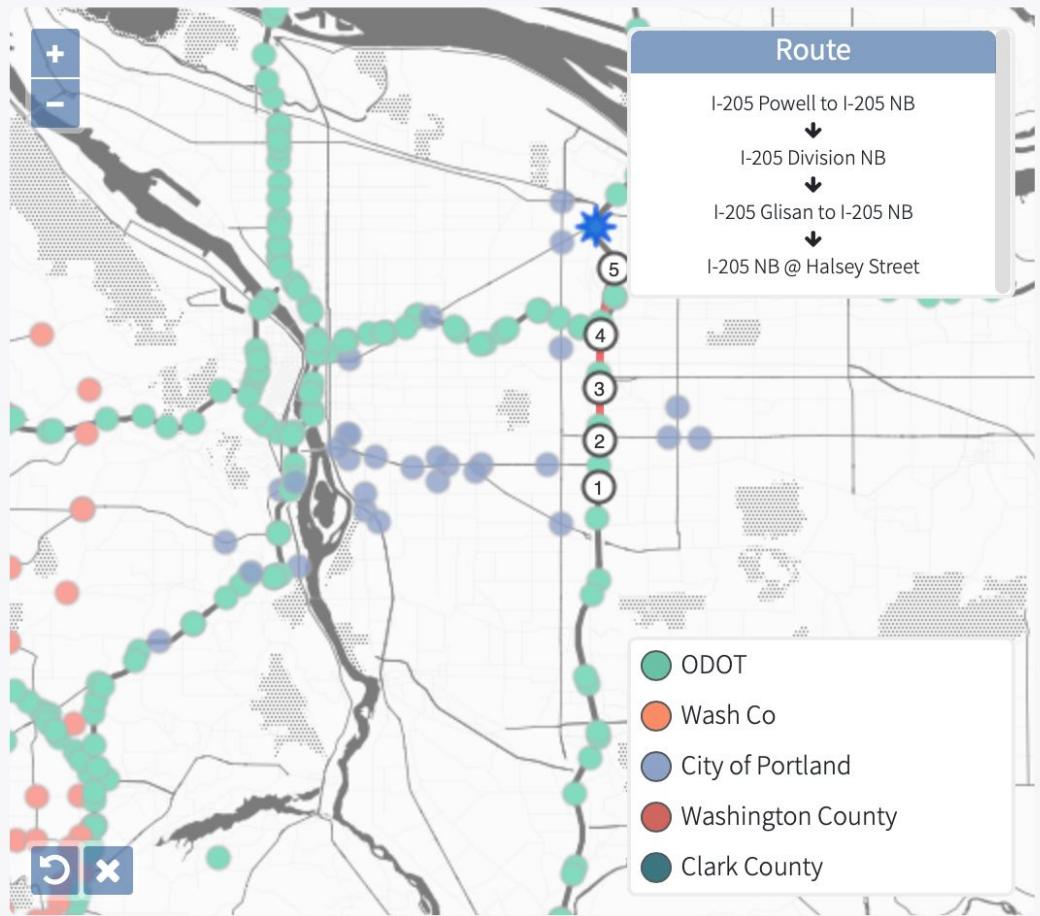
2020-03-01 - 2020-03-08
5% travel time (26 weeks)

2020-02-23 - 2020-03-01
avg travel time (26 weeks)

95% 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



Home Highways Stations Travel
Time

Vehicle
Length

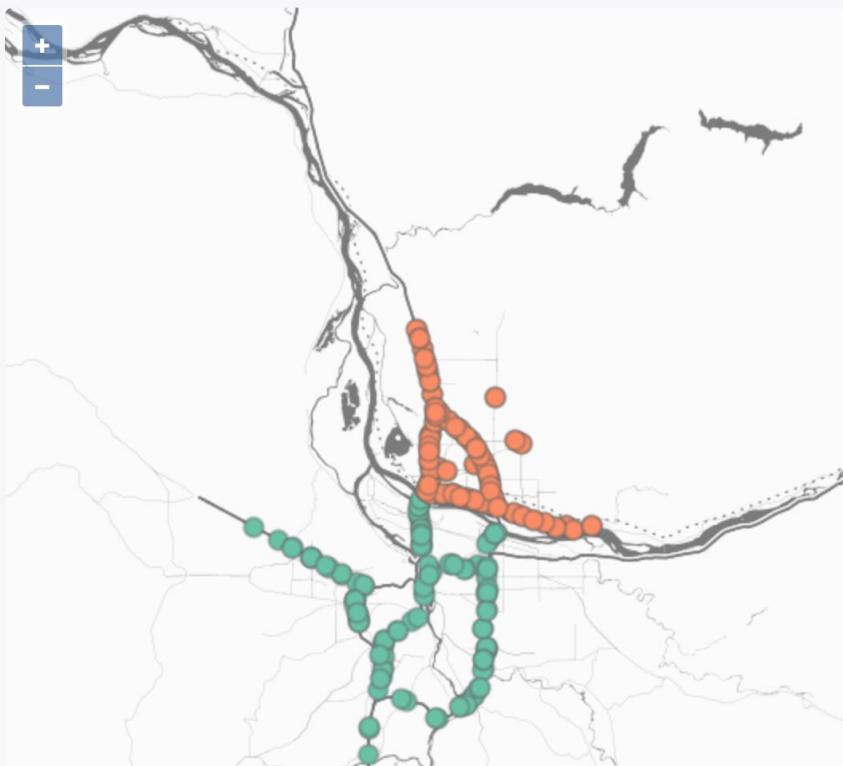
Downloads Arterial Arterial
Signal

FHWA
Data

Documen
Feed

Vehicle Length

Tour



Station

Select a station

Start

2020-05-07

End

2020-05-07

Measure

Length

Resolution

1hr

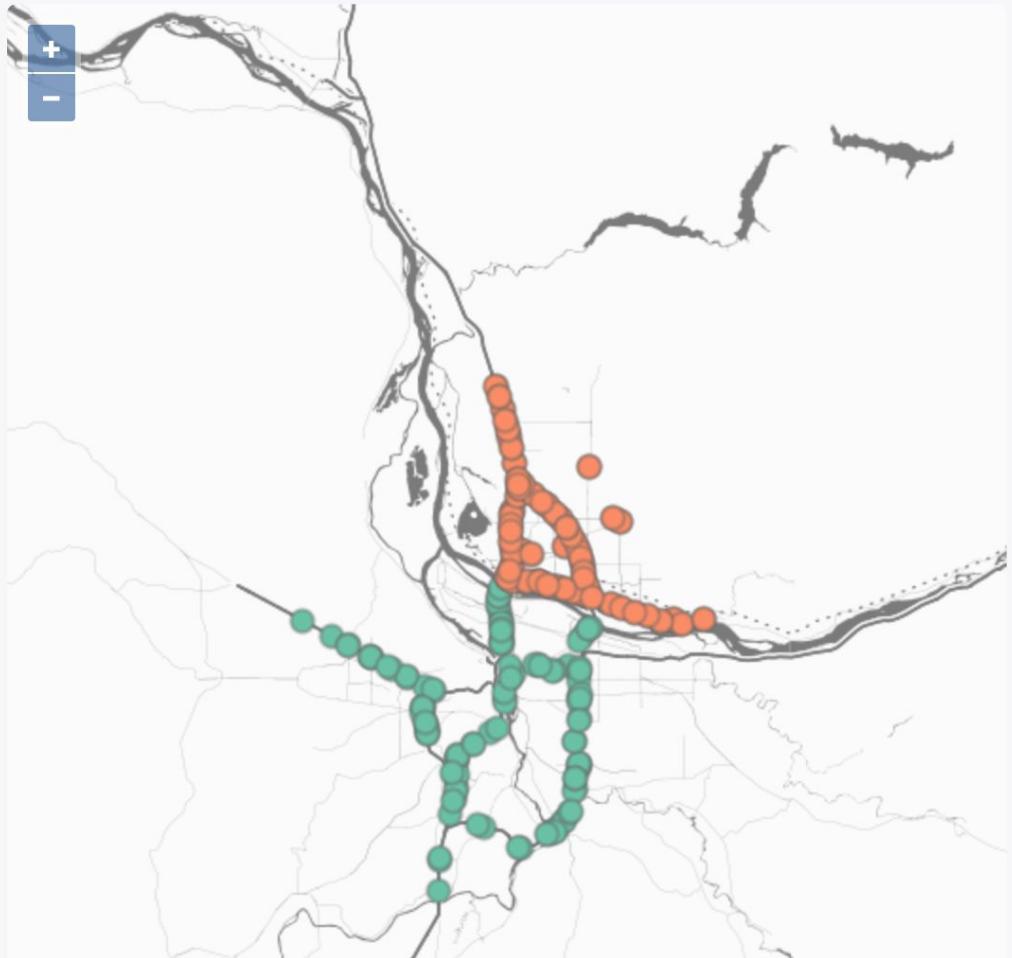
Standard

Aggregate

Update

Download





Station i

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 i

End i

Measure i

Length



Resolution i

1hr

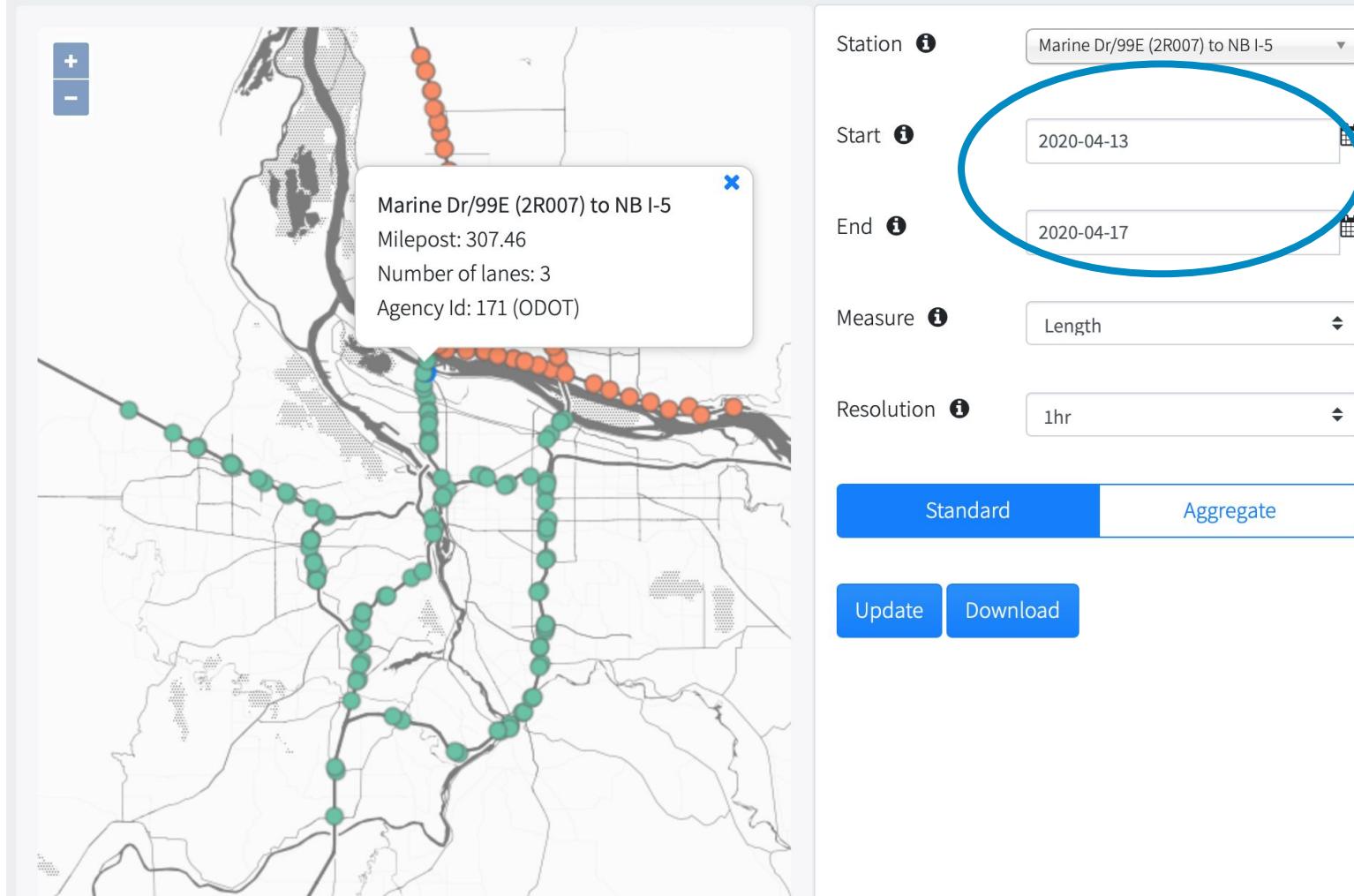


Standard

Aggregate

Update

Download



Station 

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

Start

2020-04-13

End

2020-04-17

Measure i

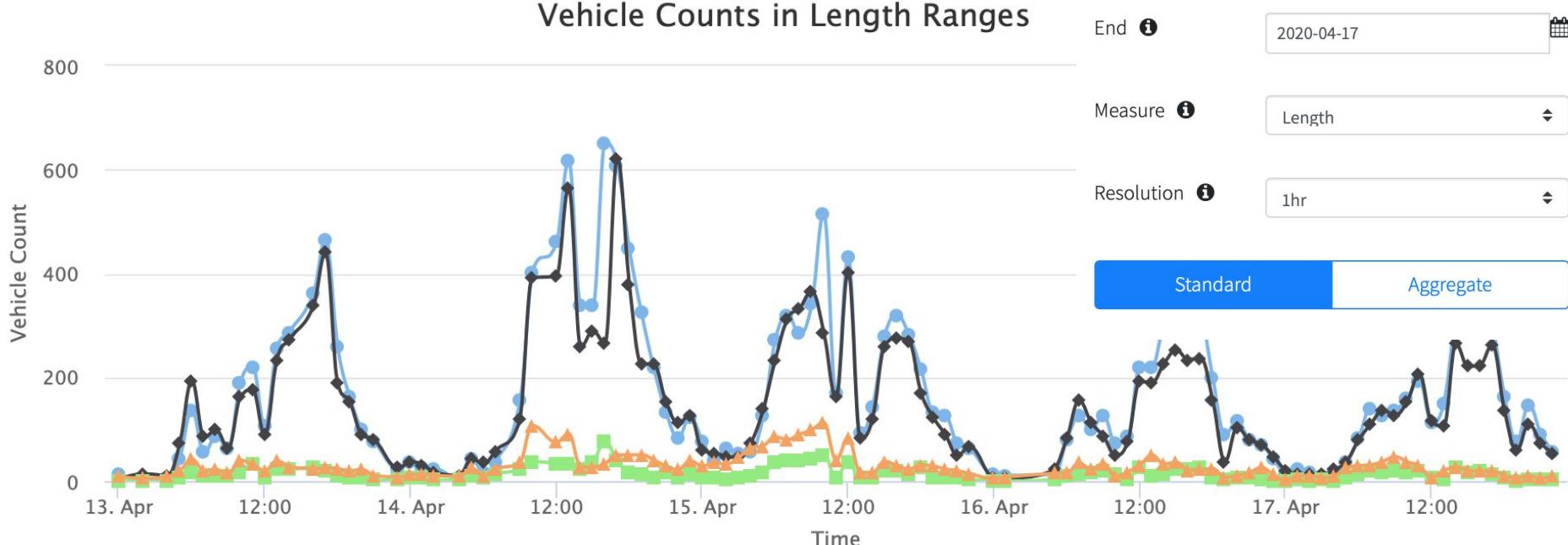
Length

Resolution 

1hr

Standard

Aggregate



Vehicle length ranges

• (0.20.01 ft)

◆ (20.0-35.01 ft)

 (35.0-60.01 ft)

★ (60.0-120.01 ft)

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

Milepost: 307.46

Number of lanes: 3

Agency Id: 171 (ODOT)

ODOT

WSDOT

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

Start i 2020-01

End i 2020-05

Measure i Length

Standard Aggregate

Measure Ranges i

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

Week Days i

Sun	Mon.	Tue	Wed	Thu	Fri	Sat
-----	------	-----	-----	-----	-----	-----

Update Download

Standard

Aggregate

Measure Ranges i

(0, 20.0] ft

(20.0, 35.0] ft

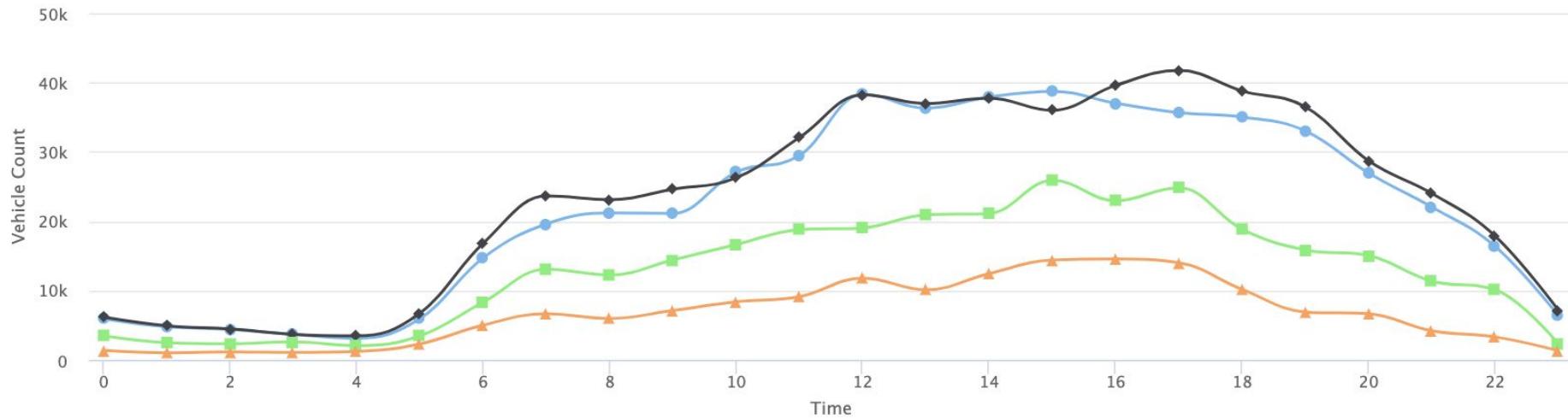
(35.0, 60.0] ft

(60.0, 120.0] ft

Week Days i

Sun Mon Tue Wed Thu Fri Sat

Vehicle Counts in Length Ranges

**Month**

2020 January

2020 February

2020 March

2020 April

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 interface with a navigation bar at the top. The 'Downloads' section is active, displaying filters for 'Highways'. It includes fields for 'Start date' (2020-05-07), 'End date' (2020-05-07), 'Days of week' (Sun through Sat), 'Format' (CSV), and a dropdown menu for 'Highway' containing options like I-205 SB, I-205 NB, I-405 SB, and I-405 NB.



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



The BikePed Portal homepage features a prominent blue header bar with navigation links. Below the header, the portal's name is displayed in large, bold, white letters. A descriptive paragraph follows, explaining the portal's purpose. At the bottom left, a large, white rectangular button with the text "GET STARTED" in bold, black, uppercase letters is centered. This button is circled in yellow. To the right of the button is a large, high-quality photograph of a bridge scene. On the bridge, several cyclists are riding in both directions. In the background, a modern blue and white train is visible, moving along overhead tracks. The overall design is clean and professional, emphasizing accessibility and connectivity.

BikePed Portal: Explore

BikePed Portal

Home Explore Dashboard About Login

① Select Data Set

② Explore

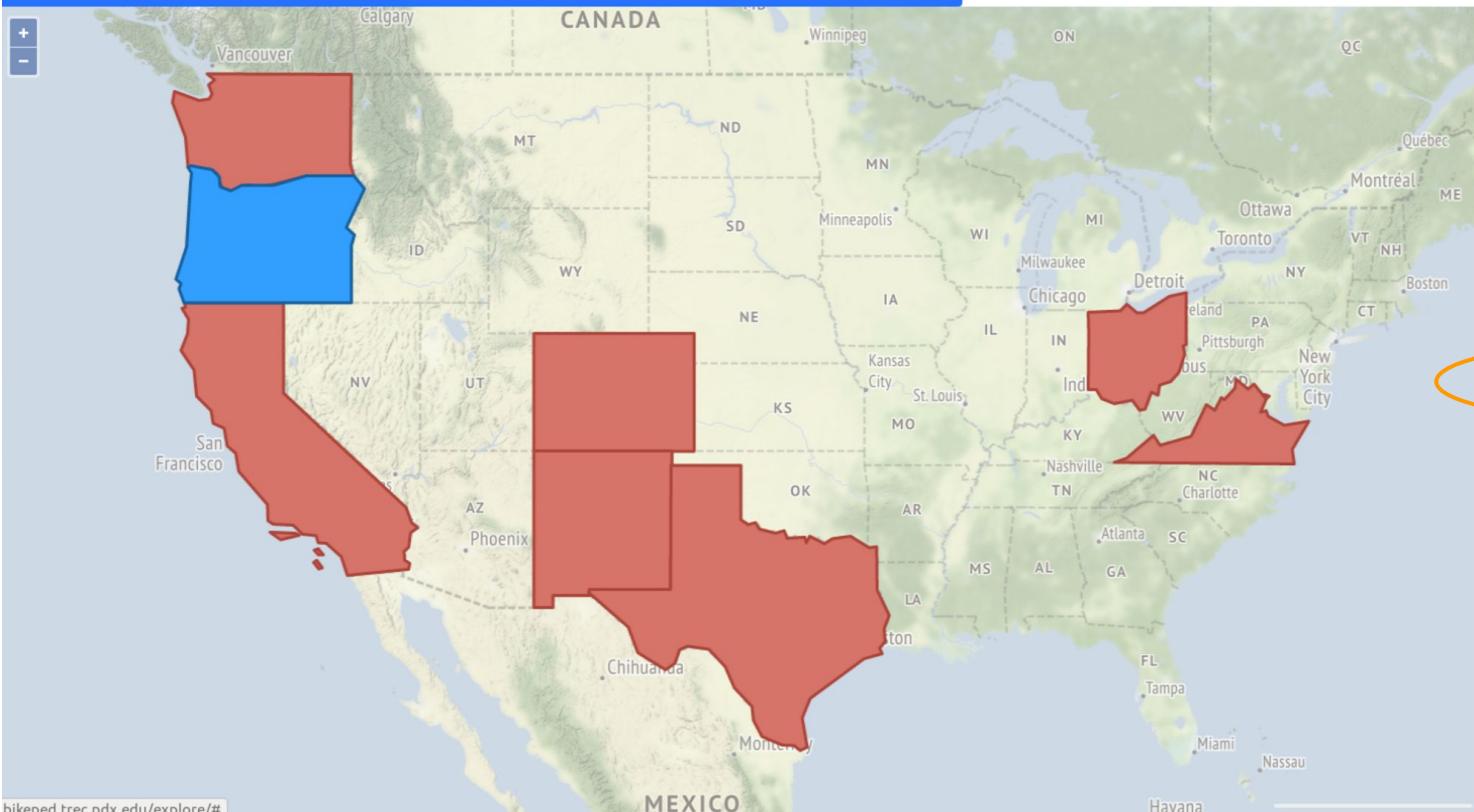
Select state of interest

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

MEXICO

CANADA

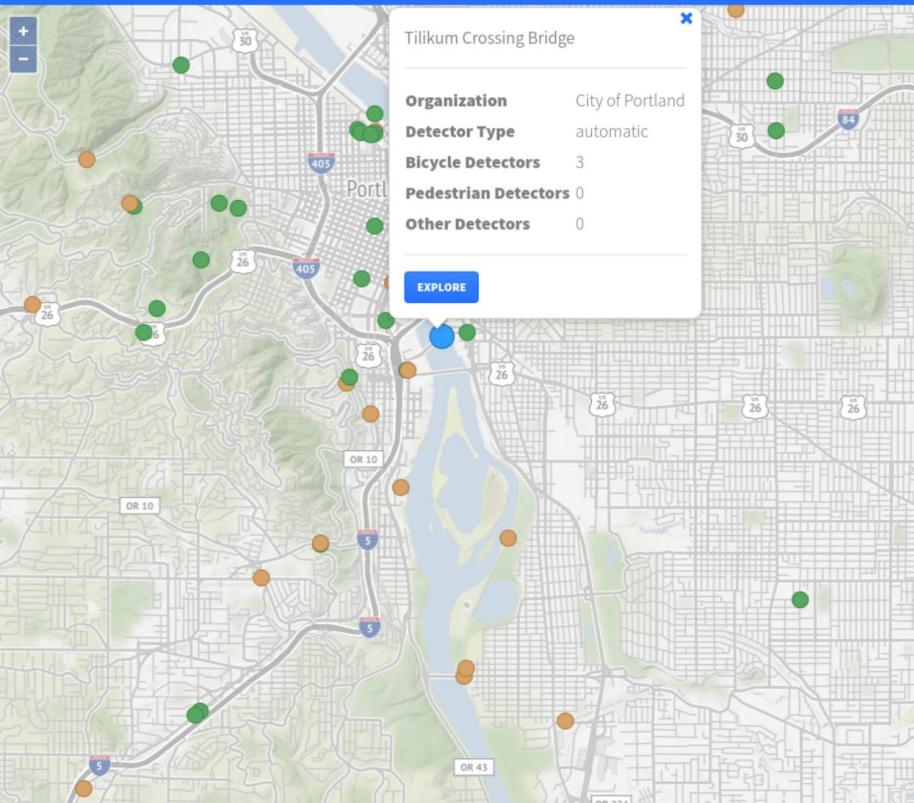
PORTAL

① Select Data Set**② Explore**

Select state of interest

- California
- Colorado
- District of Columbia
- New Mexico
- Ohio
- Oregon** (highlighted with an orange circle)
- Texas
- Virginia
- Washington

1 Select Data Set

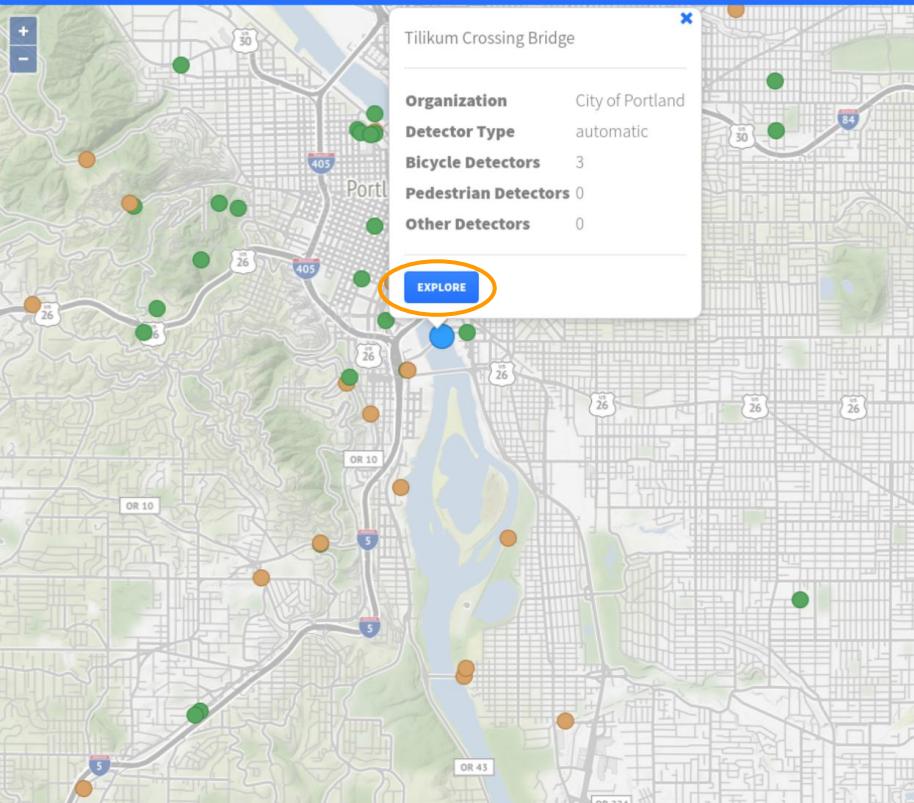


2 Explore

A list of segment areas of interest, with the Tilikum Crossing Bridge entry highlighted in blue.

- 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

The "Explore" section lists various segment areas 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** (highlighted in blue)
- 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

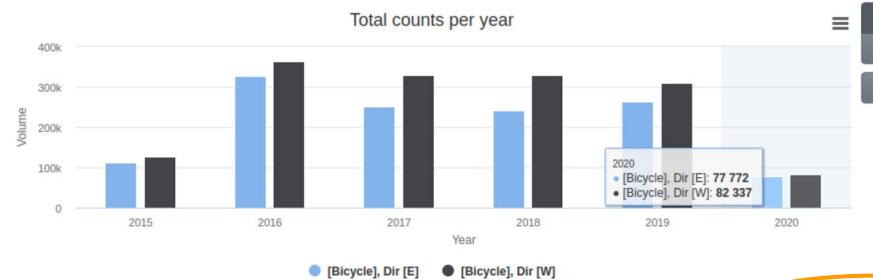


Click on a day bar to view the day data plot



① Select Data Set

Segment Area: Tilikum Crossing Bridge



② Explore

Click on a year bar to view the monthly plot



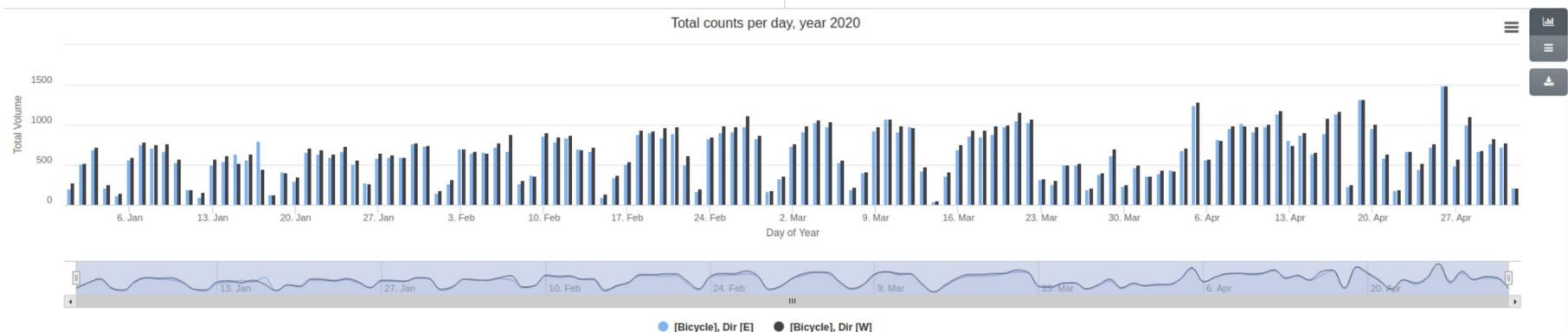
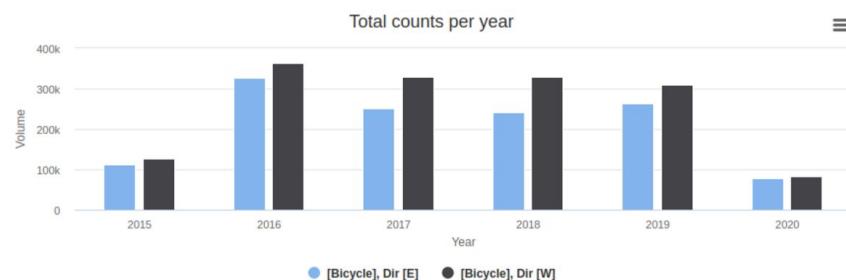
Click on a year bar to view the monthly plot

Click on a day bar to view the day data plot

① Select Data Set

② Explore

Segment Area: Tilikum Crossing Bridge

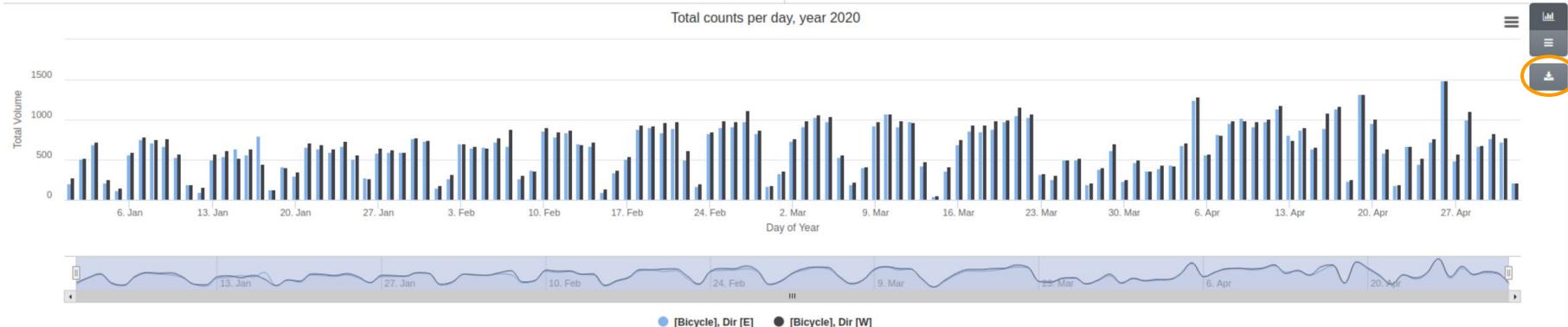
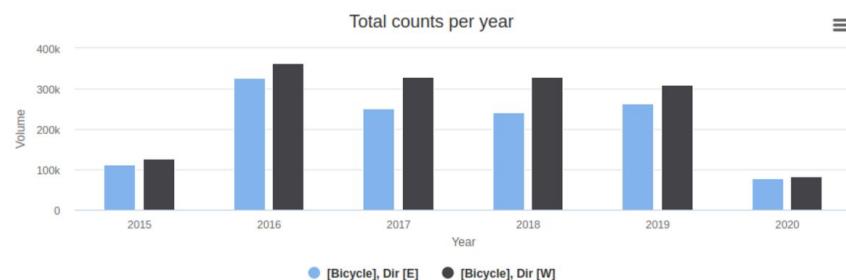


Click on a day bar to view the day-data plot

① Select Data Set

② Explore

Segment Area: Tilikum Crossing Bridge

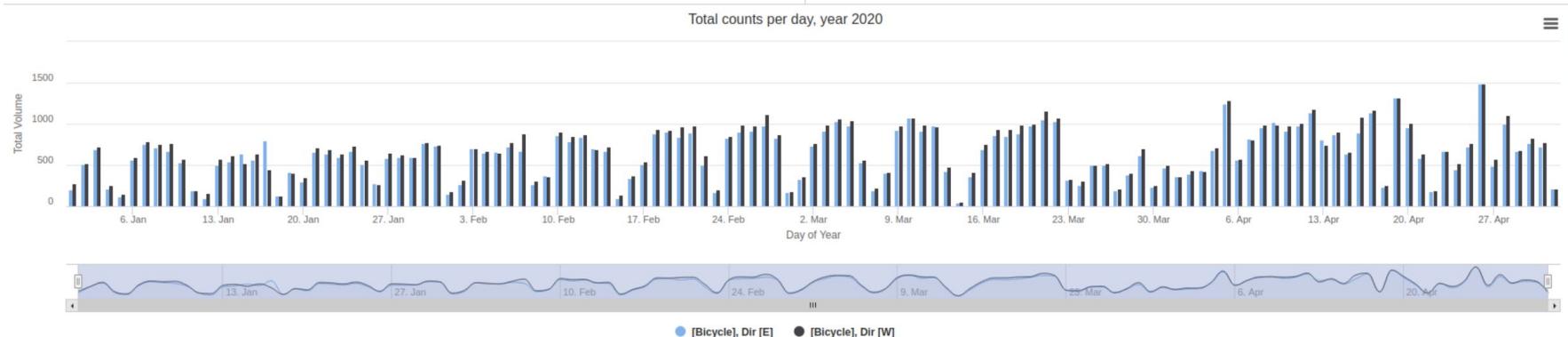
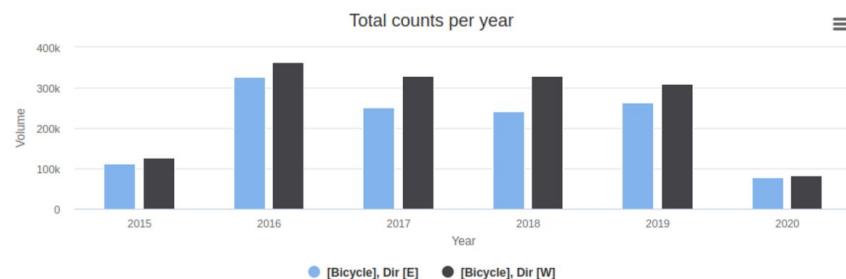


Click on a day bar to view the day-data plot

① Select Data Set

② Explore

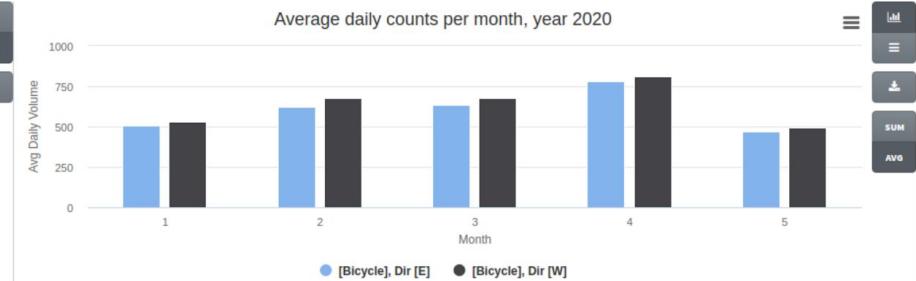
Segment Area: Tilikum Crossing Bridge



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

① Select Data Set**② Explore**

Segment Area: Tilikum Crossing Bridge



Collected counts for day 2020-04-19

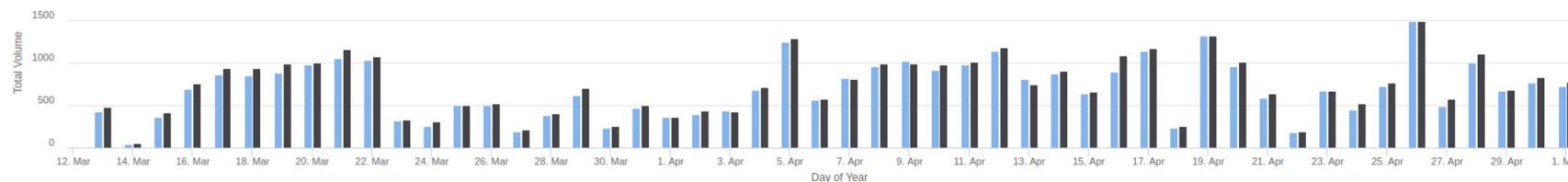
① Select Data Set

② Explore

Segment Area: Tilikum Crossing Bridge

● [Bicycle], Dir [E] ● [Bicycle], Dir [W]● [Bicycle], Dir [E] ● [Bicycle], Dir [W]

Total counts per day, year 2020

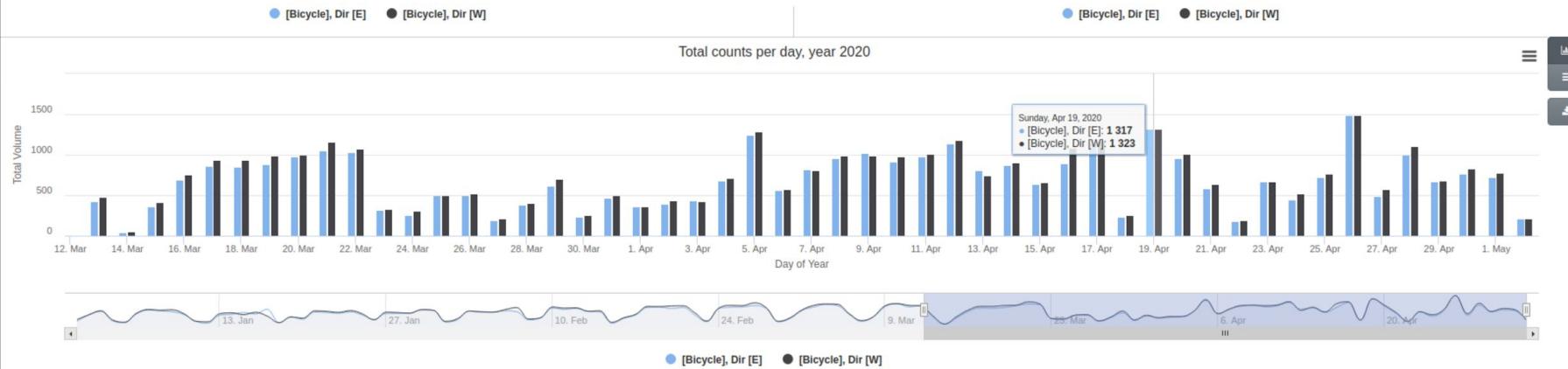
● [Bicycle], Dir [E] ● [Bicycle], Dir [W]

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

● [Bicycle], Dir [E] ● [Bicycle], Dir [W]

① Select Data Set

Segment Area: Tilikum Crossing Bridge



② Explore

① Select Data Set

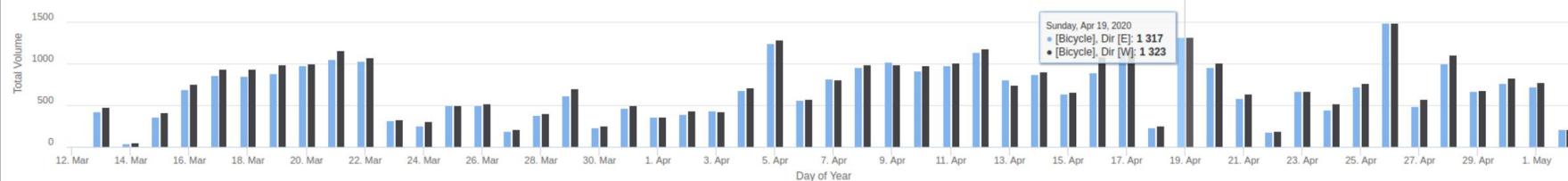
② Explore

Segment Area: Tilikum Crossing Bridge

● [Bicycle], Dir [E] ● [Bicycle], Dir [W]

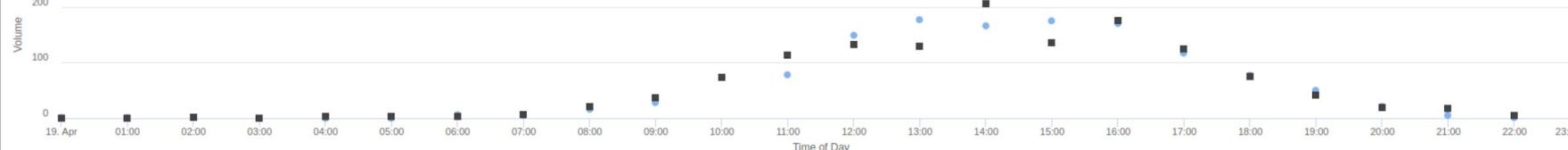
● [Bicycle], Dir [E] ● [Bicycle], Dir [W]

Total counts per day, year 2020



● [Bicycle], Dir [E] ● [Bicycle], Dir [W]

Collected counts for day 2020-04-19



QAQC

Download Data

My Info

Change My Password

My Account: Welcome Jennifer Dill

QAQC

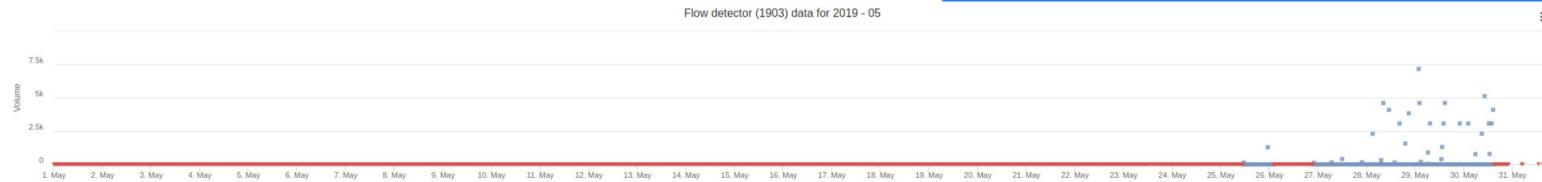
Download Data

My Info

Change My Password

My Account: Welcome Jennifer Dill

① Select Data Set



② Review

Detector Info

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

Select Data Period

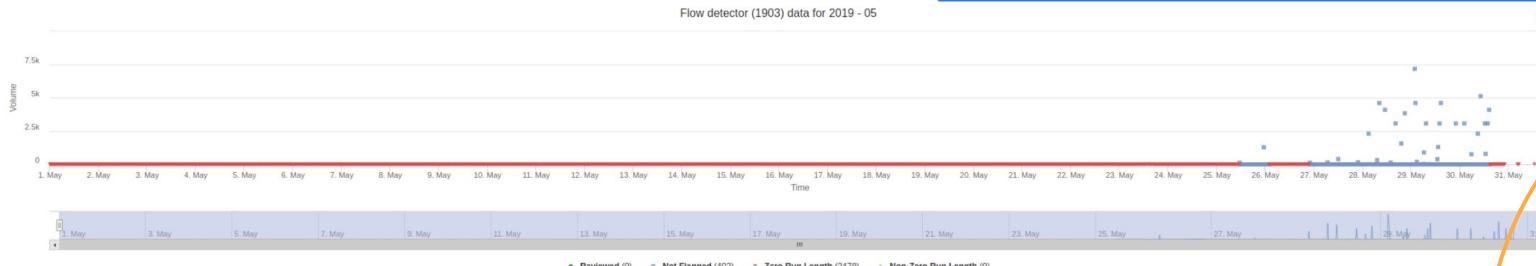
2019		
Jan	Feb	Mar
Apr	May	Jun
Jul	Aug	Sep
Oct	Nov	Dec
No data	No yet reviewed	
Fully reviewed	Partially reviewed	

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	O	0	4297
71863815	Not Reviewed	2019-05-01 00:15	2019-05-01 00:30	0	S	O	0	4297
71863816	Not Reviewed	2019-05-01 00:30	2019-05-01 00:45	0	S	O	0	4297
71863817	Not Reviewed	2019-05-01 00:45	2019-05-01 01:00	0	S	O	0	4297
71863818	Not Reviewed	2019-05-01 01:00	2019-05-01 01:15	0	S	O	0	4297
71863819	Not Reviewed	2019-05-01 01:15	2019-05-01 01:30	0	S	O	0	4297
71863820	Not Reviewed	2019-05-01 01:30	2019-05-01 01:45	0	S	O	0	4297
71863821	Not Reviewed	2019-05-01 01:45	2019-05-01 02:00	0	S	O	0	4297
71863822	Not Reviewed	2019-05-01 02:00	2019-05-01 02:15	0	S	O	0	4297
71863823	Not Reviewed	2019-05-01 02:15	2019-05-01 02:30	0	S	O	0	4297
71863824	Not Reviewed	2019-05-01 02:30	2019-05-01 02:45	0	S	O	0	4297
71863825	Not Reviewed	2019-05-01 02:45	2019-05-01 03:00	0	S	O	0	4297
71863826	Not Reviewed	2019-05-01 03:00	2019-05-01 03:15	0	S	O	0	4297

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

① Select Data Set



② Review

#	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: Tilikum 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,

BikePed Portal: Additional features & upcoming projects

User restricted site:

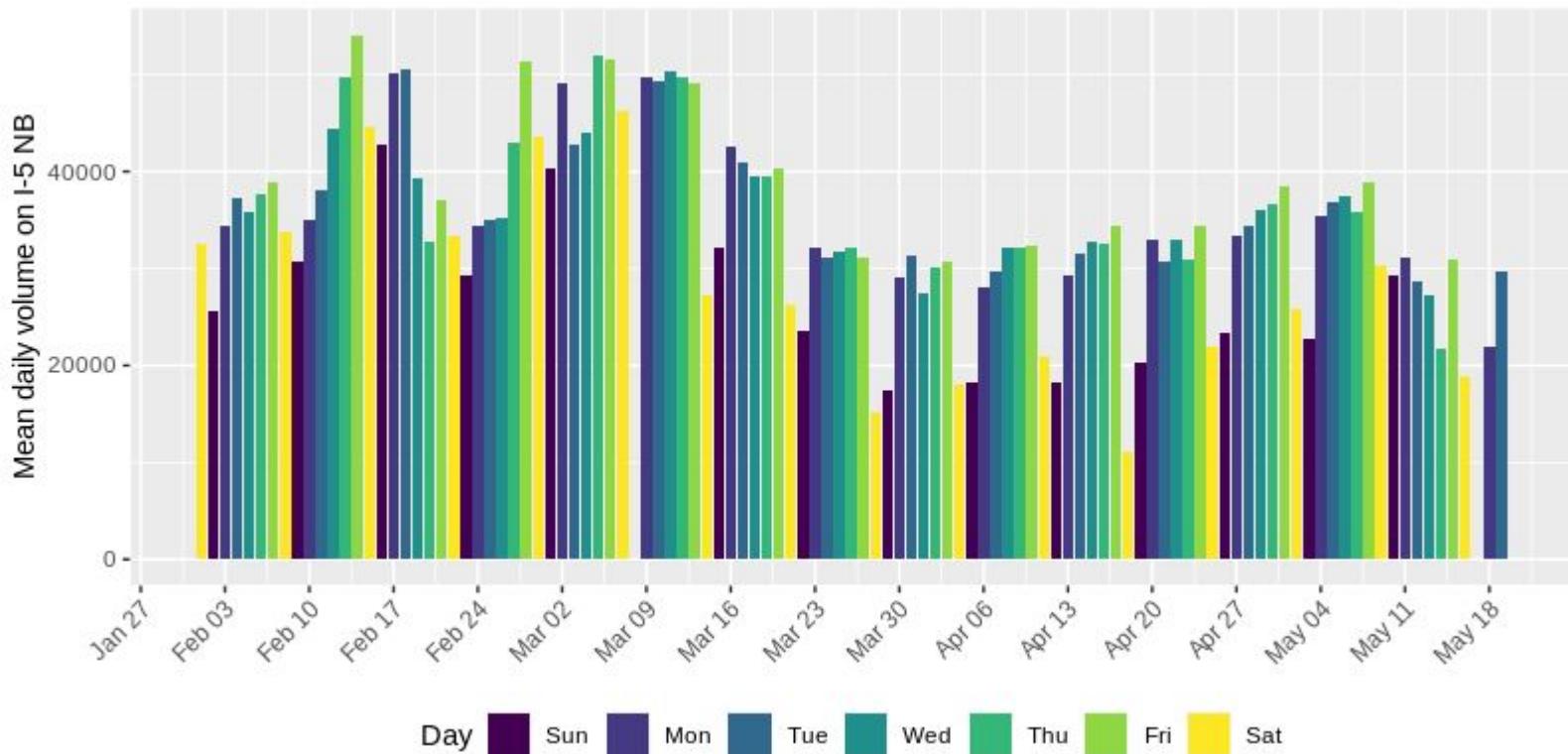
- Organization owner versus organization user.
- Shared permissions with multiple organizations.
- Download raw data.
- Organization specific dashboard.
- Export data in TMAS format.
- AADNMT

Transportation trends since the detection of COVID-19 in Oregon

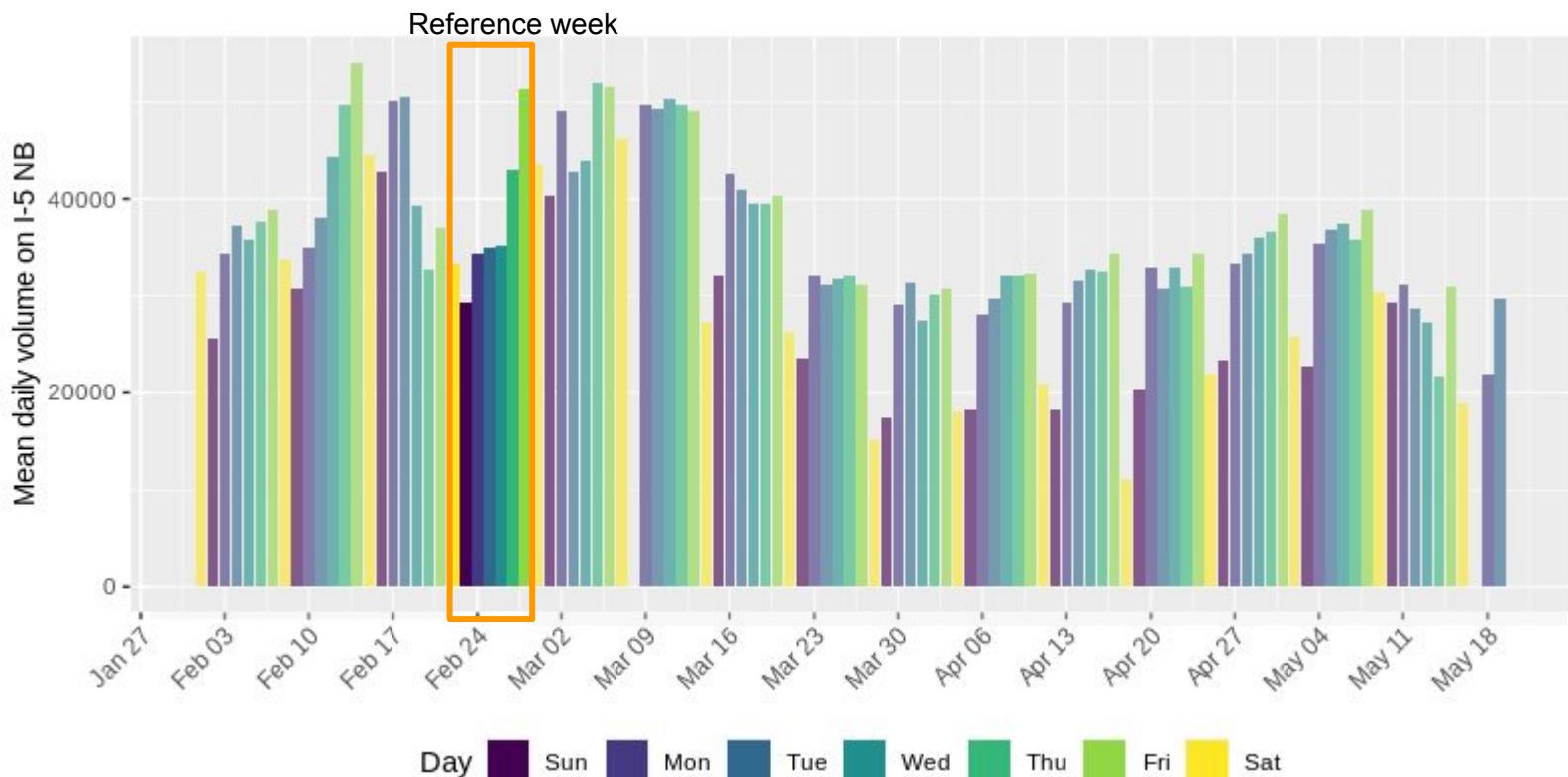
A few dates to keep in mind:

- 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

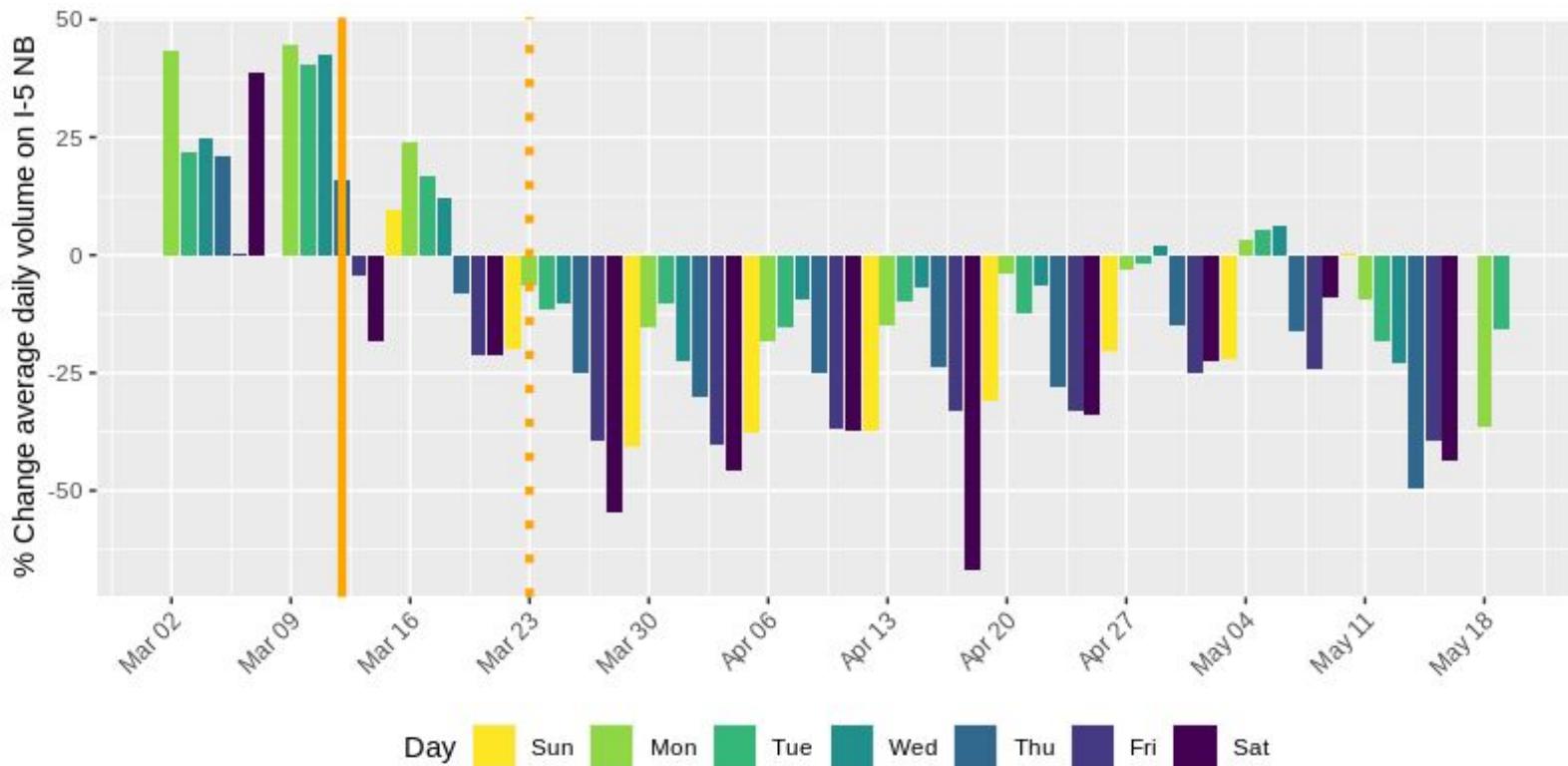


Mean daily volume along I-5 NB

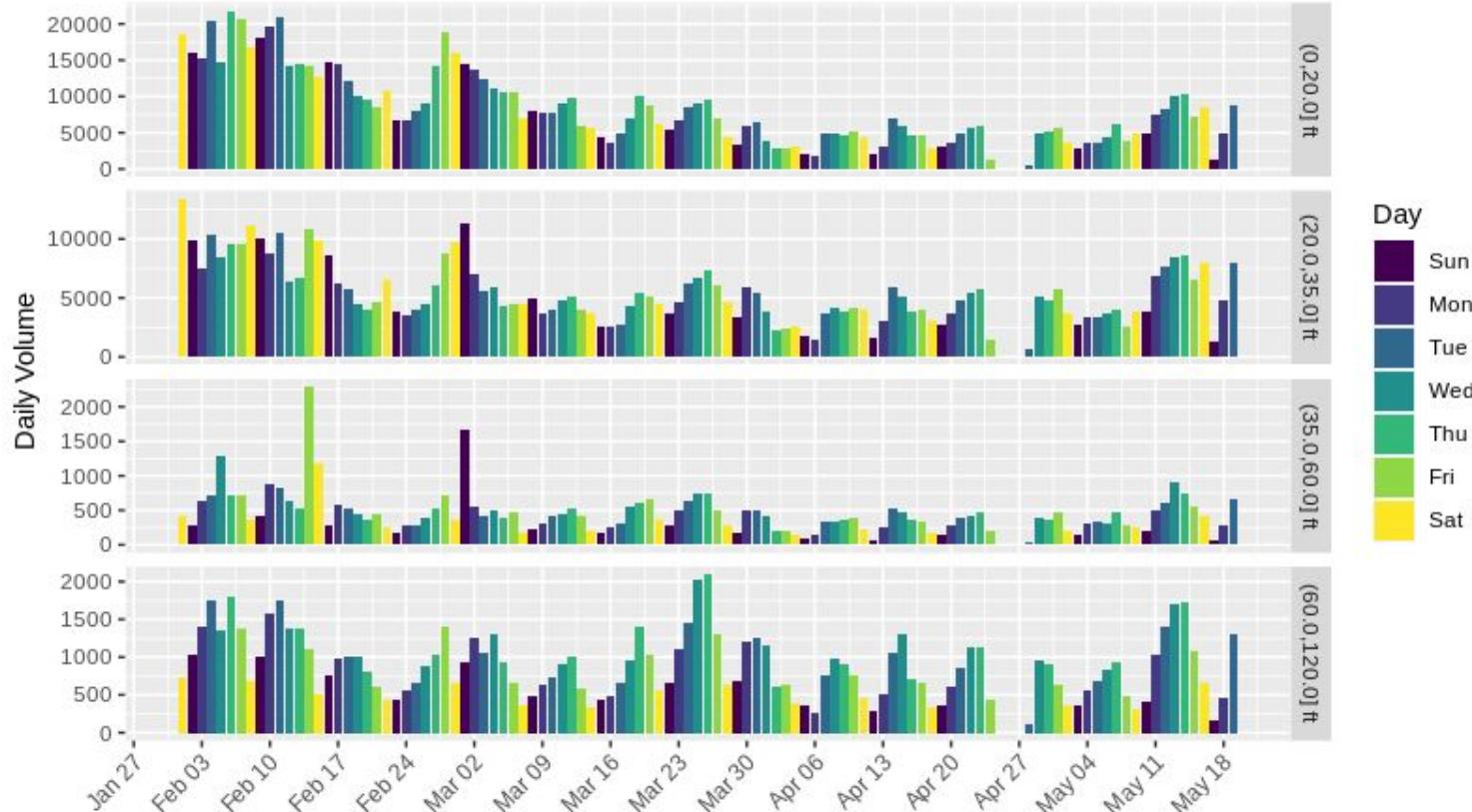


% Change average daily volume along I-5 NB

(reference week: Feb 22)

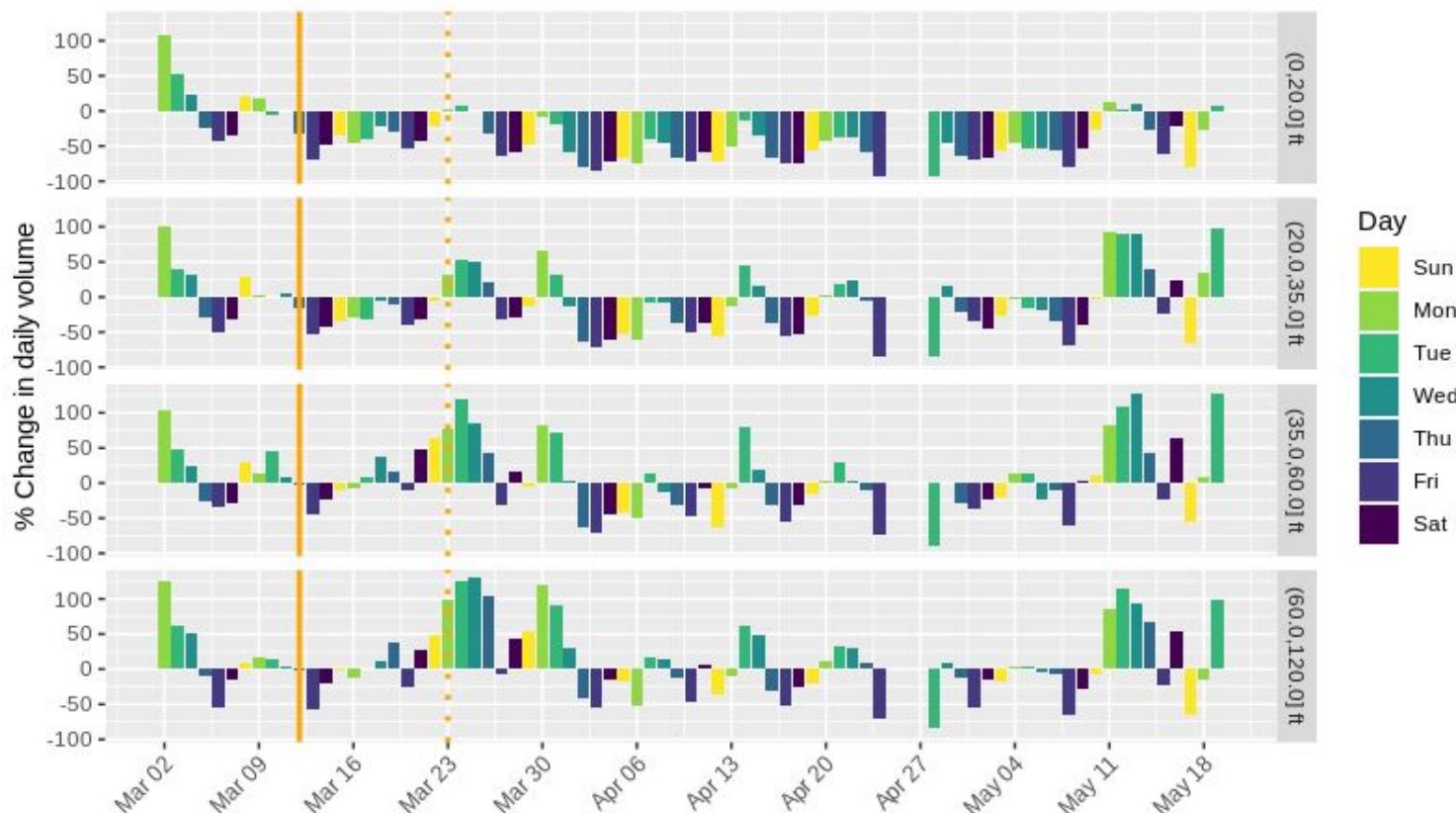


Vehicle length daily volume: Marine Dr/99E to I-5 NB

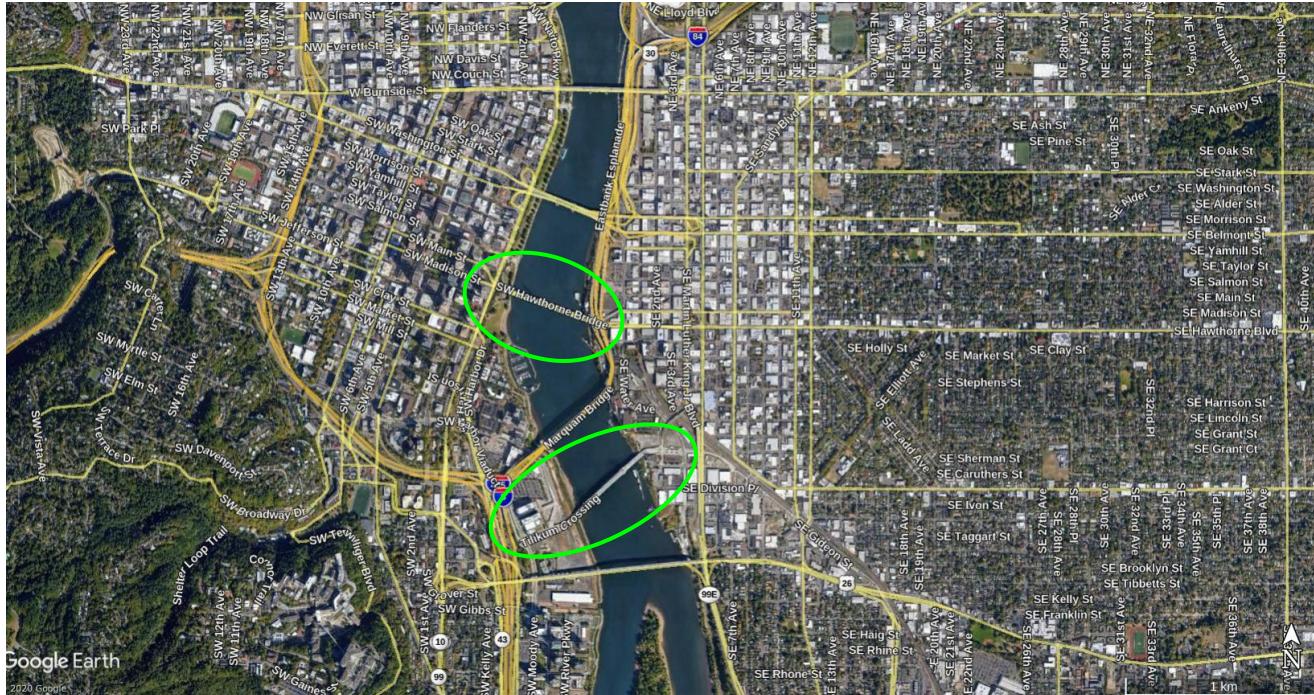


% change daily volume: Marine Dr/99E to I-5 NB

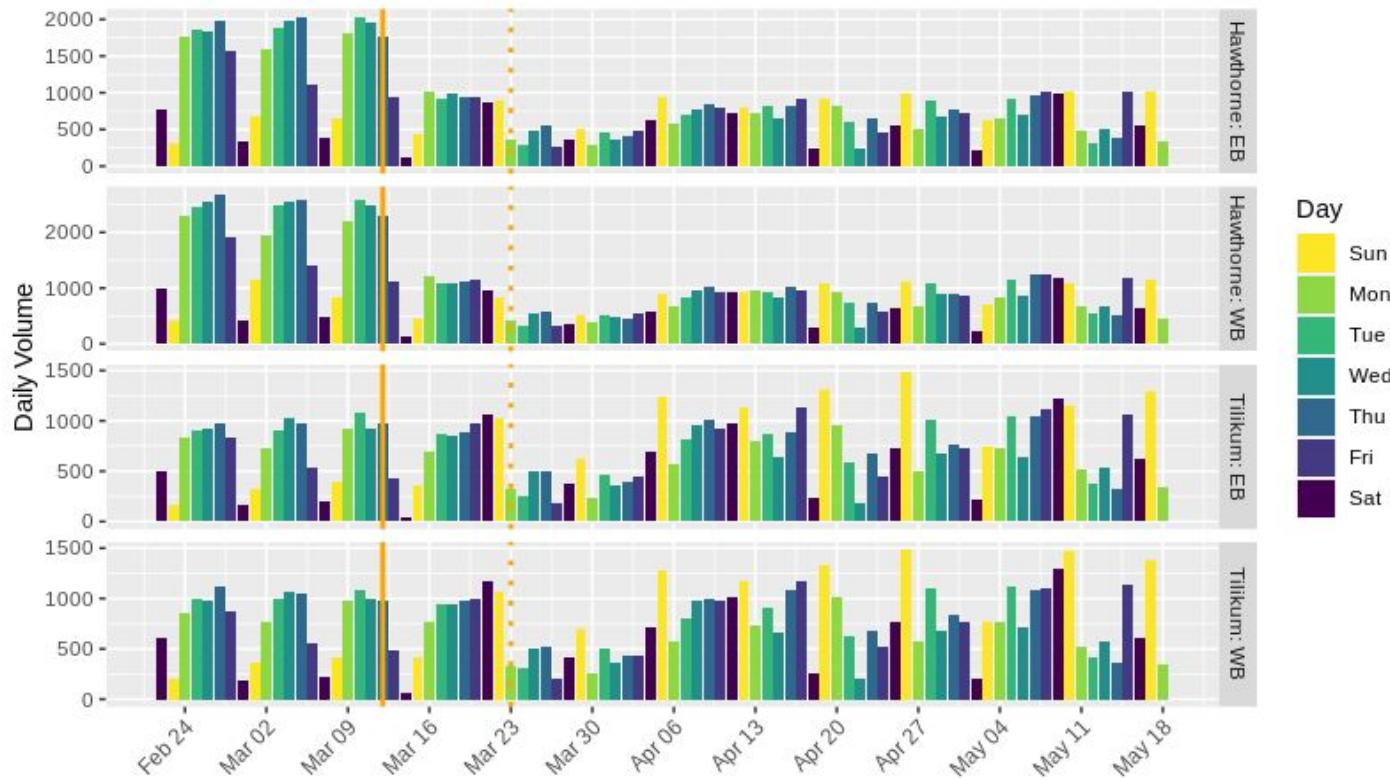
(reference week: Feb 22)



Daily bicycle volume: Hawthorne and Tilikum

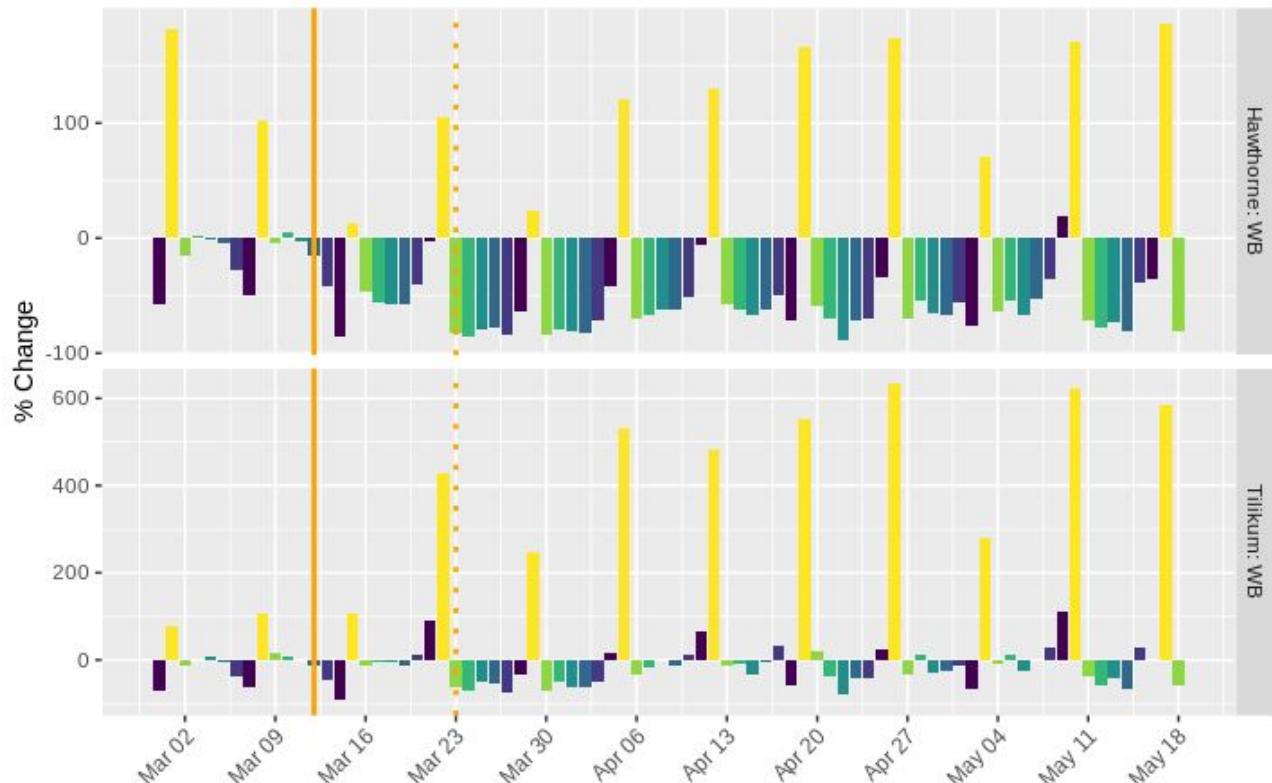


Daily bicycle volume: Hawthorne and Tilikum



% change daily volume: Hawthorne & Tilikum (WB)

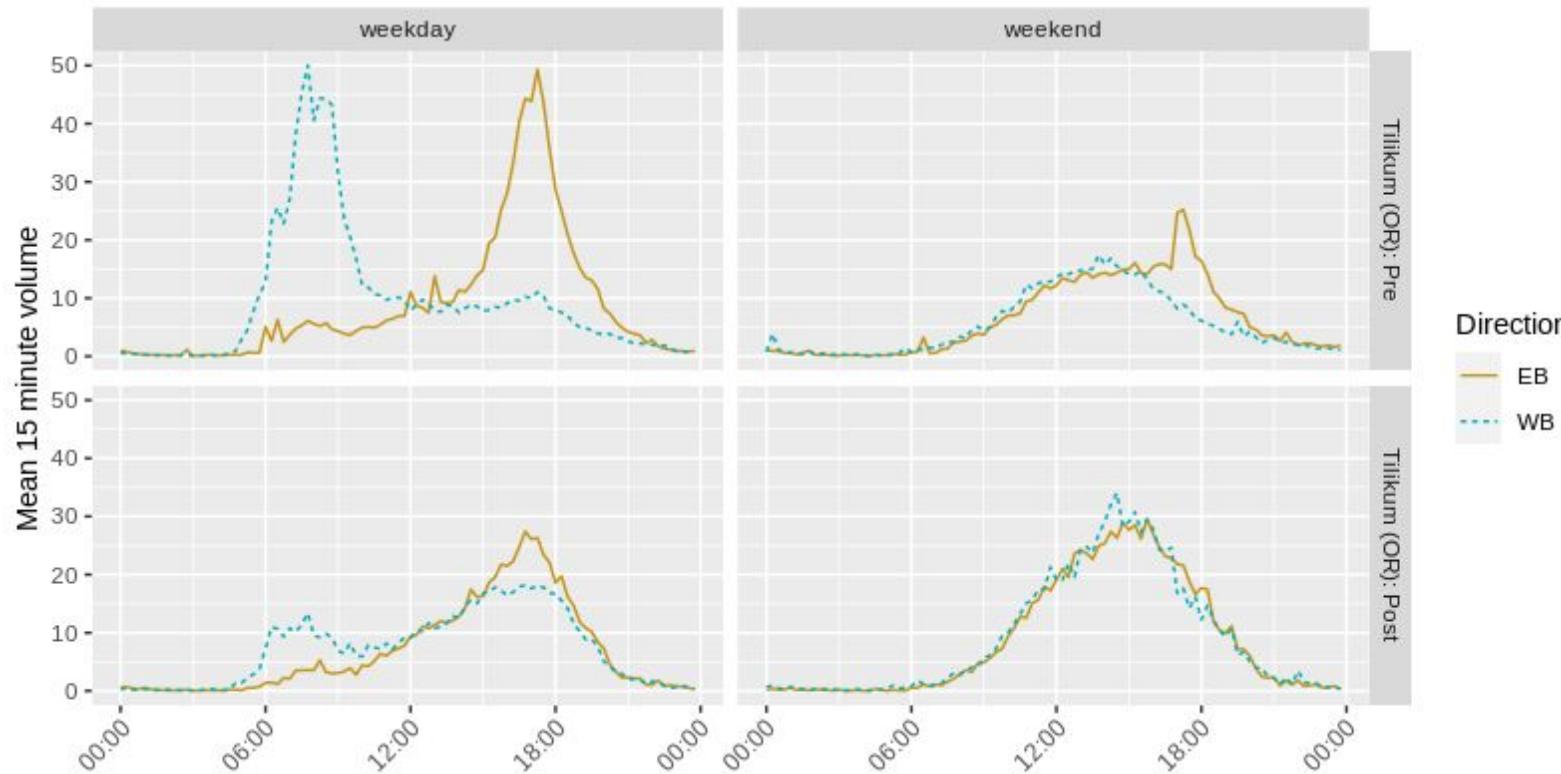
(reference week: Feb 22)



Weekday v. weekend: Tilikum Pre & Post

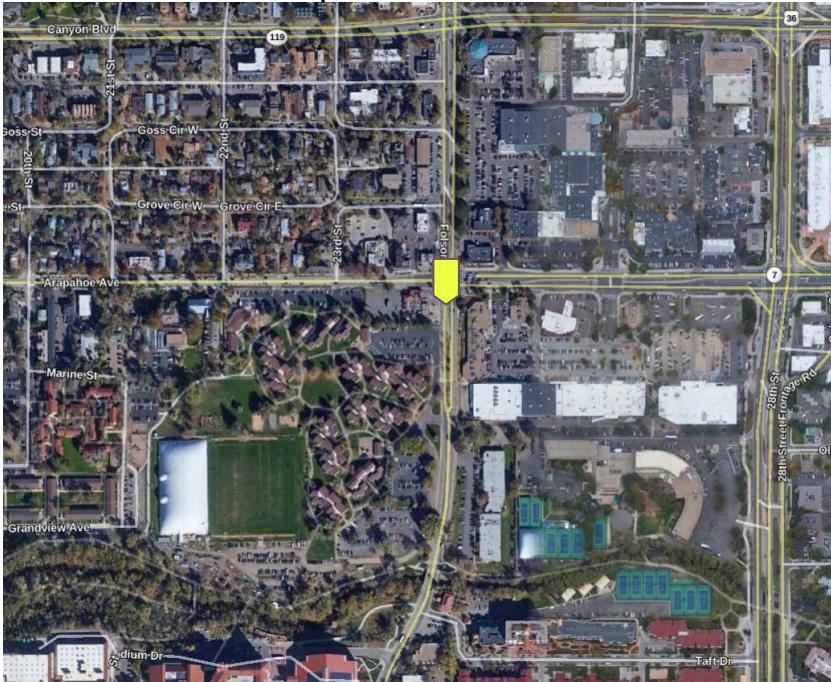
Pre: 2019-01-01 through 2020-03-11

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

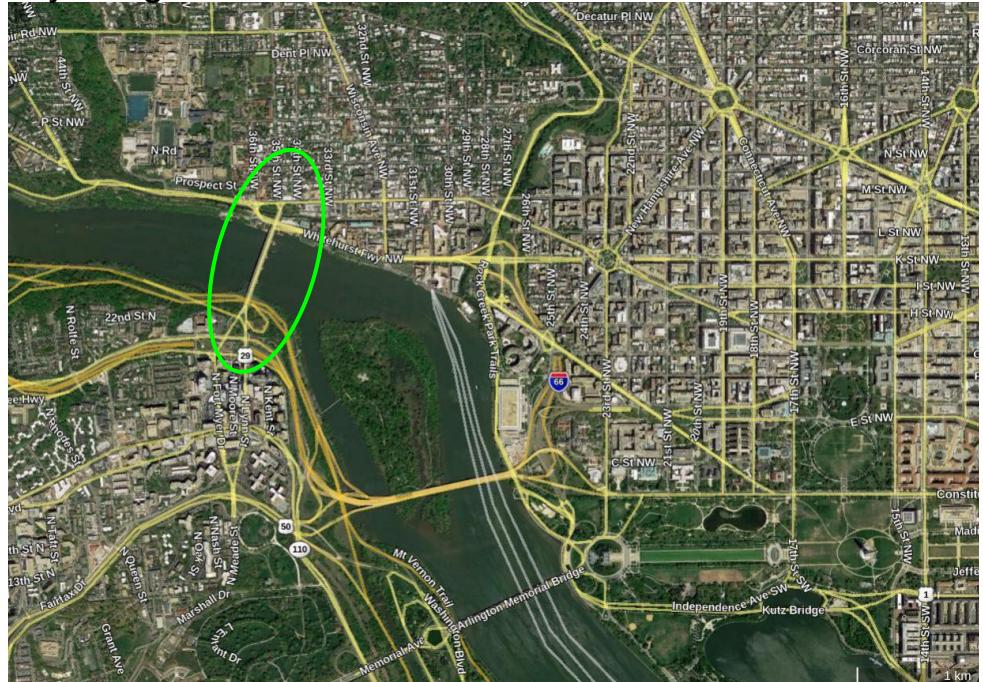


Folsom St S of Arapahoe Ave (CO) & Key Bridge (VA)

Folsom St S of Arapahoe Ave



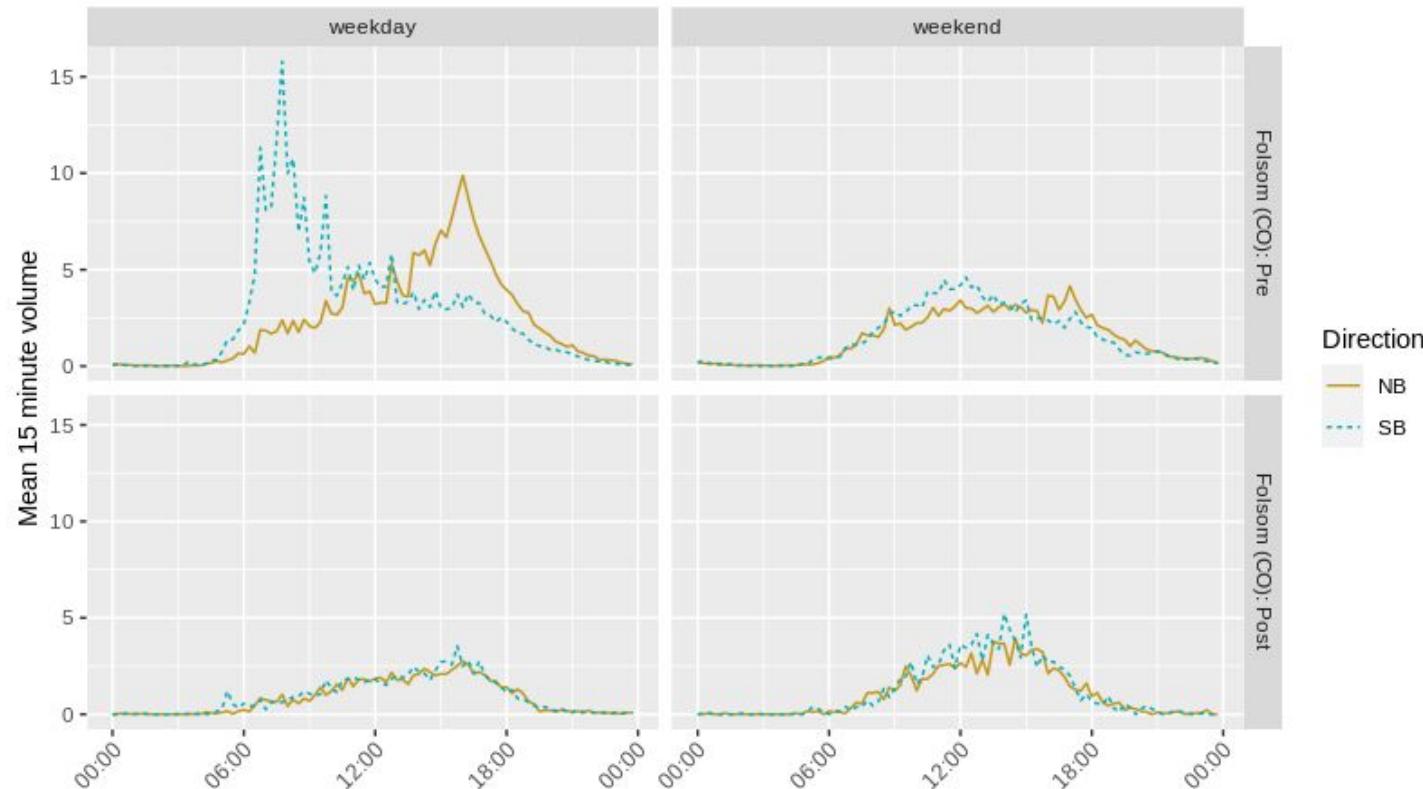
Key Bridge



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

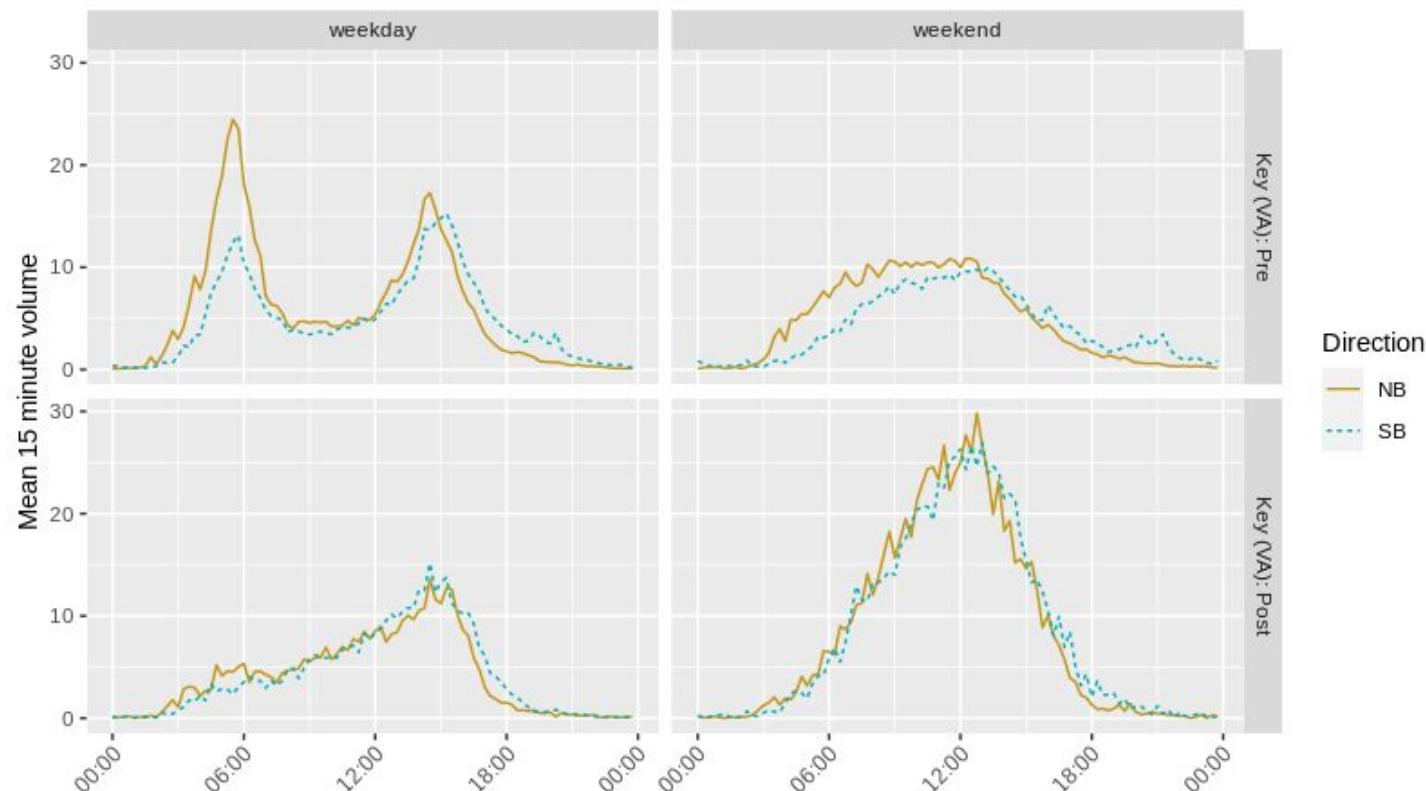
Pre & Post



Weekday v. weekend: Key Bridge Pre & Post

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

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





Questions?

- PORTAL: portal.its.pdx.edu
- Contact info: askportal@pdx.edu
- PORTAL Documentation site: adus.github.io/portal-documentation/
- TREC: trec.pdx.edu