

# The Civic Platform Transportation API

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## Dataset Overview

## passenger-census

- ▶ Ridership data
- ▶ Covers March 2001 through February 2018
- ▶ Lists totals of ons and offs for each stop by service key
  - ▶ Totals over six months
  - ▶ W = weekday
  - ▶ S = Saturday
  - ▶ U = Sunday

## trimet-stop-events

- ▶ Raw data - samples of all vehicle data every five seconds!
- ▶ Large - about 10 gigabytes per month!
- ▶ TriMet gave us five months of data:
  - ▶ September 2017
  - ▶ October 2017
  - ▶ November 2017
  - ▶ April 2018
  - ▶ May 2018
- ▶ Only a subset hosted in the API

## origin-destination

- ▶ Census Bureau data on commuting
- ▶ Covers 2002 through 2015
- ▶ Covers entire Portland - Vancouver metro area
- ▶ Very detailed - only a subset is hosted in the API

## Other datasets in the Transportation Systems API

- ▶ PUDL: locations of traffic sensors for the Portland Urban Data Lake (PUDL)
- ▶ biketown: public data dump from Biketown
- ▶ multnomah-county-permits: permit data from Multnomah county outside city limits
- ▶ odot-crash-data: crashes in Portland from 2004 - 2014
- ▶ safety-hotline: calls / texts / emails to the safety hotline

## Browsing the API

## “Swagger UI”

- ▶ Browse to <http://service.civicpdx.org/transportation-systems/>
- ▶ Scroll down



# Swagger UI home page

<b>PUDL</b>	> 
<b>biketown</b>	>
<b>multnomah-county-permits</b>	>
<b>odot-crash-data</b>	>
<b>origin-destination</b>	>
<b>passenger-census</b>	>
<b>safety-hotline</b>	>
<b>sandbox</b>	>
<b>trimet-stop-events</b>	>

# Click on passenger-census to expand

## passenger-census



GET

</transportation-systems/passenger-census/> This viewset will provide a list of individual Passenger Census counts by TRIMET.

GET

</transportation-systems/passenger-census/census-block/change/> This viewset will provide a list of individual Passenger Census counts by TRIMET.

GET

</transportation-systems/passenger-census/census-block/oregon/polygons/> This viewset will return Geojson for Census Blocks in Portland Metro Area within Oregon

GET

[/transportation-systems/passenger-census/census-block/oregon/polygons/{census\\_block}/](/transportation-systems/passenger-census/census-block/oregon/polygons/{census_block}/) This viewset will return Geojson for Census Blocks in Portland Metro Area within Oregon

GET

</transportation-systems/passenger-census/census-block/totals/> This viewset will provide a list of individual Passenger Census counts by TRIMET.

GET

</transportation-systems/passenger-census/census-block/washington/polygons/> This viewset will return Geojson for Census Blocks in Portland Metro Area within Washington

GET

[/transportation-systems/passenger-census/census-block/washington/polygons/{census\\_block}/](/transportation-systems/passenger-census/census-block/washington/polygons/{census_block}/) This viewset will return Geojson for Census Blocks in Portland Metro Area within Washington

GET

</transportation-systems/passenger-census/census/info/> This viewset will provide a info about the Passenger Census by TRIMET.

GET

</transportation-systems/passenger-census/national/ridership/> This viewset will provide a list of annual national transportation ridership counts based on Transit Report's report: <http://tram.mcgill.ca/Research/Publications>

# Click on the first GET to expand

### passenger-census



GET

/transportation-systems/passenger-census/ This viewset will provide a list of individual Passenger Census counts by TRIMET.

This viewset will provide a list of individual Passenger Census counts by TRIMET.

#### Parameters

Try it out

Name

Description

limit

integer

(query)

Number of results to return per page.

offset

integer

(query)

The initial index from which to return the results.

#### Responses

Response content type

application/json



Code

Description

# Click on Try it out and enter 10 for limit

### passenger-census



GET

/transportation-systems/passenger-census/ This viewset will provide a list of individual Passenger Census counts by TRIMET.

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#### Parameters

Cancel

Name

Description

limit

Number of results to return per page.

integer  
(query)

10

offset

The initial index from which to return the results.

integer  
(query)

offset - The initial index from which to r

Execute

#### Responses

Response content type

application/json

Download

## Passenger Census Data

## TriMet Stop Events Data

TBD



## Origin-Destination Data

## Source

- ▶ Census Bureau Longitudinal Employer-Household Dynamics (LEHD)
  - ▶ <https://lehd.ces.census.gov>
- ▶ LEHD Origin-Destination Employment Statistics (LODES)
  - ▶ <https://lehd.ces.census.gov/data/#lodes>
- ▶ LODES 7.3 Technical Documentation
  - ▶ <https://lehd.ces.census.gov/data/lodes/LODES7/LODESTechDoc7.3.pdf>

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More TBD