



Portal Documentation: 2020 Refresh

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PORTAL: User Documentation

adus.github.io/portal-documentation/documents/gettingstarted

At the start of this project, the PORTAL documentation included:

- Downloading data manually via the website (portal.its.pdx.edu)
- Accessing PORTAL data through tools on the website

Did not cover:

- Using the API in any way.

Getting Started With the Portal API

```
http://new.portal.its.pdx.edu:8080/{endpoint}
```

endpoint	description
/highways/api/freewaydata	Highway speed and volume data
/highways/api/stationsmetadata	Highway station metadata
/highways/api/detectormetadata	Highway detector metadata
/highways/api/highwaymetadata	Highway metadata
/traveltime/api/aggregatedsegmentcalcs	Travel times along highways by segment
/traveltime/api/segmentcalc	Raw travel time data
/traveltime/api/seginventory	List of segments for travel time calculations
/traveltime/api/dcuinventory	Bluetooth Data Collection Unit metadata
/freight/api/aggregatedbindata	Freight data based on vehicle length metrics
/arterial/api/voyagevolume	Traffic volume data for arterial routes in Portland
/transit/downloadquarterlydata	Download zipped Trimet data for specified quarter

- More approachable landing page
- Base URL and list of endpoints
- Descriptions of non-API endpoint sidebar links
- “JSON disclaimer”

Example Endpoint – /freewaydata

Parameters

Freeway Data takes the following Parameters

Name	Required	Description	Type	Example
start_date	Yes	Beginning Date for Data Query	YYYY-MM-DD String	2020-08-11
end_date	Yes	End Date for Data Query	YYYY-MM-DD String	2020-08-11
days_of_week	No	Filter results by day of week. Sunday = 1, Saturday = 7	Integer	1
highway_id	No	Integer value of any given highway ID	Integer	54
resolution	No	URL encoded time value used to divide data points	URL Encoded String	00%3A15%3A00
format	No	File format. Acceptable values are CSV or JSON	String	CSV

Example Request

```
http://new.portal.its.pdx.edu:8080/highways/api/freewaydata/?start_date=2020-05-10&end_date=2020-05-16&days_of_week=2&days_of_week=5&highway_id=3&format=csv
```

- Endpoint overview
- List of Parameters, including type of data, example of valid input, and required/optional status.
- Example Request
- Example Response, presented in CSV format

Highways

Highway data can be downloaded from this section by selecting the start and end date of interest, days of week, format, highway of interest, and temporal resolution. Multiple highway sections can be downloaded at once by holding the ctrl key and clicking on the desired highway in the Highway menu.

The following data are provided:

Name	Description	Type	Example
starttime	Starting time of the data	Date/Time Formatted String	2020-05-11T00:00:00-07:00
resolution	Temporal Resolution of the data	Time Formatted String	01:00:00
detector_id	Detector ID along selected route	Integer	100907
speed	Average speed of vehicles passing the detector	Float	59.0
volume	Number of vehicles per hour which pass the detector	Integer	16
occupancy	Percentage of time cars are being detected	Float	.88
countreadings		Integer	28
delay	Vehicle Hours Traveled, minus the time it would take a vehicle to travel at the maximum permitted speed on a segment	Float	0.01
traveltime	The average amount of time for a vehicle to travel through a segment	Float	0.4
vht	Vehicle Hours Traveled - the total hours traveled within a segment by all vehicles	Float	0.11
vmt	Vehicle Miles Traveled - the total miles traveled on a segment by all vehicles	Float	6.24

General Information: Downloads

For each dataset available through the API (or on the website), this page provides the following.

- Attribute name
- Description of attribute
- Data type of attribute
- Example data for each attribute
- Additional information about the usage of the dataset may be provided as well, following the table.

Feedback:

Submit an issue on the Portal–Documentation GitHub repo:

<https://github.com/adus/portal-documentation/issues>

Or contact us via email at:

askportal@pdx.edu