

Single degree of freedom bridge analyses using synthetic Cascadia Subduction Zone ground motions Dataset

Dataset available at: <https://doi.org/10.7910/DVN/TMZW2P>

(This dataset supports report **Assessment of Washington State Bridges for Post-Earthquake Mobility and Recovery Planning**)

This U.S. Department of Transportation-funded dataset is preserved by the Pacific Northwest Transportation Consortium (PacTrans) is the Regional University Transportation Center (UTC) for Federal Region 10 in the digital repository Harvard Dataverse (<https://dataverse.harvard.edu>), and is available at <https://doi.org/10.7910/DVN/TMZW2P>

The related final report **Assessment of Washington State Bridges for Post-Earthquake Mobility and Recovery Planning**, is available from the National Transportation Library's Digital Repository at <https://rosap.ntl.bts.gov/view/dot/60314>.

Metadata from the Harvard Dataverse Repository record:

Dataset Persistent ID: doi:10.7910/DVN/TMZW2P

Publication Date: 2021-10-27

Title: Single degree of freedom bridge analyses using synthetic Cascadia Subduction Zone ground motions

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Description: The dataset contains the OpenSEES model codes, synthetic Cascadia subduction zone ground motions, single degree-of-freedom analysis results, and Excel workbook for processing data used to write the PacTrans final report. All pertinent figures derived from the data were presented in the body of the report or the report Appendix. (2021-08-31)

Subject: Engineering

Keyword: Cascadia subduction zone, Bridges

Related Publication: PacTrans Final Report "Assessment of Washington State Bridges for Post-Earthquake Mobility and Recovery Planning"

Notes: Additional data available upon request, contact pactrans@uw.edu

<http://hdl.handle.net/1773/47854>

Depositor: Yarbrough, Christina

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Dataset description:

This dataset contains 1 file collection, described below.

Assessment of Washington State Bridges for Post-Earthquake Mobility and Recover Planning_Data.zip

- State_Route_Database_and_Functionality.xlsx
- SDOF_IMK.col.tcl

National Transportation Library (NTL) Curation Note:

As this dataset is preserved in a repository outside U.S. DOT control, as allowed by the U.S. DOT's Public Access Plan (<https://doi.org/10.21949/1503647>) Section 7.4.2 Data, the NTL staff has performed *NO* additional curation actions on this dataset. NTL staff last accessed this dataset at <https://doi.org/10.7910/DVN/TMZW2P> on 2022-04-21. If, in the future, you have trouble accessing this dataset at the host repository, please email NTLDataCurator@dot.gov describing your problem. NTL staff will do its best to assist you at that time.