

PUGET SOUND REGIONAL TRAVEL STUDY 2014

Public Release 3

June 29, 2015

This is a revised version of the data first released to the public on December 5, 2014. Release 1 was the culmination of 3 months of data cleaning and enhancement. Although a lot more work was needed to be done, the database was released at that time so researchers and jurisdictions could begin to get a sense of what the data looked like and produce some preliminary results.

Public Release 2 has further changes and corrections made to the data, primarily the trip data. The major enhancement to this version is the linking of trips that constitute a single trip chain. (see Trip Linking below). Also, six households have been deleted from the database because of bad data, and five diaries (all in the same household) have been removed from the trip data because their diaries recorded no actual trips.

Public Release 3 has further corrections as well as several enhancements. The corrections involve errors introduced in Release 2 – primarily trips that were improperly linked – and errors that were previously overlooked. There were few of the latter and have little effect on any results.

A major change to the Release data involves the transit access and egress modes (MODE_ACC/MODEEGR). Several hundred values of '7' (Other) were changed based on the trip context. In most cases then change was to 'Walk'.

There have been a number of enhancements to the data. These are summarized in the Change Log below.

The structure of the database is essentially the same as in Release 2. It has the same five data files, with the 'pr2' in their names changed to 'pr3'.

FILES

Household The Household data is split into two tabs. The first, *Data*, has the actual responses from the primary respondent about household characteristics. The second, *Metadata*, has information about incentives and how the on-line survey was taken, including platform and language. There are 6,036 records.

Vehicle Each vehicle in a household has a record. Households with no vehicles have no record in this file. There are 9,453 records.

Persons There is a record for each person in the household, and the file is split into two tabs. The first, *Data*, has the actual responses from each respondent or proxy about person characteristics and responses to attitude questions. The second, *Metadata*, has information about how the on-line survey was taken by the respondent or proxy, including platform and language. There are 12,198 records.

Trips Each record corresponds to a trips recorded by the respondent or proxy during the target survey day. If a person took no trips on the target day, that person has no record in the Trip file but does in the Persons file. There are 47,919 records.

Codebook This is the data dictionary for the data files. It has separate tabs for each of the four files along with tabs for the household and person metadata. It also has look-up tables for the Park & Ride lots and transit lines fields in the Trip data.

The Following PDF files were also included with Release 1:

2014-Household-Survey-Dataset-Guide This document provides additional explanation for the Travel Study datasets beyond the codebook. It was written to accompany the original data collected and processed by the project consultants and do not include subsequent enhancements to the data or report current number of records in each file.

2014-Household-Survey-Tech-Memo This is the consultant report and includes sections on the study objectives, sampling plan, and survey administration.

2014-Household-Survey-weighting-process This is the consultant report on the data weighting process. Release 1 had weights based on the original data files provided by the consultant. Release 2 has revised weights based on the current list of households.

2014-Household-Survey-weighting-process-summary A summary of the weighting process.

Comparison of 1999-2014 Regional Travel Surveys Summary and comparison of results from PSRC's 1999, 2006 and 2014 surveys.

Survey Instrument The on-line questionnaire.

CHANGES TO THE DATA

Household

The only significant change to the data from Release 2 is the addition of geographic identifiers to the household location and previous location. These include city and zip, derived from the the original respondent input, and Census Tract, block group, and PUMA (all 2010 vintage), and Regional Growth Center where that is relevant.

Person

The only significant change to the data from Release 2 is the addition of geographic identifiers to the workplace, school and previous workplace location. These involve the same identifiers as listed in the Household section above.

Trip

There are 32 more records than in Release 2. This is the result of a number of trips that were linked in the previous release where determined not to be linked and thus the original trips were restored. A number of other, unlinked, trips were missed in the original linking process and are now linked. The net result in the two editing processes is 32 more trips.

Otherwise there are few changes to the data from Release 2. Most of the changes that were made involve the PURPOSE field and most of those involved incorrectly assigning the overall purpose to linked trips.

There are a number of additions to the file. The same geographic identifiers as in the Household and Person files were added for the trip origins and destinations. There are also several fields added that correspond to the 2006 Household Activity Survey. These are:

- TRIPTYPE. Trips categorized as Home-based Work, Home-based Other, or Non-home Based.
- MODE2. Modes collapsed into seven categories, including auto-transit combination.
- MODE3. Modes collapsed into 5 categories.
- MMODE. Modes collapsed into 9 categories, including two HOV modes (2 and 3+) and transit walk-access and transit auto-access.
- TIME_CAT. 24 hour categories based on trip starting time.
- TIME_DAY. Trip starting time by Peak/Off-Peak periods.
- MTIME. Time of the mid-point of a trip $(TIME_END - TIME_START / 2)$.
- MTIME_CAT. 24 hour categories based on mid-point of trip.
- MTIME_DAY. Trip mid-point by Peak/Off-Peak periods.

- DISTCAT. Trip distance collapsed into 11 categories.

CHANGES INTRODUCED IN RELEASE 2:

Data Fields Two new fields were added to Release 2:

- num_trips_linked A numeric field that records the number of trips linked together into a single trip chain. The values range from 2 to 6.
- combined_modes A single string that lists the modes of each link in the trip chain. Each mode value is separated by a hyphen ('-').

Trip Linking In many cases, respondents reported each link of a trip individually, such as reporting the walk trip (no matter how short) to get to a bus stop, or if taking two or more modes to get to a destination, reporting each trip mode separately. To get a more accurate reporting of mode split and trip averages, we linked together trips we identified as parts of a single trip to the respondent's destination. For more discussion of trip linking, see

2014-pr2-hhsurvey-trip-linking-notes.pdf.

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