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To: Ruegg, Steven
CC: Fujioka, Heather; Wellander, Chris A.; Scheibe, Mark; Jim Ryan (fta) (james.ryan@dot.gov)
Sent: 4/11/2006 3:52:48 PM
Subject: Honolulu Mode Choice Model Coefficients
Attachments: mode choice coefficients.xls

Attached is a spreadsheet containing an analysis of the existing mode choice model coefficients. From a review of these coefficient values, a number of important observations become apparent:

- The wait time coefficients do not differentiate between 1st and transfer wait, nor the two individual components for the 1st wait. More importantly, the ratio of wait time to in-vehicle time are all between 3 and 4. Well above normal standards.
- The LogSum, or nesting coefficients, are generally higher than generally acceptable levels.
- The value of a transfer (expressed in equivalent in-vehicle minutes of time) are logical.
- The value of time for Home-Based Work seems reasonable, although it should be verified based upon the regional mean income for the base year.

In the lower half of the spreadsheet, I have developed a set of recommended coefficient values for each of the purposes. Based upon the following assumptions:

- The Home-Based Work value of time is \$3.58
- The basic out-of-vehicle to in-vehicle ratio should be 2.0
- The value of a transfer remains as originally specified.
- 1st wait time has been decomposed into two separate values with a breakpoint of 5 minutes.
- All of the LogSum coefficients have been set to a conservative value of 0.5.

Please move forward with these values. Jim will not be in the office until next Monday. But hopefully, he can provide comments on Monday.

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