

# Input Data

## Global Data

### Mode Choice

- Added input files regarding new bus speed ratios
  - Added 'bus\_speed\_ratios.csv' – file containing the bus speed factors read in by the model
  - Added '\_source - bus\_speed\_ratios.xlsx' – source file for bus speed ratios csv

### Update Transit Speed Factors

The factors to calculate bus speeds from congested auto speeds from the distribution loaded network were re-estimated based on Aug-Nov 2019 GTFS data from UTA. The functional groups were redefined and expanded to include area type as well as peak and off-peak. Figure 1 shows the previous bus speed factors and Figure 2 shows the new bus speed factors used in this model version.

### Assignment

- Added lookup table & source file for diurnal and PA parameters (corresponding factors were removed from the '0GeneralParameters.block' file)
  - 'Diurnal & PA factors.csv'
  - \_source - Diurnal & PA factors.xlsx'
- The 'Diurnal & PA factors.csv' was updated

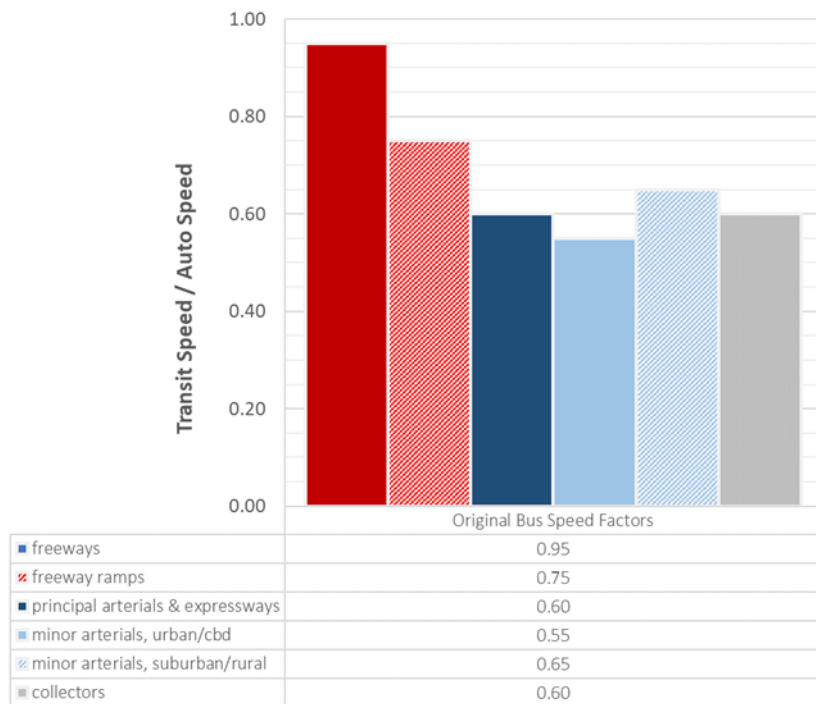


Figure 1: Previous Bus Speed Factors.

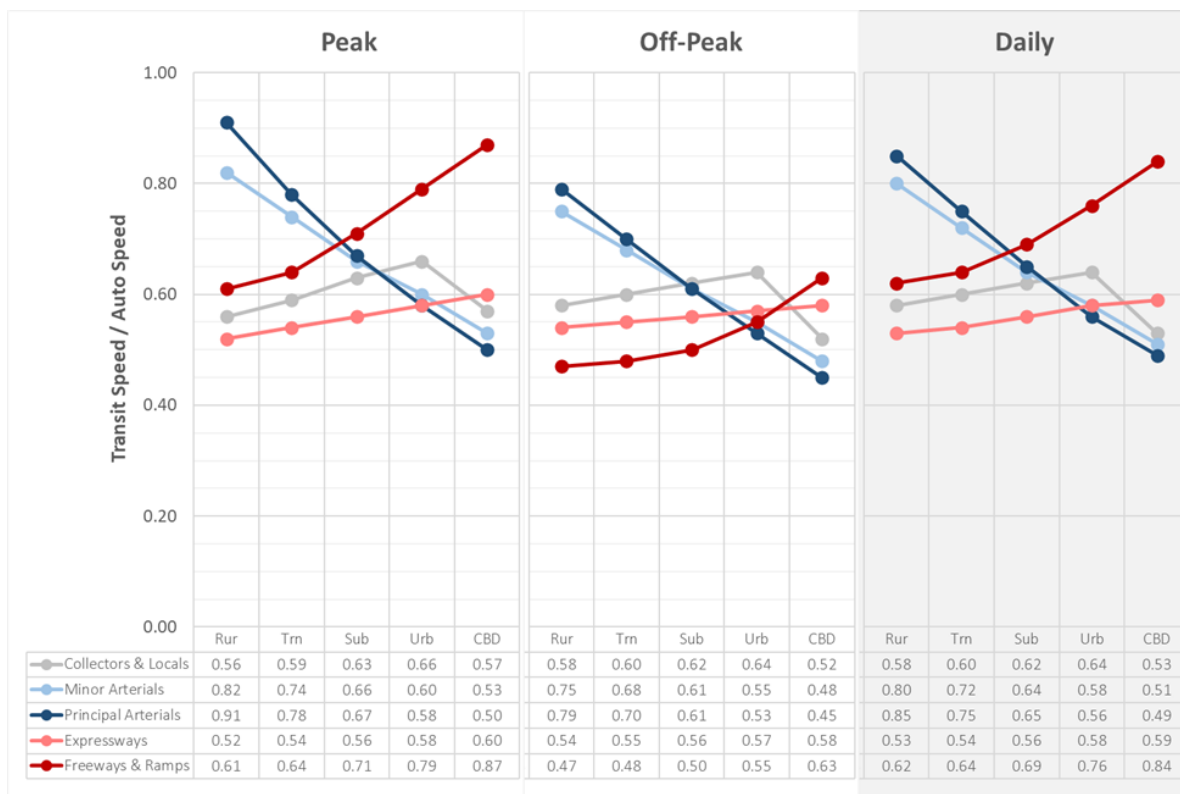


Figure 2: New Bus Speed Factors.

## Highway Network

### Dated Updates

#### MergedMasterNet - 2022-10-11

- Phase change for Managed Motorways in WFRM area
- A couple of phasing updates from the WFRM RTP project list
- Cleaned up GIS23\_32 & GIS23\_42 fields
- Differentiated what projects will be built by 2028 from what will be built by 2023

## Externals

### External Matrices from USTM

The external matrices from USTM were updated:

- Replaced AM, MD, PM, EV & DY external matrices from USTM's subarea extraction process for the following years:
  - 2015 – copied DY matrix from 2019
  - 2019
  - 2023 – copied DY matrix from 2019
  - 2028 – copied DY matrix from 2032
  - 2032
  - 2042
  - 2050
- USTM version used: 'USTM\_v3.0 - 2022-09-15' which included TAZ, MasterNet, SE & loaded nets from 'WF TDM v9.0 - 2022-10-05'