General Parameters

K-Factors

The following K factors were adjusted as calibration adjustment factors to reduce non-work trips:

Between Salt Lake and Utah counties - SL_UT_KFAC_Wrk = 1.00 - SL_UT_KFAC_Oth = 1.00 - SL_UT_KFAC_Trk = 1.00 - SL_UT_KFAC_Ext = 1.00

Between Salt Lake and Davis counties - SL_DA_KFAC_Wrk = 1.00 - SL_DA_KFAC_Oth = 1.00 - SL_DA_KFAC_Trk = 1.00 - SL_DA_KFAC_Ext = 1.00

Between Box Elder and Weber counties - WE_BE_KFAC_Wrk = 1.00 - WE_BE_KFAC_Oth = 1.00 - WE_BE_KFAC_Trk = 1.00 - WE_BE_KFAC_Ext = 1.00

Zone Parameters

- Updated following TAZ & highway node references:

  - UsedZones = 3629
  - BoxElderRange = '1-153'
  - WeberRange = '154-581'
  - DavisRange = '582-905'
  - SLRange = '906-2216'
  - UtahRange = '2217-3546'
  - Dummyzones = '3547-3600'
  - Externalzones = '3601-3629'
  - NorthBC = '3604,3605,3606'
  - HwyNodes = '10000-99999'

- Updated colleges/universities node references:

  - Colleges = '437, 521, 693, 959, 979, 1007, 1029, 1051, 1085, 1231, 1263, 1491, 1525, 1580, 1776, 1886, 2031, 2606, 2809, 2848, 2882, 2939, 3336'
  - LDSBC = 1029
  - WESTMIN = 1263

- UOFU_Main = 1051
- UOFU_Med = 1007
- WSU_OGDEN = 437
- WSU_DAVIS = 693
- WSU_WEST = 521
- SLCC_TL = 1580
- SLCC_SC = 1231
- SLCC_JD = 1776
- SLCC_Mead = 1491
- SLCC_ML = 1886
- SLCC_LB = 1085
- SLCC_HL = 1525
- SLCC_Airp = 979
- SLCC_West = 959
- SLCC_HM = 2031
- BYU = 2939
- UVU_MAIN = 2848
- UVU_GENEVA = 2882
- UVU_THANKP = 2606
- UVU_VINE = 2809
- UVU_PAYSON = 3336
- Lagoon = 781
- Airport = 965
- TempleSquare = 1035
- SLC_Library = 1147

- Removed following variables:

  - RegionRange
  - WFRCRange
  - MAGRange

County Identification

- Removed this entire section containing the following variables:

  - CountyRange
  - CountyName1
  - CountyName2
  - CountyName3
  - CountyName4
  - CountyName5
  - CO_Name1

- – CO_Name2
- – CO_Name3
- – CO_Name4
- – CO_Name5

AQ conformity reports are broken down by each county and 3 cities

- Removed this entire section containing the following variables:
  - – RE_ID
  - – WE_ID
  - – DA_ID
  - – SL_ID
  - – UT_ID
  - – BE_ID
  - – OC_ID
  - – SC_ID
  - – PC_ID

Special Trip Table Script Parameters

- Updated income break points to 2019 ACS data
  - – Income_Lo = 45000
  - – Income_Md = 75000
  - – Income_Hi = 125000

Household Disaggregation Information

- Updated regional median income:
  - – Reg_Median_Inc = 74946
  - – from 2019 5-year ACS, in 2019 dollars
  - – represents average for just WF region

Distribution, Mode Choice & Assignment Parameters

Auto Occupancy

- Renamed the following variables (scripts were also udpated) and updated values:

Table 1: Renamed Auto-Occupancy Variables

Previous Name	New Name	New Value
VEH_OCCUPANCY_HBW	VehOcc_HBW	1.1
VEH_OCCUPANCY_HBSHP	VehOcc_HBShp	1.63
VEH_OCCUPANCY_HBOTH	VehOcc_HBOth	1.68
VEH_OCCUPANCY_HBSCH	VehOcc_HBSch	1.76
VEH_OCCUPANCY_HBC	VehOcc_HBC	1.12
VEH_OCCUPANCY_NHBW	VehOcc_NHBW	1.21
VEH_OCCUPANCY_NHBNW	VehOcc_NHBNW	1.76
	VehOcc_Rec	1.68
VEH_OCCUPANCY_HBO	VehOcc_HBO	1.67
VEH_OCCUPANCY_NHB	VehOcc_NHB	1.54
	VehOcc_ExtWrk	1.16
	VehOcc_ExtHBO	1.82
	VehOcc_ExtNHB	1.73
	VehOcc_ExtRec	1.73
VEH_OCC_3P_HBW	VehOcc_3p_HBW	3.53
	VehOcc_3p_HBShp	3.49
	VehOcc_3p_HBOth	3.73
	VehOcc_3p_HBSch	3.88
VEH_OCC_3P_HBC	VehOcc_3p_HBC	3.24
	VehOcc_3p_NHBW	3.71
	VehOcc_3p_NHBNW	3.71
	VehOcc_3p_Rec	3.73
VEH_OCC_3P_HBO	VehOcc_3p_HBO	3.68
VEH_OCC_3P_NHB	VehOcc_3p_NHB	3.71

- Auto occupancy parameters were updated based on 2012 Household Travel Survey (reprocessed)
- Values represent average persons per vehicle for just the Wasatch Front model space
- External trips (Ext) are average for IX + XI, all other parameters are averages for II trips

Value of Time

- Updated value of time (VOT):

- VOT_Auto_Wrk = 22
- VOT_Auto_Per = 17
- VOT_Auto_Ext = 20
- VOT_LT = 37
- VOT_MD = 50
- VOT_HV = 63
- VOT_Toll = 63
- VOT_HOT_DA = 63

- Added following variables:

  - VOT_Auto_Wrk_Lo = 9
  - VOT_Auto_Wrk_Hi = 24
  - VOT_Auto_Per_Lo = 7
  - VOT_Auto_Per_Hi = 19

Auto Operating Costs

- Updated auto operating cost (AOC) based on 2019 fuel cost & economy and vehicle maintenance

  - AOC_Auto = 21.7
  - AOC_LT = 27.3
  - AOC_MD = 55.5
  - AOC_HV = 74.3

Toll and HOT Costs

- Updated toll (FT=40) cost (cent/mile) parameter to reflect a toll of approximately \$5.00 for a 10.25 mi trip (average work distance) or \$3.00 for a 6.5 mi trip (average trip distance of all trips) in 2019 dollars

  - Cost_Toll_Pk = 48
  - Cost_Toll_Ok = 48

- Updated HOT (FT=38) cost (cent/mile) parameter to reflect a toll of approximately \$3.50 for a 10.25 mi trip (average work distance) or \$2.20 for a 6.5 mi trip (average trip distance of all trips) in 2019 dollars

  - Cost_HOT_Pk = 34
  - Cost_HOT_Ok = 17

Prefix for Transit Skims

- Replaced all transit skim prefix global variable tokens with values in scripts
- Removed transit skim prefix variables from 0GeneralParameters.block file

Other

- Updated comments and cleaned up formatting
- Change RAIL2COR_MULTIPLIER from 0.40 to 0.33