

Version 9.0.0 - What's New?

WFRC / MAG

General Parameters

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
 - WFRCRRange
 - 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 updated) 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

Previous Name	New Name	New Value
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 (re-processed)
- 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
 - $\text{AOC_Auto} = 21.7$
 - $\text{AOC_LT} = 27.3$
 - $\text{AOC_MD} = 55.5$
 - $\text{AOC_HV} = 74.3$

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
 - $\text{Cost_Toll_Pk} = 48$
 - $\text{Cost_Toll_Ok} = 48$
- 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
 - $\text{Cost_HOT_Pk} = 34$
 - $\text{Cost_HOT_Ok} = 17$

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