



MEMORANDUM

TO: Mark S. Moran, Program Director, Travel Forecasting and Emissions Analysis, COG/TPB
Feng Xie, Manager, Model Development, COG/TPB

FROM: Meseret Seifu, Principal Transportation Engineer, COG/TPB

SUBJECT: Transmittal Package: TPB Gen2/Ver. 2.4.6 Travel Demand Forecasting Model, Transportation Networks, and Land Use Data Associated with the Air Quality Conformity Analysis of the 2022 Update to Visualize 2045

DATE: July 12, 2023

Xmittal_Ver2.4.6_model_and_inputs_v3.docx

PURPOSE

This memorandum documents a transmittal package containing the National Capital Region Transportation Planning Board (TPB) production-use travel demand forecasting model (Gen2/Version 2.4.6 Travel Model) and its associated input files (networks and land use data). The input data are from the Ver. 2.4 Model, which was used for the Air Quality Conformity (AQC) Analysis of the 2022 Update to Visualize 2045, a Long-Range Transportation Plan (LRTP) for the National Capital Region, and the FY 2023-2026 Transportation Improvement Program (TIP) and was adopted by the TPB as part of the AQC determination on June 15, 2022. The input data also reflects the corrections made to transit input files on November 14, 2022.¹

The TPB is staffed by the Department of Transportation (DTP), at the Metropolitan Washington Council of Governments (COG). The TPB staff updates its regional travel demand forecasting model on a regular basis. The Gen2/Version 2.4.6 Travel Model was derived from the Gen2/Version 2.4 Travel Model, which, in turn, was derived from the Gen2/Version 2.3 Travel Model. The Version 2.3 Model was originally calibrated and validated to year-2007 conditions.² It was later re-validated to both year-2010 and year-2014 conditions.^{3 4} The Ver. 2.4 Model was validated to year-2014 conditions, in 2020⁵ and to year-2018 conditions in 2021.⁶

¹ Meseret Seifu to Mark Moran and Feng Xie, "Transmittal Package: TPB Gen2/Ver. 2.4 Travel Demand Forecasting Model, Transportation Networks, and Land Use Data Associated with the Air Quality Conformity Analysis of the 2022 Update to Visualize 2045 with Revised Transit Networks", Memorandum, November 14, 2023.

² Ronald Milone et al., "Calibration Report for the TPB Travel Forecasting Model, Version 2.3, on the 3,722-Zone Area System," Final Report (Washington, D.C.: Metropolitan Washington Council of Governments, National Capital Region Transportation Planning Board, January 20, 2012), <https://www.mwcog.org/transportation/data-and-tools/modeling/model-documentation/>.

³ Ronald Milone to Files, "2010 Validation of the Version 2.3 Travel Demand Model," Memorandum, June 30, 2013, <https://www.mwcog.org/transportation/data-and-tools/modeling/model-documentation/>.

⁴ Feng Xie to Dusan Vuksan and Mark Moran, TPB staff, "Year-2014 Validation of TPB's Version 2.3 Travel Demand Model," Memorandum, March 12, 2019.

⁵ Meseret Seifu to Feng Xie, "Year-2014 Validation of TPB Version 2.4 Travel Model," Memorandum, October 29, 2020

⁶ Meseret Seifu and Sanghyeon Ko to Feng Xie, "Year-2018 Validation of TPB Version 2.4 Travel Model," Memorandum, August 17, 2021.

The TPB staff currently offers two production-use versions of the TPB regional travel demand forecasting model: Gen2/Ver. 2.4 and Gen2/Ver. 2.4.6. The Ver. 2.4 Model has been used in an air quality conformity (AQC) analysis, which has been adopted by the TPB, thus the model has been implicitly adopted by the TPB. By contrast, the Ver. 2.4.6 Model has not been used for an AQC analysis and thus has not been implicitly adopted by the TPB yet. Instead, the Ver. 2.4.6 Model is being released because TPB staff deem that it is ready for production use based on a comprehensive internal evaluation. Compared to the Ver. 2.4 Model, the Ver. 2.4.6 Model incorporates six major updates:

1. Migrated the transit walkshed process from ArcPy to GeoPandas.
2. Migrated the mode choice process from AEMS to TRANSIMS ModeChoice.
3. Updated the local bus speed/runtime degradation process. The updated process looks up the bus factors for both the current CPI year and modeled year (relative to 2015) and calculates the new bus degradation factors based on the original factors for both years.
4. Developed a process that would ensure that no row in the transit line files exceeds 144 columns.
5. Cleaned up the transit skimming/assignment report files.
6. Added an optional function to shut down the computer automatically after completing a model run, which can be useful when running the model on an on-demand cloud server, where cost is incurred based on time used.

Updates 1-3 have a marginal impact on model results, while Updates 4-6 do not change model results at all. As a result, the model outputs from the Ver. 2.4 Model and Ver. 2.4.6 Model are very comparable. Please see the travel model user's guide for more information.⁷

It is planned that the Ver. 2.4.6 Model will be used in the upcoming AQC analysis, i.e., the AQC analysis of Visualize 2050, which the TPB will review, and possibly adopt, in spring 2025.

CONTENT OF THE MODEL TRANSMITTAL PACKAGE

Model: The Gen2/Ver. 2.4.6 Travel Demand Forecasting Model is an aggregate, trip-based, “four-step” travel demand model covering a modeled area of 6,800 square miles and 3,722 Transportation Analysis Zones (TAZs). As noted earlier, the Ver. 2.4.6 Model is based on the Ver. 2.4 Model which was validated to year-2014 in 2020 and year-2018 conditions in 2021. The Ver. 2.4.6 Model is documented in an updated travel model user's guide.⁸

Transportation Networks: The AQC analysis of the 2022 Update to Visualize 2045 and the FY 2023-2026 TIP was conducted for six forecast years (**2021, 2023, 2025, 2030, 2040, and 2045**). In addition, the **2017** analysis year was included in the transmittal package to provide base-year network inputs with network adjustments/corrections that are consistent with forecast years, even though 2017 was not a year analyzed in the AQC analysis. Therefore, this transmittal package

⁷ Meseret Seifu, Ray Ngo, Feng Xie, and Mark S. Moran, “User's Guide for the COG/TPB Gen2/Version 2.4.6 Travel Demand Forecasting Model” (Washington, D.C.: Metropolitan Washington Council of Governments, National Capital Region Transportation Planning Board, July 13, 2023), <https://www.mwcog.org/transportation/data-and-tools/modeling/model-documentation/>.

⁸ “User's Guide, For the COG/TPB Gen2/Version 2.4.6 Travel Demand Forecasting Model (Washington, D.C.: Metropolitan Washington Council of Governments, National Capital Region Transportation Planning Board, July 13, 2023), <https://www.mwcog.org/transportation/data-and-tools/modeling/model-documentation/>.

includes transportation networks representing seven years. The latest networks report associated with this transmittal package can be found on the web.⁹

Land Use Data: TAZ-level land-use data from **Round 9.2** of COG's Cooperative Forecasting program. Employment data for some jurisdictions has been adjusted to ensure that a consistent definition is used across the entire modeled area. Details can be found in a recent memo.¹⁰

For quality control purposes, staff have executed all modeling scenarios twice, using the on-premises travel model server (TMS) and on-demand cloud-based Amazon Web Services (AWS), to ensure that the model results can be replicated. Staff has also updated the travel model user's guide, mentioned earlier, so that recent updates are explained.

The latest model and network documentation can generally be found on the following webpage: <https://www.mwcog.org/transportation/data-and-tools/modeling/model-documentation/>

A complete listing of all transit, highway and HOV/HOT projects assumed in the 2022 Update to Visualize 2045 plan and the FY 2023-2026 TIP can be found in Appendix B of the Air Quality Conformity report.¹¹ The projects are also displayed on an online interactive map on the COG website here: <https://www.mwcog.org/maps/map-listing/visualize-2045-project-map/>

To request the model and its associated inputs, interested parties should follow the procedures listed on COG/DTP's Data Requests webpage: <https://www.mwcog.org/transportation/data-and-tools/modeling/data-requests/>

The travel modeling inputs, and application files are organized in a structured subdirectory system shown in Table 1. The subdirectories are organized by Cube Voyager scripts, inputs, and supporting application files. As noted in the Ver. 2.4.6 Model user's guide, the Ver. 2.4.6 Model was developed and applied by COG/TPB staff on on-premises servers (TMS) and on on-demand cloud-based servers – Amazon Web Services (AWS) – using Cube Voyager version 6.4.1 and 6.5 CE, so it is generally recommended you use Cube 6.4.1 or 6.5 CE with the Ver. 2.4.6 Model. See the user's guide for more details. Cube Voyager software is available for purchase from Bentley Systems, Inc. Also, note that the model outputs are not included with this transmittal, due to their large size (about 10 to 25 GB per alternative), but specific output files may be made available upon request.

⁹ "Highway and Transit networks Used in the Air Quality Conformity Analysis of the 2022 Update to Visualize 2045 and the FY 2023-2026 TIP (Ver. 2.4 Travel Model)," (Washington, D.C.: Metropolitan Washington Council of Governments, National Capital Region Transportation Planning Board, June 15, 2022), <https://www.mwcog.org/transportation/data-and-tools/modeling/model-documentation/>.

¹⁰ Sanghyeon Ko to Feng Xie et al., "Developing Land Use Input Files for the Version 2.4 Travel Model Using Round 9.2 Cooperative Forecasts and the employment definition adjustment factors," Memorandum, June 7, 2021.

¹¹ Jane Posey, "Air Quality Conformity Analysis of the 2022 Update to Visualize 2045," Full Report (Washington, D.C.: National Capital Region Transportation Planning Board, Metropolitan Washington Council of Governments, June 15, 2022).

https://visualize2045.org/wp-content/uploads/2022/06/2022-Update-to-Visualize-2045-Air-Quality-Conformity-Analysis_FINAL_REPORT_June15_v2.pdf

Table 1 Version 2.4.6 Model Application Subdirectories

Subdirectories	Bytes	# Files	Subdirectory Description
\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal	275,213	51	Batch Files for model execution
\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\controls	122,251	14	Control files for special programs
\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\controls\ModeChoice_Constants	89,609	20	Mode Choice constant files
\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\scripts	1,301,047	60	Cube/Voyager script files
\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\software	3,163,823	4	Software executable programs
\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\support	50,838,570	28	Model support / parameter files
\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\Assignment_Summary	26,107	4	Model summary scripts
\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\Summary	275,651	11	Model summary scripts
\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\Docums	8,277,856	7	Documentation
\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\TPBTAZ3722_TPBMod	27,752,274	14	GIS shape file of the 3,722-zone system
\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\2017\Inputs	234,228,935	77	Input files pertaining to 2017
\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\2021\Inputs	238,906,412	77	Input files pertaining to 2021
\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\2023\Inputs	239,039,084	77	Input files pertaining to 2023
\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\2025\Inputs	242,202,437	77	Input files pertaining to 2025
\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\2030\Inputs	244,555,928	77	Input files pertaining to 2030
\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\2040\Inputs	245,345,243	77	Input files pertaining to 2040
\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\2045\Inputs	246,335,535	77	Input files pertaining to 2045
Total	1,782,735,975	752	

The rest of the memo includes:

1. Notes on applying the model;
2. Notes on additional documentation;
3. A listing of model inputs and application files; and
4. Control totals resulting from a full application of the model.

APPLYING THE MODEL

The Gen2/Ver. 2.4.6 Model is applied using a series of prepared batch files that operate within the above subdirectory system. The following batch filenames may be used to execute the model for years 2017, 2019, 2021, 2025, 2030, 2040, or 2045 (the filename shown is entered at the command prompt in the “root” subdirectory):

- run_Model_2017.bat
- run_Model_2019.bat
- run_Model_2021.bat
- run_Model_2025.bat
- run_Model_2030.bat
- run_Model_2040.bat
- run_Model_2045.bat

As noted in the user’s guide (Sec. 5.2), the automated procedure to generate transit walksheds and calculate the percent of each zone within walking distance to transit service has now been **turned off by default** by setting **RUN_WALKACCESS=False** in the main/wrapper batch file and the output **areawalk.txt** files are provided in the “Inputs” subdirectory. When RUN_WALKACCESS is turned off, the setup for running the Ver. 2.4.6 Model is no different from the Ver. 2.3 or Ver. 2.4 Model; When RUN_WALKACCESS is turned on, however, **additional setup is needed** as the Ver. 2.4.6 Model uses a new transit walkshed process.

Further details about how the model is structured and how to set up your computer for running the model are provided in the relevant chapters of the user’s guide:

- Chapter 3: Hardware and software requirements
- Chapter 4: Mechanics of the model application process
- Chapter 5: Preparing to run the model
- Chapter 6: Running the model

The model has been designed to operate with a maximum of 8 computer-chip cores (during highway assignment). Chapter 8 of the user’s guide (“Use of parallel processing to reduce model run times”) describes how parallel processing is used in the model. This chapter also includes a table (Table 20) showing how to change batch files to run on computers with fewer than 8 cores.

ADDITIONAL MODEL DOCUMENTATION

Additional documentation is included in the “Docums” folder of the transmittal (i.e., “CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\Docums”). This folder includes one data file and several technical memoranda:

Data file

- **rd92_tpb3722.csv**: This file contains the Round 9.2 land activity data from COG’s Cooperative Forecasts, referenced in the memo below. This data has not undergone the employment definition adjustment, which are used to ensure a consistent definition of employment throughout the modeled region, so it is not suitable for use in the travel model.

Documents

- Meseret Seifu to Feng Xie, “Year-2014 Validation of TPB Version 2.4 Travel Model,” Memorandum, October 29, 2020. (**Ver2.4_Validation_Memo_v6.pdf**)
- DesJardin, Paul and Greg Goodwin to Kanti Srikanth, Tim Canan, and Mark Moran. “Round 9.2 Cooperative Forecast TPB TAZ file.” Memorandum, April 14, 2021. (**Round 9_2 transmittal memo.pdf**)
- Ngo, Ray to DTP Technical Staff. “Exogenous Demand Inputs to the TPB Travel Demand Model: Update for Round 9.2 Cooperative Forecasts.” Memorandum, June 21, 2021. (**V2.4_Exogenous_Inputs_Rnd9.2_3722.pdf**)
- Ko, Sanghyeon to Feng Xie. “Developing land use input files for the Version 2.4 Travel Model using Round 9.2 Cooperative Forecasts and the employment definition adjustment factors.” Memorandum, June 7, 2021. (**Devel_Rnd 9.2_lu_v24mod_v06.pdf**)
- Meseret Seifu and Sanghyeon Ko to Feng Xie, “Year-2018 Validation of TPB Version 2.4 Travel Model,” Memorandum, August 17, 2021.
- Moran, Mark S., Mary Martchouk, and Feng Xie. “Utility for Converting Files in DBF Format to text/CSV Format.” Memorandum, December 5, 2011. (**dbf_file_converter_2011.pdf**)

TABLES

The following tables are attached: 1) A listing of batch files, control files, script files, support files, and model input files by year; and 2) A listing of regional control totals generated after a complete execution of the model (using the default 8 cores) by analysis year.

File List - Subdirectory:

\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal

Seq. No.	File Name	Bytes	Date	Time
1	run_Model_2017.bat	3,113	5/19/2023	1:44 PM
2	run_Model_2021.bat	3,112	5/19/2023	1:49 PM
3	run_Model_2023.bat	3,112	6/29/2023	9:13 AM
4	run_Model_2025.bat	3,112	6/29/2023	9:13 AM
5	run_Model_2030.bat	3,112	6/29/2023	9:14 AM
6	run_Model_2040.bat	3,112	6/29/2023	9:14 AM
7	run_Model_2045.bat	3,112	6/29/2023	9:14 AM
8	run_ModelSteps_2017.bat	3,430	5/19/2023	1:46 PM
9	run_ModelSteps_2021.bat	3,422	5/19/2023	1:51 PM
10	run_ModelSteps_2023.bat	3,422	5/19/2023	2:00 PM
11	run_ModelSteps_2025.bat	3,422	5/19/2023	2:01 PM
12	run_ModelSteps_2030.bat	3,422	5/19/2023	2:02 PM
13	run_ModelSteps_2040.bat	3,422	5/19/2023	2:02 PM
14	run_ModelSteps_2045.bat	3,422	5/19/2023	2:03 PM
15	Auto_Driver.bat	629	5/18/2023	3:14 PM
16	Average_Link_Speeds.bat	1,083	5/18/2023	3:14 PM
17	copyBaseMC_to_final_inputs.bat	530	5/18/2023	3:14 PM
18	dateName.bat	389	5/18/2023	3:14 PM
19	DBF_Converter_v3.2.xls	73,728	5/18/2023	3:14 PM
20	Delete-move_temp_files_v6.bat	4,677	5/18/2023	3:14 PM
21	gap_of_zero.txt	22,292	5/18/2023	3:14 PM
22	Highway_Assignment_Parallel.bat	788	5/18/2023	3:14 PM
23	Highway_Skims.bat	2,195	5/18/2023	3:14 PM
24	MC_Purp.bat	634	5/18/2023	3:14 PM
25	Mode_Choice_Parallel.bat	2,960	5/18/2023	3:14 PM
26	move_temp_files_v6.bat	4,793	5/18/2023	3:14 PM
27	no_underscore.txt	16,268	5/18/2023	3:14 PM
28	PP_Auto_Drivers.bat	501	5/18/2023	3:14 PM
29	PP_Highway_Build.BAT	663	5/18/2023	3:14 PM
30	PP_Highway_Skims.bat	4,522	5/18/2023	3:14 PM
31	README.md	5,097	5/18/2023	3:14 PM
32	searchForErrs.bat	4,427	5/18/2023	3:15 PM
33	set_CPI.bat	554	5/18/2023	3:15 PM
34	set_up_model_run_folders.bat	975	5/18/2023	3:15 PM
35	setErrorLev.bat	168	5/18/2023	3:15 PM
36	shutdown_60s.bat	100	5/18/2023	3:15 PM
37	Tee.exe	47,104	5/18/2023	3:14 PM
38	Time-of-Day.bat	1,966	5/18/2023	3:14 PM
39	TIMETHIS.EXE	8,704	5/18/2023	3:14 PM
40	tppVoyVers.txt	1,000	5/29/2023	7:54 PM
41	Transit_Assignment_LineHaul_Parallel.bat	796	5/18/2023	3:14 PM
42	Transit_Assignment_Parallel.bat	2,493	5/18/2023	3:14 PM
43	Transit_Fare.bat	2,527	5/18/2023	3:14 PM
44	Transit_Skim_All_Modes_Parallel.bat	4,462	5/18/2023	3:14 PM
45	Transit_Skim_LineHaul_Parallel.bat	686	5/18/2023	3:14 PM
46	Transit_Skim_Select_Paths.bat	345	5/18/2023	3:14 PM
47	TranSum.bat	911	5/18/2023	3:14 PM
48	Trip_Distribution.bat	2,085	5/18/2023	3:14 PM
49	Trip_Generation.bat	1,342	5/18/2023	3:14 PM
50	updating_tpp_dll_files.bat	723	5/18/2023	3:15 PM
51	Walkshed_Process.bat	2,122	5/18/2023	3:14 PM
	Total	270,986		

File List - Subdirectory:

\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\Controls

Seq. No.	File Name	Bytes	Date	Time
1	HBO_OP_ModeChoice.ctl	2,441	5/18/2023	3:17 PM
2	HBS_OP_ModeChoice.ctl	2,437	5/18/2023	3:17 PM
3	HBW_AM_ModeChoice.ctl	2,445	5/18/2023	3:17 PM
4	lineSum_MR_access.ctl	842	5/18/2023	3:18 PM
5	lineSum_MR_line.ctl	623	5/18/2023	3:18 PM
6	LineSum_Volume.ctl	1,574	5/18/2023	3:17 PM
7	ModeChoice_CommonKeys.c	22,479	5/18/2023	3:17 PM
8	ModeChoice_Script.txt	11,311	5/18/2023	3:17 PM
9	NHO_OP_ModeChoice.ctl	2,385	5/18/2023	3:17 PM
10	NHW_OP_ModeChoice.ctl	2,384	5/18/2023	3:17 PM
11	Segment_Map.csv	336	5/18/2023	3:17 PM
12	Segment_Map.csv.def	95	5/18/2023	3:17 PM
13	station_names.dbf	72,455	5/18/2023	3:18 PM
14	ZONEV2.A2F.def	444	5/18/2023	3:17 PM
	Total	122,251		

File List - Subdirectory:

\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\Controls\ModeChoice_Constants

Seq. No.	File Name	Bytes	Date	Time
1	HBO_OP_BiasConstants.csv	7,300	5/18/2023	3:18 PM
2	HBO_OP_BiasConstants.csv.def	175	5/18/2023	3:18 PM
3	HBO_OP_ModeConstants.csv	14,496	5/18/2023	3:18 PM
4	HBO_OP_ModeConstants.csv.def	179	5/18/2023	3:18 PM
5	HBS_OP_BiasConstants.csv	7,300	5/18/2023	3:18 PM
6	HBS_OP_BiasConstants.csv.def	175	5/18/2023	3:18 PM
7	HBS_OP_ModeConstants.csv	14,500	5/18/2023	3:18 PM
8	HBS_OP_ModeConstants.csv.def	179	5/18/2023	3:18 PM
9	HBW_AM_BiasConstants.csv	7,300	5/18/2023	3:18 PM
10	HBW_AM_BiasConstants.csv.def	175	5/18/2023	3:18 PM
11	HBW_AM_ModeConstants.csv	14,888	5/18/2023	3:18 PM
12	HBW_AM_ModeConstants.csv.def	179	5/18/2023	3:18 PM
13	NHO_OP_BiasConstants.csv	4,673	5/18/2023	3:18 PM
14	NHO_OP_BiasConstants.csv.def	100	5/18/2023	3:18 PM
15	NHO_OP_ModeConstants.csv	6,484	5/18/2023	3:18 PM
16	NHO_OP_ModeConstants.csv.def	101	5/18/2023	3:18 PM
17	NHW_OP_BiasConstants.csv	4,673	5/18/2023	3:18 PM
18	NHW_OP_BiasConstants.csv.def	100	5/18/2023	3:18 PM
19	NHW_OP_ModeConstants.csv	6,531	5/18/2023	3:18 PM
20	NHW_OP_ModeConstants.csv.def	101	5/18/2023	3:18 PM
	Total	89,609		

File List - Subdirectory:

\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\Scripts

Seq. No.	File Name	Bytes	Date	Time
1	Adjust_Runtime.s	5,955	5/18/2023	4:49 PM
2	AreaType_File.s	9,364	5/18/2023	3:15 PM
3	Assemble_Skims_AB.s	4,856	5/18/2023	3:15 PM
4	Assemble_Skims_BM.s	4,857	5/18/2023	3:15 PM
5	Assemble_Skims_CR.s	3,677	5/18/2023	3:15 PM
6	Assemble_Skims_MR.s	4,857	5/18/2023	3:15 PM
7	Autoacc5.s	25,468	5/18/2023	3:15 PM
8	Average_Link_Speeds.s	15,067	5/18/2023	3:15 PM
9	CheckStationAccess.s	781	5/18/2023	3:15 PM
10	Combine_Tables_For_TrAssign_Parallel.s	2,550	5/18/2023	3:15 PM
11	Demo_Models.s	58,228	5/18/2023	3:15 PM
12	Highway_Assignment_Parallel.s	84,008	5/18/2023	3:15 PM
13	Highway_Skims_am.s	13,120	5/18/2023	3:15 PM
14	Highway_Skims_md.s	13,118	5/18/2023	3:15 PM
15	Highway_Skims_mod_am.s	8,019	5/18/2023	3:15 PM
16	Highway_Skims_mod_md.s	8,021	5/18/2023	3:15 PM
17	joinskims.s	1,406	5/18/2023	3:16 PM
18	Maryland1900Ft_ShapefileProjection_TEMPLATE.prj	534	5/18/2023	3:15 PM
19	MC_Auto_Drivers.s	10,599	5/18/2023	3:15 PM
20	MC_Constraint_V23.s	46,195	5/18/2023	3:15 PM
21	MC_NL_Summary.s	25,907	5/18/2023	3:15 PM
22	Metrorail_skims.s	2,601	5/18/2023	3:15 PM
23	MFARE1.S	8,540	5/18/2023	3:15 PM
24	MFARE2.S	27,080	5/18/2023	3:15 PM
25	Misc_Time-of-Day.s	20,258	5/18/2023	3:15 PM
26	modnet.s	929	5/18/2023	3:16 PM
27	MWCOG_ArcPy_Walkshed_Process_TEMPLATE.mxd	288,768	5/18/2023	3:15 PM
28	MWCOG_Prepare_Inputs_to_Walkshed_Process_PT	13,159	5/18/2023	3:15 PM
29	MWCOG_Prepare_Inputs_to_Walkshed_Process_TR	9,073	5/18/2023	3:15 PM
30	Parker.s	6,856	5/18/2023	3:15 PM
31	pathTrace.s	3,135	5/18/2023	3:16 PM
32	PP_Auto_Drivers.s	19,168	5/18/2023	3:15 PM
33	prefarV23.s	19,427	5/18/2023	3:16 PM
34	Prepare_Ext_Auto_Ends.s	42,541	5/18/2023	3:15 PM
35	Prepare_Ext_ComTruck_Ends.s	9,988	5/18/2023	3:15 PM
36	Prepare_Internal_Ends.s	31,370	5/18/2023	3:15 PM
37	Prepare_Trip_Tables_for_Assignment.s	31,835	5/18/2023	3:15 PM
38	Refine_Station_File.s	1,801	5/18/2023	3:15 PM
39	Remove_PP_Speed.s	342	5/18/2023	3:15 PM
40	Set_CPI.S	4,827	5/18/2023	3:15 PM
41	Set_Factors.s	20,752	5/18/2023	3:16 PM
42	Time-of-Day.s	25,102	5/18/2023	3:16 PM
43	Transit_Accessibility.s	2,936	5/18/2023	3:16 PM
44	Transit_Assignment_AB.s	12,023	5/18/2023	3:16 PM
45	Transit_Assignment_BM.s	12,032	5/18/2023	3:16 PM
46	Transit_Assignment_CR.s	10,705	5/18/2023	3:16 PM
47	Transit_Assignment_MR.s	11,847	5/18/2023	3:16 PM
48	Transit_Skims_AB.s	16,673	5/18/2023	3:16 PM
49	Transit_Skims_BM.s	17,000	5/18/2023	3:16 PM
50	Transit_Skims_CR.s	15,136	5/18/2023	3:16 PM

File List - Subdirectory:

\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\Scripts (continued)

Seq. No.	File Name	Bytes	Date	Time
51	Transit_Skims_MR.s	16,307	5/18/2023	3:16 PM
52	Trip_Distribution_External.s	42,949	5/18/2023	3:16 PM
53	Trip_Distribution_Internal.s	32,063	5/18/2023	3:16 PM
54	Trip_Generation.s	78,863	5/18/2023	3:16 PM
55	Trip_Generation_Summary.s	49,194	5/18/2023	3:16 PM
56	Truck_Com_Trip_Generation.s	17,088	5/18/2023	3:16 PM
57	unbuild_net.s	1,092	5/18/2023	3:16 PM
58	V2.3_Highway_Build.s	13,920	5/18/2023	3:16 PM
59	walkacc.s	15,738	5/18/2023	3:16 PM
60	Walkshed_Process.py	1,342	5/18/2023	3:16 PM
	Total	1,301,047		

File List - Subdirectory:

\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\Software

Seq. No.	File Name	Bytes	Date	Time
1	extrtab.exe	464,559	5/18/2023	3:16 PM
2	LineSum.exe	697,344	5/18/2023	3:16 PM
3	ModeChoice.exe	1,955,328	5/18/2023	3:16 PM
4	VoyagerFileAccess.dll	46,592	5/18/2023	3:16 PM
	Total	3,163,823		

File List - Subdirectory:

\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\Support

Seq. No.	File Name	Bytes	Date	Time
1	AM_SPD_LKP.txt	624	5/18/2023	3:16 PM
2	AttrRates.dbf	3,264	5/18/2023	3:16 PM
3	cvdelta_3722.trp	8,766,338	5/18/2023	3:17 PM
4	equiv_toll_min_by_inc.s	1,066	5/18/2023	3:17 PM
5	HBIncRat.dbf	3,386	5/18/2023	3:16 PM
6	hwy_assign_capSpeedLookup.s	1,287	5/18/2023	3:17 PM
7	hwy_assign_conical_vdf.s	2,575	5/18/2023	3:17 PM
8	MD_SPD_LKP.txt	628	5/18/2023	3:16 PM
9	NMARates.dbf	3,350	5/18/2023	3:16 PM
10	NMPRates.dbf	3,386	5/18/2023	3:16 PM
11	TAZ3722_to_7Mrkts.txt	121,044	5/18/2023	3:16 PM
12	tkdelta_3722.trp	13,835,438	5/18/2023	3:17 PM
13	todcomp_2008HTS.dbf	3,657	5/18/2023	3:17 PM
14	Toll_Minutes.TXT	1,291	5/18/2023	3:16 PM
15	TPBMod_Jur_Boundary.dbf	10,332	5/18/2023	3:16 PM
16	TPBMod_Jur_Boundary.prj	534	5/18/2023	3:16 PM
17	TPBMod_Jur_Boundary.sbn	428	5/18/2023	3:16 PM
18	TPBMod_Jur_Boundary.sbx	164	5/18/2023	3:16 PM
19	TPBMod_Jur_Boundary.shp	3,709,208	5/18/2023	3:16 PM
20	TPBMod_Jur_Boundary.shp.xml	142,163	5/18/2023	3:16 PM
21	TPBMod_Jur_Boundary.shx	308	5/18/2023	3:16 PM
22	Truck_Com_Trip_Rates.DBF	1,838	5/18/2023	3:16 PM
23	True_Shape_2045_link2050.dbf	14,168,896	2/1/2023	10:07 AM
24	True_Shape_2045_link2050.prj	534	2/1/2023	10:07 AM
25	True_Shape_2045_link2050.shp	9,570,172	2/1/2023	10:07 AM
26	True_Shape_2045_link2050.shx	400,588	2/1/2023	10:07 AM
27	Ver23_f_factors.dbf	77,525	5/18/2023	3:17 PM
28	weighted_trip_rates.dbf	8,546	5/18/2023	3:17 PM
	Total	50,838,570		

File List - Subdirectory:

\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\Assignment_Summary

Seq. No.	File Name	Bytes	Date	Time
1	RMSE_Calc.s	17,815	2/12/2013	4:08 PM
2	ScreenLine_Summary.s	889	12/11/2012	5:22 PM
3	Summarize_Est_Obs_Volume_Daily.s	6,789	2/20/2013	4:24 PM
4	TVOLDIF_Plot.s	614	10/4/2012	11:27 AM
	Total	26,107		

File List - Subdirectory:

\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\Summary

Seq. No.	File Name	Bytes	Date	Time
1	COMPARE_NL_MC.S	21,216	5/16/2016	4:20 PM
2	COMPARE_NL_MC_Cube61vsCube64.S	24,138	4/28/2016	10:42 AM
3	COMPARE_NL_MC_Expanded_Alt_V23_52_minus_Base_V23_39.S	24,110	5/15/2013	2:30 PM
4	Compare_Trip_Distribution.s	20,887	12/9/2012	10:26 PM
5	Diff_Plots_Rev2.s	518	3/12/2014	11:49 AM
6	Retrieve_Proc_SubAreas.s	39,450	3/19/2013	11:12 AM
7	Screen_Analysis.s	28,408	10/29/2013	11:14 AM
8	Summarize_2007_2040_Screenlines.s	3,353	8/6/2012	3:29 PM
9	Summarize_Est_Obs_Volume_Daily.s	6,789	2/20/2013	4:24 PM
10	Summarize_Est_Obs_Volume_Period.s	11,994	9/13/2012	4:29 PM
11	view_from_space.s	94,851	6/1/2020	3:08 PM
	Total	275,714		

File List - Subdirectory:

\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\Docums

Seq. No.	File Name	Bytes	Date	Time
1	dbf_file_converter_2011.pdf	171,362	2/13/2012	1:21 PM
2	Devel_Rnd 9.2_lu_v24mod_v06.pdf	2,839,115	6/10/2021	10:26 AM
3	rd92_tpb3722.csv	949,074	4/12/2021	6:12 PM
4	Round 9_2_transmittal memo.pdf	303,094	4/14/2021	3:28 PM
5	V2.4_Exogenous_Inputs_Rnd9.2_3722.pdf	2,095,402	6/28/2021	9:18 AM
6	Ver2.4_2018Validation_Memo_v6.pdf	1,250,458	11/9/2021	4:42 PM
7	Ver2.4_Validation_Memo_v6.pdf	669,351	10/29/2020	12:34 PM
	bytes	8,277,856		

File List - Subdirectory:

\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\TPBTAZ3722_TPBMod

Seq. No.	File Name	Bytes	Date	Time
1	TAZLand3722.dbf	697,496	5/18/2023	3:17 PM
2	TAZLand3722.prj	534	5/18/2023	3:17 PM
3	TAZLand3722.sbn	35,228	5/18/2023	3:17 PM
4	TAZLand3722.sbx	2,076	5/18/2023	3:17 PM
5	TAZLand3722.shp	13,091,944	5/18/2023	3:17 PM
6	TAZLand3722.shp.xml	154,718	5/18/2023	3:17 PM
7	TAZLand3722.shx	29,452	5/18/2023	3:17 PM
8	TPBTAZ3722_TPBMod.dbf	903,024	5/18/2023	3:17 PM
9	TPBTAZ3722_TPBMod.prj	534	5/18/2023	3:17 PM
10	TPBTAZ3722_TPBMod.sbn	35,228	5/18/2023	3:17 PM
11	TPBTAZ3722_TPBMod.sbx	2,076	5/18/2023	3:17 PM
12	TPBTAZ3722_TPBMod.shp	12,617,172	5/18/2023	3:17 PM
13	TPBTAZ3722_TPBMod.shp.xml	153,340	5/18/2023	3:17 PM
14	TPBTAZ3722_TPBMod.shx	29,452	5/18/2023	3:17 PM
	Total	27,752,274		

File List - Subdirectory:

\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\2017\Inputs

Seq. No.	File Name	Bytes	Date	Time
1	airpax.adr	217,349	6/1/2021	11:18 AM
2	AM_Tfac.dbf	10,654	1/25/2022	6:13 PM
3	areadef3722.prn	124,712	12/6/2010	11:59 PM
4	AreaWalk.txt	286,260	5/19/2023	4:33 PM
5	AT_override.TXT	155	9/14/2011	1:27 PM
6	Bus_Factor_File.dbf	1,774	3/16/2016	11:29 AM
7	BUS_PNRN.TB	11,046	1/21/2022	9:13 AM
8	BUSFARAM.ASC	4,592	4/17/2018	11:01 AM
9	BUSFAROP.ASC	4,592	4/17/2018	11:01 AM
10	COM_BUS.TB	4,690	1/21/2022	9:13 AM
11	COM_LINK.TB	3,621	1/21/2022	9:13 AM
12	COM_NODE.TB	2,996	1/21/2022	9:13 AM
13	COM_PNRN.TB	2,702	1/21/2022	9:13 AM
14	CPI_File.txt	2,735	6/16/2021	9:25 AM
15	Ext_PsAs.dbf	10,216	5/24/2021	5:00 PM
16	GIS_variables.DBF	886,093	6/11/2010	3:36 PM
17	HBO_NL_MC.MTT	43,859,128	8/19/2020	5:27 PM
18	HBS_NL_MC.MTT	29,903,865	8/19/2020	5:26 PM
19	HBW_NL_MC.MTT	58,535,122	8/19/2020	5:28 PM
20	Jur.dbf	241	3/27/2010	11:34 AM
21	link.DBF	28,935,138	1/21/2022	9:23 AM
22	LRT_BUS.TB	70	1/21/2022	9:13 AM
23	LRT_LINK.TB	9	1/21/2022	9:13 AM
24	LRT_NODE.TB	9	1/21/2022	9:13 AM
25	LRT_PNRN.TB	0	1/21/2022	9:13 AM
26	MD_Tfac.dbf	10,654	1/25/2022	6:13 PM
27	MET_BUS.TB	11,410	1/21/2022	9:13 AM
28	MET_LINK.TB	6,673	1/21/2022	9:13 AM
29	MET_NODE.TB	5,545	1/21/2022	9:13 AM
30	MET_PNRN.TB	2,365	1/21/2022	9:13 AM
31	MetLnkM1.TB	27,446	1/21/2022	9:13 AM
32	MetNodM1.TB	10,010	1/21/2022	9:13 AM
33	MFare1.a1	3,907	1/21/2022	9:13 AM
34	mfare1_Sta_Disc.ASC	2,100	3/10/2006	10:34 AM
35	MODE10AM.TB	3,199	1/21/2022	9:13 AM
36	MODE10OP.TB	2,186	1/21/2022	9:13 AM

File List - Subdirectory:
 \CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\2017\Inputs (continued)

Seq. No.	File Name	Bytes	Date	Time
37	MODE1AM.TB	306,820	1/21/2022	9:12 AM
38	MODE1OP.TB	256,474	1/21/2022	9:12 AM
39	MODE2AM.TB	35,935	1/21/2022	9:12 AM
40	MODE2OP.TB	15,235	1/21/2022	9:12 AM
41	MODE3AM.TB	6,550	1/21/2022	9:12 AM
42	MODE3OP.TB	7,213	1/21/2022	9:12 AM
43	MODE4AM.TB	10,000	1/21/2022	9:12 AM
44	MODE4OP.TB	7,481	1/21/2022	9:12 AM
45	MODE5AM.TB	9	1/21/2022	9:13 AM
46	MODE5OP.TB	9	1/21/2022	9:13 AM
47	MODE6AM.TB	287,735	1/21/2022	9:12 AM
48	MODE6OP.TB	227,258	1/21/2022	9:12 AM
49	MODE7AM.TB	43,515	1/21/2022	9:12 AM
50	MODE7OP.TB	23,468	1/21/2022	9:12 AM
51	MODE8AM.TB	89,395	1/21/2022	9:12 AM
52	MODE8OP.TB	108,192	1/21/2022	9:13 AM
53	MODE9AM.TB	106,717	1/21/2022	9:13 AM
54	MODE9OP.TB	47,805	1/21/2022	9:13 AM
55	NEW_BUS.TB	1,610	1/21/2022	9:13 AM
56	NEW_LINK.TB	1,775	1/21/2022	9:13 AM
57	NEW_NODE.TB	1,480	1/21/2022	9:13 AM
58	NEW_PNRN.TB	9	1/21/2022	9:13 AM
59	NHO_NL_MC.MTT	29,718,515	8/19/2020	5:27 PM
60	NHw_NL_MC.MTT	35,682,202	8/19/2020	5:28 PM
61	node.DBF	1,360,521	1/21/2022	9:23 AM
62	NT_Tfac.dbf	10,654	1/25/2022	6:14 PM
63	pen.DBF	4,444	5/3/2011	11:38 AM
64	PM_Tfac.dbf	10,654	1/25/2022	6:15 PM
65	schl.adr	517,977	5/26/2021	10:10 AM
66	StaAcc.dbf	259	3/27/2010	11:34 AM
67	station.DBF	197,226	1/21/2022	9:13 AM
68	tariff.txt	1,997	9/1/2021	2:54 PM
69	taxi.adr	530,469	5/26/2021	10:10 AM
70	TAZFRZN.ASC	301,268	8/23/2011	11:01 AM
71	Toll_Esc.dbf	10,165	2/12/2022	5:58 PM
72	TRNPEN.DAT	1,098	12/11/2010	4:28 PM
73	visi.adr	746,639	5/26/2021	10:10 AM
74	xtrawalk.dbf	1,278	3/27/2017	1:21 PM
75	xxaut.vtt	32,279	5/24/2021	5:00 PM
76	xxcv.ttt	101,716	5/24/2021	5:00 PM
77	zone.dbf	521,625	4/28/2021	4:35 PM
	Total	234,228,935		

File List - Subdirectory:

\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\2021\Inputs

Seq. No.	File Name	Bytes	Date	Time
1	airpax.adr	219,529	6/1/2021	11:18 AM
2	AM_Tfac.dbf	12,688	9/13/2021	3:29 PM
3	areadef3722.prn	124,712	12/6/2010	11:59 PM
4	AreaWalk.txt	286,260	5/22/2023	3:13 PM
5	AT_override.TXT	155	9/14/2011	1:27 PM
6	Bus_Factor_File.dbf	1,774	3/16/2016	11:29 AM
7	BUS_PNRN.TB	11,369	9/14/2022	10:27 AM
8	BUSFARAM.ASC	1,999	9/10/2021	3:52 PM
9	BUSFAROP.ASC	1,999	9/10/2021	3:52 PM
10	COM_BUS.TB	4,900	9/14/2022	10:27 AM
11	COM_LINK.TB	3,621	9/14/2022	10:27 AM
12	COM_NODE.TB	2,996	9/14/2022	10:27 AM
13	COM_PNRN.TB	2,702	9/14/2022	10:27 AM
14	CPI_File.txt	2,735	6/16/2021	9:25 AM
15	Ext_PsAs.dbf	10,216	5/24/2021	5:00 PM
16	GIS_variables.DBF	886,093	6/11/2010	3:36 PM
17	HBO_NL_MC.MTT	44,750,038	8/19/2020	5:47 PM
18	HBS_NL_MC.MTT	30,221,654	8/19/2020	5:45 PM
19	HBW_NL_MC.MTT	60,847,361	8/19/2020	5:47 PM
20	Jur.dbf	241	3/27/2010	11:34 AM
21	Link.DBF	28,980,414	9/12/2022	2:02 PM
22	LRT_BUS.TB	70	9/14/2022	10:27 AM
23	LRT_LINK.TB	9	9/14/2022	10:27 AM
24	LRT_NODE.TB	9	9/14/2022	10:27 AM
25	LRT_PNRN.TB	0	9/14/2022	10:27 AM
26	MD_Tfac.dbf	12,688	9/13/2021	3:30 PM
27	MET_BUS.TB	11,480	9/14/2022	10:27 AM
28	MET_LINK.TB	6,673	9/14/2022	10:27 AM
29	MET_NODE.TB	5,545	9/14/2022	10:27 AM
30	MET_PNRN.TB	2,365	9/14/2022	10:27 AM
31	MetLnkM1.TB	27,446	9/14/2022	10:27 AM
32	MetNodM1.TB	10,010	9/14/2022	10:27 AM
33	MFare1.a1	3,907	9/14/2022	10:27 AM
34	mfare1_Sta_Disc.ASC	2,100	3/10/2006	10:34 AM
35	MODE10AM.TB	4,234	9/14/2022	10:27 AM
36	MODE10OP.TB	2,731	9/14/2022	10:27 AM

File List - Subdirectory:

\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\2021\Inputs (continued)

Seq. No.	File Name	Bytes	Date	Time
37	MODE1AM.TB	311,387	9/14/2022	10:27 AM
38	MODE1OP.TB	263,833	9/14/2022	10:27 AM
39	MODE2AM.TB	35,051	9/14/2022	10:27 AM
40	MODE2OP.TB	15,412	9/14/2022	10:27 AM
41	MODE3AM.TB	6,163	9/14/2022	10:27 AM
42	MODE3OP.TB	6,828	9/14/2022	10:27 AM
43	MODE4AM.TB	9,447	9/14/2022	10:27 AM
44	MODE4OP.TB	7,468	9/14/2022	10:27 AM
45	MODE5AM.TB	9	9/14/2022	10:27 AM
46	MODE5OP.TB	9	9/14/2022	10:27 AM
47	MODE6AM.TB	265,997	9/14/2022	10:27 AM
48	MODE6OP.TB	209,410	9/14/2022	10:27 AM
49	MODE7AM.TB	7,863	9/14/2022	10:27 AM
50	MODE7OP.TB	14,469	9/14/2022	10:27 AM
51	MODE8AM.TB	110,941	5/19/2023	2:29 PM
52	MODE8OP.TB	125,541	5/19/2023	2:29 PM
53	MODE9AM.TB	130,217	5/19/2023	2:31 PM
54	MODE9OP.TB	57,057	5/19/2023	2:32 PM
55	NEW_BUS.TB	2,660	9/14/2022	10:27 AM
56	NEW_LINK.TB	2,627	9/14/2022	10:27 AM
57	NEW_NODE.TB	2,278	9/14/2022	10:27 AM
58	NEW_PNRN.TB	0	9/14/2022	10:27 AM
59	NHO_NL_MC.MTT	29,993,757	8/19/2020	5:46 PM
60	NHw_NL_MC.MTT	36,494,547	8/19/2020	5:47 PM
61	Node.DBF	1,361,830	9/12/2022	2:02 PM
62	NT_Tfac.dbf	12,688	9/13/2021	3:30 PM
63	pen.DBF	4,444	5/3/2011	11:38 AM
64	PM_Tfac.dbf	12,688	9/13/2021	3:36 PM
65	schl.adr	508,692	5/26/2021	10:10 AM
66	StaAcc.dbf	259	3/27/2010	11:34 AM
67	station.DBF	207,222	9/14/2022	10:28 AM
68	tariff.txt	2,070	9/1/2021	4:34 PM
69	taxi.adr	533,318	5/26/2021	10:10 AM
70	TAZFRZN.ASC	301,268	8/23/2011	11:01 AM
71	Toll_Esc.dbf	12,091	9/15/2022	6:01 PM
72	TRNPEN.DAT	1,098	12/11/2010	4:28 PM
73	visi.adr	756,047	5/26/2021	10:10 AM
74	xtrawalk.dbf	1,278	3/27/2017	1:21 PM
75	xxaut.vtt	32,249	5/24/2021	5:00 PM
76	xxcvt.vtt	101,851	5/24/2021	5:00 PM
77	zone.dbf	521,625	4/28/2021	4:35 PM
	Total	238,906,412		

File List - Subdirectory:

\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\2023\Inputs

Seq. No.	File Name	Bytes	Date	Time
1	airpax.adr	220,725	6/1/2021	11:18 AM
2	AM_Tfac.dbf	21,954	9/27/2022	5:26 PM
3	areadef3722.prn	124,712	12/6/2010	11:59 PM
4	AreaWalk.txt	286,260	5/23/2023	10:55 AM
5	AT_override.TXT	155	9/14/2011	1:27 PM
6	Bus_Factor_File.dbf	1,774	3/16/2016	11:29 AM
7	BUS_PNRN.TB	11,432	9/23/2022	9:12 AM
8	BUSFARAM.ASC	1,999	9/10/2021	3:52 PM
9	BUSFAROP.ASC	1,999	9/10/2021	3:52 PM
10	COM_BUS.TB	5,040	9/23/2022	9:12 AM
11	COM_LINK.TB	3,763	9/23/2022	9:12 AM
12	COM_NODE.TB	3,058	9/23/2022	9:12 AM
13	COM_PNRN.TB	2,764	9/23/2022	9:12 AM
14	CPI_File.txt	2,735	6/16/2021	9:25 AM
15	Ext_PsAs.dbf	10,216	5/24/2021	5:00 PM
16	GIS_variables.DBF	886,093	6/11/2010	3:36 PM
17	HBO_NL_MC.MTT	44,750,038	8/19/2020	5:47 PM
18	HBS_NL_MC.MTT	30,221,654	8/19/2020	5:45 PM
19	HBW_NL_MC.MTT	60,847,361	8/19/2020	5:47 PM
20	Jur.dbf	241	3/27/2010	11:34 AM
21	LINK.DBF	29,022,162	9/23/2022	9:07 AM
22	LRT_BUS.TB	1,820	9/23/2022	9:12 AM
23	LRT_LINK.TB	1,420	9/23/2022	9:12 AM
24	LRT_NODE.TB	1,295	9/23/2022	9:12 AM
25	LRT_PNRN.TB	100	9/23/2022	9:12 AM
26	MD_Tfac.dbf	21,954	9/27/2022	5:27 PM
27	MET_BUS.TB	12,600	9/23/2022	9:12 AM
28	MET_LINK.TB	7,241	9/23/2022	9:12 AM
29	MET_NODE.TB	5,999	9/23/2022	9:12 AM
30	MET_PNRN.TB	2,619	9/23/2022	9:12 AM
31	MetLnkM1.TB	29,782	9/23/2022	9:12 AM
32	MetNodM1.TB	10,780	9/23/2022	9:12 AM
33	MFare1.a1	4,235	9/23/2022	9:12 AM
34	mfare1_Sta_Disc.ASC	2,100	3/10/2006	10:34 AM
35	MODE10AM.TB	4,278	9/23/2022	9:12 AM
36	MODE10OP.TB	2,746	9/23/2022	9:12 AM

File List - Subdirectory:

\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\2023\Inputs (continued)

Seq. No.	File Name	Bytes	Date	Time
37	MODE1AM.TB	311,400	9/23/2022	9:12 AM
38	MODE1OP.TB	263,840	9/23/2022	9:12 AM
39	MODE2AM.TB	35,038	9/23/2022	9:12 AM
40	MODE2OP.TB	15,415	9/23/2022	9:12 AM
41	MODE3AM.TB	6,230	9/23/2022	9:12 AM
42	MODE3OP.TB	6,877	9/23/2022	9:12 AM
43	MODE4AM.TB	9,472	9/23/2022	9:12 AM
44	MODE4OP.TB	7,506	9/23/2022	9:12 AM
45	MODE5AM.TB	2,054	9/23/2022	9:12 AM
46	MODE5OP.TB	3,698	9/23/2022	9:12 AM
47	MODE6AM.TB	269,144	9/23/2022	9:12 AM
48	MODE6OP.TB	209,396	9/23/2022	9:12 AM
49	MODE7AM.TB	8,612	5/19/2023	2:33 PM
50	MODE7OP.TB	14,468	9/23/2022	9:12 AM
51	MODE8AM.TB	110,940	5/19/2023	2:33 PM
52	MODE8OP.TB	125,540	5/19/2023	2:34 PM
53	MODE9AM.TB	130,036	5/19/2023	2:34 PM
54	MODE9OP.TB	57,056	5/19/2023	2:34 PM
55	NEW_BUS.TB	2,730	9/23/2022	9:12 AM
56	NEW_LINK.TB	2,627	9/23/2022	9:12 AM
57	NEW_NODE.TB	2,278	9/23/2022	9:12 AM
58	NEW_PNRN.TB	0	9/23/2022	9:12 AM
59	NHO_NL_MC.MTT	29,993,757	8/19/2020	5:46 PM
60	NHW_NL_MC.MTT	36,494,547	8/19/2020	5:47 PM
61	NODE.DBF	1,364,140	9/23/2022	9:07 AM
62	NT_Tfac.dbf	21,954	9/27/2022	5:28 PM
63	pen.DBF	4,444	5/3/2011	11:38 AM
64	PM_Tfac.dbf	21,954	9/27/2022	5:29 PM
65	schl.adr	511,320	5/26/2021	10:10 AM
66	StaAcc.dbf	259	3/27/2010	11:34 AM
67	station.DBF	224,862	9/23/2022	9:13 AM
68	tariff.txt	2,070	9/1/2021	4:34 PM
69	taxi.adr	537,117	5/26/2021	10:10 AM
70	TAZFRZN.ASC	301,268	8/23/2011	11:01 AM
71	Toll_Esc.dbf	20,865	9/28/2022	9:48 PM
72	TRNPEN.DAT	1,098	12/11/2010	4:28 PM
73	visi.adr	752,903	5/26/2021	10:10 AM
74	xtrawalk.dbf	1,278	3/27/2017	1:21 PM
75	xxaut.vtt	32,264	5/24/2021	5:00 PM
76	xxcv.ttt	101,898	5/24/2021	5:00 PM
77	zone.dbf	521,625	4/28/2021	4:35 PM
	Total	239,039,084		

File List - Subdirectory:
 \CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\2025\Inputs

Seq. No.	File Name	Bytes	Date	Time
1	airpax.adr	221,713	6/1/2021	11:15 AM
2	AM_Tfac.dbf	27,604	11/22/2021	6:09 PM
3	areadef3722.prn	124,712	12/6/2010	11:59 PM
4	AreaWalk.txt	286,260	5/24/2023	8:09 AM
5	AT_override.TXT	155	9/14/2011	1:27 PM
6	Bus_Factor_File.dbf	1,774	3/16/2016	11:29 AM
7	BUS_PNRN.TB	11,486	10/3/2022	11:13 AM
8	BUSFARAM.ASC	1,999	9/10/2021	3:52 PM
9	BUSFAROP.ASC	1,999	9/10/2021	3:52 PM
10	COM_BUS.TB	5,110	10/3/2022	11:13 AM
11	COM_LINK.TB	3,763	10/3/2022	11:13 AM
12	COM_NODE.TB	3,058	10/3/2022	11:13 AM
13	COM_PNRN.TB	2,764	10/3/2022	11:13 AM
14	CPI_File.txt	2,735	6/16/2021	9:25 AM
15	Ext_PsAs.dbf	10,216	5/24/2021	5:00 PM
16	GIS_variables.DBF	886,093	6/11/2010	3:36 PM
17	HBO_NL_MC.MTT	45,389,057	8/21/2020	6:35 PM
18	HBS_NL_MC.MTT	30,363,542	8/21/2020	6:33 PM
19	HBW_NL_MC.MTT	62,601,796	8/21/2020	6:35 PM
20	Jur.dbf	241	3/27/2010	11:34 AM
21	link.DBF	29,081,550	10/3/2022	11:21 AM
22	LRT_BUS.TB	1,820	10/3/2022	11:13 AM
23	LRT_LINK.TB	1,420	10/3/2022	11:13 AM
24	LRT_NODE.TB	1,295	10/3/2022	11:13 AM
25	LRT_PNRN.TB	100	10/3/2022	11:13 AM
26	MD_Tfac.dbf	27,604	11/22/2021	6:10 PM
27	MET_BUS.TB	12,670	10/3/2022	11:13 AM
28	MET_LINK.TB	7,241	10/3/2022	11:13 AM
29	MET_NODE.TB	5,999	10/3/2022	11:13 AM
30	MET_PNRN.TB	2,619	10/3/2022	11:13 AM
31	MetLnkM1.TB	29,782	10/3/2022	11:13 AM
32	MetNodM1.TB	10,780	10/3/2022	11:13 AM
33	MFare1.a1	4,235	10/3/2022	11:13 AM
34	mfare1_Sta_Disc.ASC	2,100	3/10/2006	10:34 AM
35	MODE10AM.TB	5,371	10/3/2022	11:13 AM
36	MODE10OP.TB	3,835	10/3/2022	11:13 AM

File List - Subdirectory:

\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\2025\Inputs (continued)

Seq. No.	File Name	Bytes	Date	Time
37	MODE1AM.TB	311,385	10/3/2022	11:12 AM
38	MODE1OP.TB	263,831	10/3/2022	11:12 AM
39	MODE2AM.TB	35,039	10/3/2022	11:12 AM
40	MODE2OP.TB	15,416	10/3/2022	11:12 AM
41	MODE3AM.TB	6,235	10/3/2022	11:12 AM
42	MODE3OP.TB	6,878	10/3/2022	11:12 AM
43	MODE4AM.TB	9,473	10/3/2022	11:12 AM
44	MODE4OP.TB	7,507	10/3/2022	11:12 AM
45	MODE5AM.TB	2,055	10/3/2022	11:12 AM
46	MODE5OP.TB	3,699	10/3/2022	11:12 AM
47	MODE6AM.TB	269,109	10/3/2022	11:12 AM
48	MODE6OP.TB	209,397	10/3/2022	11:12 AM
49	MODE7AM.TB	14,667	5/19/2023	2:35 PM
50	MODE7OP.TB	20,530	10/3/2022	11:12 AM
51	MODE8AM.TB	110,941	5/19/2023	2:36 PM
52	MODE8OP.TB	125,541	5/19/2023	2:36 PM
53	MODE9AM.TB	130,009	5/19/2023	2:36 PM
54	MODE9OP.TB	57,091	5/19/2023	2:36 PM
55	NEW_BUS.TB	3,500	10/3/2022	11:13 AM
56	NEW_LINK.TB	3,408	10/3/2022	11:13 AM
57	NEW_NODE.TB	3,176	10/20/2022	11:27 AM
58	NEW_PNRN.TB	0	10/3/2022	11:13 AM
59	NHO_NL_MC.MTT	30,150,708	8/21/2020	6:34 PM
60	NHw_NL_MC.MTT	36,849,396	8/21/2020	6:35 PM
61	node.DBF	1,366,912	10/3/2022	11:21 AM
62	NT_Tfac.dbf	27,604	11/22/2021	6:10 PM
63	pen.DBF	4,444	5/3/2011	11:38 AM
64	PM_Tfac.dbf	27,604	11/22/2021	6:10 PM
65	schl.adr	508,428	5/26/2021	10:10 AM
66	StaAcc.dbf	259	3/27/2010	11:34 AM
67	station.DBF	232,506	10/3/2022	11:14 AM
68	tariff.txt	2,070	9/1/2021	4:34 PM
69	taxi.adr	537,789	5/26/2021	10:10 AM
70	TAZFRZN.ASC	301,268	8/23/2011	11:01 AM
71	Toll_Esc.dbf	26,215	10/8/2022	9:03 PM
72	TRNPEN.DAT	1,098	12/11/2010	4:28 PM
73	visi.adr	755,647	5/26/2021	10:10 AM
74	xtrawalk.dbf	1,278	3/27/2017	1:21 PM
75	xxaut.vtt	32,277	5/24/2021	5:00 PM
76	xxcvt.vtt	101,924	5/24/2021	5:00 PM
77	zone.dbf	521,625	4/28/2021	3:41 PM
	Total	242,202,437		

File List - Subdirectory:

\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\2030\Inputs

Seq. No.	File Name	Bytes	Date	Time
1	airpax.adr	223,316	6/1/2021	11:15 AM
2	AM_Tfac.dbf	95,710	10/14/2022	5:39 PM
3	areadef3722.prn	124,712	12/6/2010	11:59 PM
4	AreaWalk.txt	286,260	5/25/2023	8:43 AM
5	AT_override.TXT	155	9/14/2011	1:27 PM
6	Bus_Factor_File.dbf	1,774	3/16/2016	11:29 AM
7	BUS_PNRN.TB	11,486	10/11/2022	9:17 AM
8	BUSFARAM.ASC	1,999	9/10/2021	3:52 PM
9	BUSFAROP.ASC	1,999	9/10/2021	3:52 PM
10	COM_BUS.TB	5,180	10/11/2022	9:17 AM
11	COM_LINK.TB	3,763	10/11/2022	9:17 AM
12	COM_NODE.TB	3,058	10/11/2022	9:17 AM
13	COM_PNRN.TB	2,764	10/11/2022	9:17 AM
14	CPI_File.txt	2,735	6/16/2021	9:25 AM
15	Ext_PsAs.dbf	10,216	5/24/2021	5:00 PM
16	GIS_variables.DBF	886,093	6/11/2010	3:36 PM
17	HBO_NL_MC.MTT	45,784,071	8/21/2020	6:49 PM
18	HBS_NL_MC.MTT	30,168,162	8/21/2020	6:47 PM
19	HBW_NL_MC.MTT	63,702,350	8/21/2020	6:50 PM
20	Jur.dbf	241	3/27/2010	11:34 AM
21	link.DBF	29,118,006	10/11/2022	9:16 AM
22	LRT_BUS.TB	1,890	10/11/2022	9:17 AM
23	LRT_LINK.TB	1,420	10/11/2022	9:17 AM
24	LRT_NODE.TB	1,295	10/11/2022	9:17 AM
25	LRT_PNRN.TB	100	10/11/2022	9:17 AM
26	MD_Tfac.dbf	29,638	10/14/2022	5:42 PM
27	MET_BUS.TB	13,160	10/11/2022	9:17 AM
28	MET_LINK.TB	7,241	10/11/2022	9:17 AM
29	MET_NODE.TB	5,999	10/11/2022	9:17 AM
30	MET_PNRN.TB	2,619	10/11/2022	9:17 AM
31	MetLnkM1.TB	29,782	10/11/2022	9:17 AM
32	MetNodM1.TB	10,780	10/11/2022	9:17 AM
33	MFare1.a1	4,235	10/11/2022	9:17 AM
34	mfare1_Sta_Disc.ASC	2,100	3/10/2006	10:34 AM
35	MODE10AM.TB	8,751	10/11/2022	9:17 AM
36	MODE10OP.TB	7,234	10/11/2022	9:17 AM

File List - Subdirectory:

\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\2030\Inputs (continued)

Seq. No.	File Name	Bytes	Date	Time
37	MODE1AM.TB	311,920	10/11/2022	9:17 AM
38	MODE1OP.TB	264,460	10/11/2022	9:17 AM
39	MODE2AM.TB	44,826	10/11/2022	9:17 AM
40	MODE2OP.TB	23,212	10/11/2022	9:17 AM
41	MODE3AM.TB	6,235	10/11/2022	9:17 AM
42	MODE3OP.TB	6,966	10/11/2022	9:17 AM
43	MODE4AM.TB	11,568	10/11/2022	9:17 AM
44	MODE4OP.TB	7,595	10/11/2022	9:17 AM
45	MODE5AM.TB	2,055	10/11/2022	9:17 AM
46	MODE5OP.TB	3,787	10/11/2022	9:17 AM
47	MODE6AM.TB	270,894	10/11/2022	9:17 AM
48	MODE6OP.TB	211,258	10/11/2022	9:17 AM
49	MODE7AM.TB	14,667	5/19/2023	2:37 PM
50	MODE7OP.TB	20,618	10/11/2022	9:17 AM
51	MODE8AM.TB	110,941	5/19/2023	2:37 PM
52	MODE8OP.TB	125,629	5/19/2023	2:37 PM
53	MODE9AM.TB	129,775	5/19/2023	2:38 PM
54	MODE9OP.TB	56,979	5/19/2023	2:38 PM
55	NEW_BUS.TB	8,260	10/11/2022	9:17 AM
56	NEW_LINK.TB	8,236	10/11/2022	9:17 AM
57	NEW_NODE.TB	7,822	10/21/2022	9:53 AM
58	NEW_PNRN.TB	59	10/11/2022	9:17 AM
59	NHO_NL_MC.MTT	30,206,492	8/21/2020	6:48 PM
60	NHw_NL_MC.MTT	37,342,385	8/21/2020	6:49 PM
61	node.DBF	1,368,606	10/11/2022	9:16 AM
62	NT_Tfac.dbf	293,926	10/14/2022	5:43 PM
63	pen.DBF	4,444	5/3/2011	11:38 AM
64	PM_Tfac.dbf	29,638	10/14/2022	5:43 PM
65	schl.adr	519,483	5/26/2021	10:11 AM
66	StaAcc.dbf	259	3/27/2010	11:34 AM
67	Station.DBF	270,726	10/11/2022	9:18 AM
68	tariff.txt	2,070	9/1/2021	4:34 PM
69	taxi.adr	547,693	5/26/2021	10:11 AM
70	TAZFRZN.ASC	301,268	8/23/2011	11:01 AM
71	Toll_Esc.dbf	28,141	10/19/2022	4:50 AM
72	TRNPEN.DAT	1,098	12/11/2010	4:28 PM
73	visi.adr	774,439	5/26/2021	10:11 AM
74	xtrawalk.dbf	1,278	3/27/2017	1:21 PM
75	xxaut.vtt	32,261	5/24/2021	5:00 PM
76	xxcvt.vtt	102,040	5/24/2021	5:00 PM
77	zone.dbf	521,625	4/28/2021	3:41 PM
	Total	244,555,928		

File List - Subdirectory:

\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\2040\Inputs

Seq. No.	File Name	Bytes	Date	Time
1	airpax.adr	226,943	6/1/2021	11:15 AM
2	AM_Tfac.dbf	31,672	11/10/2021	4:22 PM
3	areadef3722.prn	124,712	12/6/2010	11:59 PM
4	AreaWalk.txt	286,260	5/26/2023	8:49 AM
5	AT_override.TXT	155	9/14/2011	1:27 PM
6	Bus_Factor_File.dbf	1,774	3/16/2016	11:29 AM
7	BUS_PNRN.TB	11,486	10/20/2022	3:49 PM
8	BUSFARAM.ASC	1,999	9/10/2021	3:52 PM
9	BUSFAROP.ASC	1,999	9/10/2021	3:52 PM
10	COM_BUS.TB	5,250	10/20/2022	3:48 PM
11	COM_LINK.TB	3,763	10/20/2022	3:48 PM
12	COM_NODE.TB	3,058	10/20/2022	3:49 PM
13	COM_PNRN.TB	2,764	10/20/2022	3:49 PM
14	CPI_File.txt	2,735	6/16/2021	9:25 AM
15	Ext_PsAs.dbf	10,216	5/24/2021	5:00 PM
16	GIS_variables.DBF	886,093	6/11/2010	3:36 PM
17	HBO_NL_MC.MTT	46,024,125	8/25/2020	6:01 PM
18	HBS_NL_MC.MTT	29,881,229	8/25/2020	5:59 PM
19	HBW_NL_MC.MTT	64,360,051	8/25/2020	6:02 PM
20	Jur.dbf	241	3/27/2010	11:34 AM
21	LINK.DBF	29,196,210	10/20/2022	4:06 PM
22	LRT_BUS.TB	1,890	10/20/2022	3:48 PM
23	LRT_LINK.TB	1,420	10/20/2022	3:48 PM
24	LRT_NODE.TB	1,295	10/20/2022	3:49 PM
25	LRT_PNRN.TB	100	10/20/2022	3:49 PM
26	MD_Tfac.dbf	31,672	11/10/2021	4:23 PM
27	MET_BUS.TB	13,160	10/20/2022	3:48 PM
28	MET_LINK.TB	7,241	10/20/2022	3:48 PM
29	MET_NODE.TB	5,999	10/20/2022	3:49 PM
30	MET_PNRN.TB	2,619	10/20/2022	3:49 PM
31	MetLnkM1.TB	29,782	10/20/2022	3:49 PM
32	MetNodM1.TB	10,780	10/20/2022	3:49 PM
33	MFare1.a1	4,235	10/20/2022	3:49 PM
34	mfare1_Sta_Disc.ASC	2,100	3/10/2006	10:34 AM
35	MODE10AM.TB	10,855	10/20/2022	3:48 PM
36	MODE10OP.TB	9,343	10/20/2022	3:48 PM

File List - Subdirectory:

\\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\2040\Inputs (continued)

Seq. No.	File Name	Bytes	Date	Time
37	MODE1AM.TB	313,238	10/20/2022	3:48 PM
38	MODE1OP.TB	265,810	10/20/2022	3:48 PM
39	MODE2AM.TB	44,842	10/20/2022	3:48 PM
40	MODE2OP.TB	23,274	10/20/2022	3:48 PM
41	MODE3AM.TB	6,767	10/20/2022	3:48 PM
42	MODE3OP.TB	6,966	10/20/2022	3:48 PM
43	MODE4AM.TB	11,574	10/20/2022	3:48 PM
44	MODE4OP.TB	7,595	10/20/2022	3:48 PM
45	MODE5AM.TB	2,055	10/20/2022	3:48 PM
46	MODE5OP.TB	3,787	10/20/2022	3:48 PM
47	MODE6AM.TB	273,764	10/20/2022	3:48 PM
48	MODE6OP.TB	214,116	10/20/2022	3:48 PM
49	MODE7AM.TB	20,083	5/19/2023	2:38 PM
50	MODE7OP.TB	20,618	10/20/2022	3:48 PM
51	MODE8AM.TB	110,941	5/19/2023	2:39 PM
52	MODE8OP.TB	125,629	5/19/2023	2:39 PM
53	MODE9AM.TB	129,704	5/19/2023	2:39 PM
54	MODE9OP.TB	56,879	5/19/2023	2:39 PM
55	NEW_BUS.TB	9,660	10/20/2022	3:49 PM
56	NEW_LINK.TB	9,869	10/20/2022	3:49 PM
57	NEW_NODE.TB	9,226	10/20/2022	3:49 PM
58	NEW_PNRN.TB	291	10/20/2022	3:49 PM
59	NHO_NL_MC.MTT	30,062,362	8/25/2020	6:01 PM
60	NHw_NL_MC.MTT	37,895,580	8/25/2020	6:01 PM
61	NODE.DBF	1,370,608	10/20/2022	4:06 PM
62	NT_Tfac.dbf	31,672	11/10/2021	4:23 PM
63	pen.DBF	4,444	5/3/2011	11:38 AM
64	PM_Tfac.dbf	31,672	11/10/2021	4:24 PM
65	schl.adr	513,253	5/26/2021	10:12 AM
66	StaAcc.dbf	259	3/27/2010	11:34 AM
67	Station.DBF	282,486	10/20/2022	3:50 PM
68	tariff.txt	2,070	9/1/2021	4:34 PM
69	taxi.adr	541,261	5/26/2021	10:12 AM
70	TAZFRZN.ASC	301,268	8/23/2011	11:01 AM
71	Toll_Esc.dbf	30,067	10/29/2022	12:21 AM
72	TRNPEN.DAT	1,098	12/11/2010	4:28 PM
73	visi.adr	757,927	5/26/2021	10:12 AM
74	xtrawalk.dbf	1,278	3/27/2017	1:21 PM
75	xxaut.vtt	32,262	5/24/2021	5:00 PM
76	xxcvt.vtt	102,137	5/24/2021	5:00 PM
77	zone.dbf	521,625	4/28/2021	3:41 PM
	Total	245,345,243		

File List - Subdirectory:

\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\2045\Inputs

Seq. No.	File Name	Bytes	Date	Time
1	airpax.adr	228,389	6/1/2021	11:15 AM
2	AM_Tfac.dbf	31,672	11/15/2021	10:04 PM
3	areadef3722.prn	124,712	12/6/2010	11:59 PM
4	AreaWalk.txt	286,260	5/28/2023	7:53 PM
5	AT_override.TXT	155	9/14/2011	1:27 PM
6	Bus_Factor_File.dbf	1,774	3/16/2016	11:29 AM
7	BUS_PNRN.TB	11,486	9/14/2022	2:30 PM
8	BUSFARAM.ASC	1,999	9/10/2021	3:52 PM
9	BUSFAROP.ASC	1,999	9/10/2021	3:52 PM
10	COM_BUS.TB	5,250	9/14/2022	2:30 PM
11	COM_LINK.TB	3,763	9/14/2022	2:29 PM
12	COM_NODE.TB	3,058	9/14/2022	2:30 PM
13	COM_PNRN.TB	2,764	9/14/2022	2:30 PM
14	CPI_File.txt	2,735	6/16/2021	9:25 AM
15	Ext_PsAs.dbf	10,216	5/24/2021	5:00 PM
16	GIS_variables.DBF	886,093	6/11/2010	3:36 PM
17	HBO_NL_MC.MTT	46,206,137	8/12/2020	12:00 AM
18	HBS_NL_MC.MTT	29,815,752	8/11/2020	11:59 PM
19	HBW_NL_MC.MTT	65,012,752	8/12/2020	12:01 AM
20	Jur.dbf	241	3/27/2010	11:34 AM
21	link.DBF	29,206,206	9/14/2022	2:54 PM
22	LRT_BUS.TB	1,960	9/14/2022	2:29 PM
23	LRT_LINK.TB	1,420	9/14/2022	2:29 PM
24	LRT_NODE.TB	1,295	9/14/2022	2:30 PM
25	LRT_PNRN.TB	100	9/14/2022	2:30 PM
26	MD_Tfac.dbf	31,672	11/15/2021	10:05 PM
27	MET_BUS.TB	13,300	9/14/2022	2:29 PM
28	MET_LINK.TB	7,241	9/14/2022	2:29 PM
29	MET_NODE.TB	5,999	9/14/2022	2:30 PM
30	MET_PNRN.TB	2,619	9/14/2022	2:30 PM
31	MetLnkM1.TB	29,782	9/14/2022	2:30 PM
32	MetNodM1.TB	10,780	9/14/2022	2:30 PM
33	MFare1.a1	4,235	9/14/2022	2:30 PM
34	mfare1_Sta_Disc.ASC	2,100	3/10/2006	10:34 AM
35	MODE10AM.TB	11,385	9/14/2022	2:29 PM
36	MODE10OP.TB	9,873	9/14/2022	2:29 PM

File List - Subdirectory:

\CGV2_4_6_2022_Update_Visualize2045_Rev_Xmittal\2045\Inputs (continued)

Seq. No.	File Name	Bytes	Date	Time
37	MODE1AM.TB	313,249	9/14/2022	2:29 PM
38	MODE1OP.TB	265,907	9/14/2022	2:29 PM
39	MODE2AM.TB	44,841	9/14/2022	2:29 PM
40	MODE2OP.TB	23,363	9/14/2022	2:29 PM
41	MODE3AM.TB	6,766	9/14/2022	2:29 PM
42	MODE3OP.TB	7,055	9/14/2022	2:29 PM
43	MODE4AM.TB	11,573	9/14/2022	2:29 PM
44	MODE4OP.TB	7,684	9/14/2022	2:29 PM
45	MODE5AM.TB	2,054	9/14/2022	2:29 PM
46	MODE5OP.TB	3,876	9/14/2022	2:29 PM
47	MODE6AM.TB	273,803	9/14/2022	2:29 PM
48	MODE6OP.TB	214,227	9/14/2022	2:29 PM
49	MODE7AM.TB	21,218	5/19/2023	2:40 PM
50	MODE7OP.TB	20,707	9/14/2022	2:29 PM
51	MODE8AM.TB	110,940	5/19/2023	2:40 PM
52	MODE8OP.TB	125,718	5/19/2023	2:41 PM
53	MODE9AM.TB	129,705	5/19/2023	2:41 PM
54	MODE9OP.TB	56,925	5/19/2023	2:41 PM
55	NEW_BUS.TB	10,500	9/14/2022	2:30 PM
56	NEW_LINK.TB	10,650	9/14/2022	2:30 PM
57	NEW_NODE.TB	9,952	9/14/2022	2:30 PM
58	NEW_PNRN.TB	291	9/14/2022	2:30 PM
59	NHO_NL_MC.MTT	29,981,714	8/12/2020	12:00 AM
60	NHw_NL_MC.MTT	38,169,794	8/12/2020	12:00 AM
61	node.DBF	1,370,685	9/14/2022	2:54 PM
62	NT_Tfac.dbf	31,672	11/15/2021	10:05 PM
63	pen.DBF	4,444	5/3/2011	11:38 AM
64	PM_Tfac.dbf	31,672	11/15/2021	10:06 PM
65	schl.adr	523,870	5/26/2021	10:12 AM
66	StaAcc.dbf	259	3/27/2010	11:34 AM
67	Station.DBF	288,366	9/14/2022	2:31 PM
68	tariff.txt	2,070	9/1/2021	4:34 PM
69	taxi.adr	539,411	5/26/2021	10:12 AM
70	TAZFRZN.ASC	301,268	8/23/2011	11:01 AM
71	Toll_Esc.dbf	30,067	9/21/2022	5:04 AM
72	TRNPEN.DAT	1,098	12/11/2010	4:28 PM
73	visi.adr	753,591	5/26/2021	10:12 AM
74	xtrawalk.dbf	1,278	3/27/2017	1:21 PM
75	xxaut.vtt	32,289	5/24/2021	5:00 PM
76	xxcvt.vtt	102,184	5/24/2021	5:00 PM
77	zone.dbf	521,625	4/28/2021	3:41 PM
	Total	246,335,535		

Table 2: Control Totals: Demographic and Travel Statistics (V2.4 w/ 8 cores)

		2017	2021	2023	2025	2030	2040	2045
1	Households	2,674,028	2,796,685	2,861,223	2,925,792	3,087,311	3,350,987	3,469,429
2	Jobs	4,067,658	4,267,398	4,368,515	4,469,345	4,711,797	5,142,730	5,331,504
3	HH Population	7,093,611	7,395,592	7,544,831	7,694,018	8,064,524	8,685,935	8,981,154
4	HH & GQ Population	7,226,857	7,534,192	7,684,722	7,835,184	8,207,550	8,833,374	9,129,396
5	HH_Inc1	736,575	772,056	791,232	810,424	859,268	940,305	976,839
6	HH_Inc2	828,585	867,241	887,687	908,143	959,902	1,045,124	1,083,755
7	HH_Inc3	549,784	575,100	588,242	601,388	633,934	686,363	710,056
8	HH_Inc4	559,116	582,318	594,096	605,875	634,245	679,239	698,825
9	HH_All_Incs	2,674,060	2,796,715	2,861,257	2,925,830	3,087,349	3,351,030	3,469,475
10	HH_Siz1	670,992	710,168	730,756	752,613	809,114	896,350	934,433
11	HH_Siz2	808,111	845,822	866,400	887,006	936,724	1,018,494	1,053,944
12	HH_Siz3	469,403	488,691	498,903	508,808	532,756	572,904	591,084
13	HH_Siz4	725,554	752,034	765,197	777,403	808,755	863,282	890,014
14	HH_ALL_Sizs	2,674,060	2,796,715	2,861,257	2,925,830	3,087,349	3,351,030	3,469,475
15	HH_VA0	240,759	266,498	274,065	293,365	325,628	387,528	409,371
16	HH_VA1	809,266	853,837	877,665	902,849	963,788	1,063,864	1,106,898
17	HH_VA2	1,021,765	1,058,827	1,081,933	1,097,586	1,145,214	1,218,765	1,256,431
18	HH_VA3+	602,270	617,553	627,593	632,030	652,719	680,872	696,774
19	HH_All_VAs	2,674,060	2,796,715	2,861,257	2,925,830	3,087,349	3,351,030	3,469,475
20	HBWAutoPsnXI	329,625	333,656	343,356	353,400	370,807	405,348	422,074
21	HBSAutoPsnXI	72,400	73,841	75,965	78,154	81,940	89,526	93,238
22	HBOAutoPsnXI	248,055	253,281	261,098	269,204	283,746	312,556	326,469
23	NHWAutoPsnXI	34,181	34,049	34,901	35,780	37,158	39,946	41,336
24	NHOAutoPsnXI	66,470	66,212	67,870	69,580	72,259	77,681	80,383
25	AutoPsnXI	750,731	761,039	783,191	806,118	845,910	925,057	963,500
26	HBWAutoPsnIX	206,174	207,897	213,442	219,163	228,576	247,497	256,833
27	HBSAutoPsnIX	72,095	75,783	77,956	80,188	84,043	91,636	95,307
28	HBOAutoPsnIX	350,414	355,056	366,101	377,550	398,149	439,130	458,985
29	NHWAutoPsnIX	34,179	34,046	34,898	35,775	37,155	39,944	41,330
30	NHOAutoPsnIX	66,465	66,207	67,863	69,569	72,252	77,676	80,371
31	AutoPsnIX	729,328	738,989	760,259	782,246	820,176	895,882	932,826
32	NonMotr_HBW Trips	162,702	180,127	189,370	199,141	222,584	266,445	285,628
33	NonMotr_HBS_Trips	349,454	391,848	412,959	433,856	490,127	597,201	645,068
34	NonMotr_HBO_Trips	970,504	1,055,095	1,097,548	1,136,380	1,242,742	1,441,971	1,541,387
35	NonMotr_NHW_Trips	494,480	517,642	529,775	541,047	571,432	621,883	644,150
36	NonMotr_NHO_Trips	385,511	402,909	412,117	420,364	443,069	480,996	497,955
37	NonMotr_ALL_Trips	2,362,651	2,547,621	2,641,769	2,730,790	2,969,954	3,408,497	3,614,189

Table 2: Continued

		2017	2021	2023	2025	2030	2040	2045
38	Ext_HBWAdr	465,905	470,911	484,170	497,876	521,196	567,679	590,343
39	Ext_HBSAdr	87,922	91,053	93,679	96,371	101,030	110,292	114,796
40	Ext_HBOAdr	371,505	377,642	389,363	401,515	423,339	466,692	487,670
41	Ext_NHWAdr	53,277	53,066	54,398	55,770	57,928	62,280	64,447
42	Ext_NHOAdr	103,759	103,351	105,936	108,608	112,796	121,267	125,485
43	Ext_ALLAdr	1,082,368	1,096,023	1,127,547	1,160,140	1,216,288	1,328,210	1,382,741
44	Ext_ComVeh	84,764	86,373	89,096	91,916	97,017	107,146	112,037
45	Ext_Medium_Trk	25,651	25,671	26,333	26,994	28,058	30,115	31,111
46	Ext_Heavy_Trk	30,911	31,103	31,976	32,878	34,400	37,339	38,729
47	MC_HBWPsN	4,045,968	4,223,742	4,312,907	4,397,057	4,620,191	4,977,175	5,139,022
48	MC_HBSPsN	3,198,826	3,295,577	3,348,322	3,398,948	3,522,532	3,700,358	3,791,843
49	MC_HBOPsN	7,436,344	7,703,851	7,837,518	7,960,836	8,284,197	8,791,119	9,020,325
50	MC_NHWPsN	1,675,722	1,734,699	1,765,840	1,792,852	1,865,212	1,974,805	2,026,862
51	MC_NHOPsN	3,387,884	3,505,326	3,567,969	3,622,336	3,765,485	3,986,797	4,096,059
52	MC_ALLPsN	19,744,743	20,463,196	20,832,556	21,172,029	22,057,617	23,430,254	24,074,110
53	MC_HBW_Trn	796,053	857,656	892,605	927,596	995,030	1,115,921	1,155,930
54	MC_HBS_Trn	26,057	26,933	27,676	28,505	30,048	30,687	30,996
55	MC_HBO_Trn	208,841	226,327	237,420	247,402	268,153	291,984	299,855
56	MC_NHW_Trn	86,321	98,687	105,834	109,153	118,276	131,300	129,795
57	MC_NHO_Trn	31,076	36,898	38,309	39,213	42,624	45,652	45,684
58	MC_All_Trn	1,148,348	1,246,501	1,301,844	1,351,868	1,454,131	1,615,544	1,662,261
59	HBW_TransitPct	19.68	20.31	20.70	21.10	21.54	22.42	22.49
60	HBS_TransitPct	0.81	0.82	0.83	0.84	0.85	0.83	0.82
61	HBO_TransitPct	2.81	2.94	3.03	3.11	3.24	3.32	3.32
62	NHW_TransitPct	5.15	5.69	5.99	6.09	6.34	6.65	6.40
63	NHO_TransitPct	0.92	1.05	1.07	1.08	1.13	1.15	1.12
64	ALL_TransitPct	5.82	6.09	6.25	6.39	6.59	6.90	6.90
65	MC_HBW_AutoPsN	3,249,915	3,366,087	3,420,302	3,469,462	3,625,161	3,861,254	3,983,092
66	MC_HBS_AutoPsN	3,172,769	3,268,644	3,320,647	3,370,443	3,492,483	3,669,671	3,760,847
67	MC_HBO_AutoPsN	7,227,502	7,477,524	7,600,097	7,713,434	8,016,044	8,499,135	8,720,470
68	MC_NHW_AutoPsN	1,589,401	1,636,013	1,660,006	1,683,699	1,746,936	1,843,505	1,897,066
69	MC_NHO_AutoPsN	3,356,808	3,468,427	3,529,660	3,583,123	3,722,862	3,941,145	4,050,375
70	MC_ALL_AutoPsN	18,596,395	19,216,695	19,530,712	19,820,161	20,603,486	21,814,710	22,411,850
71	Int_HBWAutoDrv	2,961,006	3,065,411	3,104,856	3,147,807	3,266,290	3,460,696	3,563,765
72	Int_HBSAutoDrv	2,088,811	2,150,498	2,183,551	2,215,082	2,293,353	2,406,502	2,465,126
73	Int_HBOAutoDrv	4,599,153	4,754,752	4,828,773	4,898,121	5,083,326	5,380,059	5,517,837
74	Int_NHWAutoDrv	1,323,083	1,356,428	1,365,918	1,378,389	1,418,583	1,471,933	1,511,588
75	Int_NHOAutoDrv	2,243,830	2,305,338	2,337,352	2,365,607	2,436,829	2,540,777	2,598,830
76	Int_ALLAutoDrv	13,215,883	13,632,427	13,820,450	14,005,006	14,498,382	15,259,966	15,657,145

Table 2: Continued

		2017	2021	2023	2025	2030	2040	2045
77	HBW_OCC	1.10	1.10	1.10	1.10	1.11	1.12	1.12
78	HBS_OCC	1.52	1.52	1.52	1.52	1.52	1.52	1.53
79	HBO_OCC	1.57	1.57	1.57	1.57	1.58	1.58	1.58
80	NHW_OCC	1.20	1.21	1.22	1.22	1.23	1.25	1.26
81	NHO_OCC	1.50	1.50	1.51	1.51	1.53	1.55	1.56
82	ALL_OCC	1.41	1.41	1.41	1.42	1.42	1.43	1.43
83	Int_CommVeh	1,114,428	1,168,150	1,196,601	1,224,886	1,291,443	1,406,147	1,456,746
84	Int_Med_Truck	457,064	477,276	487,262	496,803	521,375	561,485	583,004
85	Int_Hvy_Truck	106,604	111,836	114,147	116,348	121,870	131,175	136,511
86	ALL_HBWAdr	3,426,911	3,536,322	3,589,026	3,645,683	3,787,486	4,028,374	4,154,108
87	ALL_HBSAdr	2,176,733	2,241,551	2,277,229	2,311,453	2,394,383	2,516,794	2,579,922
88	ALL_HBOAdr	4,970,658	5,132,394	5,218,136	5,299,636	5,506,664	5,846,751	6,005,506
89	ALL_NHWAdr	1,376,360	1,409,495	1,420,316	1,434,158	1,476,511	1,534,213	1,576,035
90	ALL_NHOAdr	2,347,588	2,408,689	2,443,289	2,474,215	2,549,625	2,662,044	2,724,315
91	ALL_ALLAdr_MC	14,298,251	14,728,450	14,947,997	15,165,145	15,714,669	16,588,176	17,039,886
92	ALL_CV	1,199,192	1,254,523	1,285,697	1,316,802	1,388,460	1,513,293	1,568,783
93	ALL_Mtk	482,715	502,947	513,595	523,797	549,433	591,600	614,115
94	ALL_Htk	137,515	142,939	146,123	149,226	156,270	168,514	175,240
95	THRU_Truck	36,824	37,050	38,210	39,420	41,611	45,952	48,052
96	THRU_Auto&CV	47,464	47,772	49,242	50,765	53,468	58,781	61,312
97	Taxi_AutoDrv	132,487	139,034	142,270	145,694	153,612	167,495	173,632
98	Visitor/Tourist Adr	269,333	282,615	289,233	296,056	312,182	340,548	352,968
99	School AutoDrv	313,597	328,114	335,672	343,147	362,168	393,045	406,897
100	Final_Medium_Truck	533,970	552,836	562,381	571,942	595,795	634,826	655,823
101	Final_Heavy_Truck	146,642	151,033	153,312	155,637	161,065	170,524	175,961
102	AirPax_AutoDrv	70,843	76,421	79,390	82,343	90,612	109,653	120,889
103	Final_Comm_Veh	1,387,294	1,440,601	1,469,536	1,498,722	1,567,206	1,684,113	1,735,355
104	All_Veh_Trips_MC	17,236,704	17,783,926	18,067,243	18,348,869	19,052,388	20,193,114	20,770,777
105	TRIPS_per_HH	7.40	7.33	7.29	7.25	7.16	7.00	6.95
106	TRIPS_per_Pop	2.74	2.72	2.72	2.71	2.69	2.66	2.64
107	Total_VMT	166,577,956	171,468,719	174,756,311	178,288,881	185,343,542	197,879,169	204,510,786
108	VMTperCapita	23.05	22.76	22.74	22.75	22.58	22.40	22.40
109	VMTperHH	62.29	61.31	61.08	60.94	60.03	59.05	58.95
110	VMTperTrip	9.66	9.64	9.67	9.72	9.73	9.80	9.85