



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 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

DATE: November 14, 2022

Rev_Xmittal_Ver2.4_2022Upd_Viz2045_model_and_inputs_v3.docx

PURPOSE

This memorandum documents a transmittal package containing the latest National Capital Region Transportation Planning Board (TPB) production-use travel demand forecasting model (Gen2/Version 2.4 Travel Model) and its associated input files, i.e., zonal land use data and transportation network files (highway and transit networks). Note that the transit networks have been updated, compared to the previous transmittal package,¹ as is noted in the description below. The input data are from 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). The TPB approved the AQC determination on June 15, 2022. Since the Ver. 2.4 Model was used for that analysis, it is now considered the adopted, production-use travel demand model.

The TPB is staffed by the Department of Transportation (DTP), at the Metropolitan Washington Council of Governments (COG). After the release of the latest Ver. 2.4 Model transmittal package, dated June 15, 2022, COG/TPB staff found a coding error in the transit network inputs files, which was associated with park-and-ride (PNR) and kiss-and-ride (KNR) access to some bus lines. This network coding error, referred to as the 15000-series node error, resulted in unneeded bus stop nodes in transit networks, which, in turn, resulted in reduced PNR and KNR bus trips in the travel model. COG/TPB staff have made the network corrections and conducted a sensitivity test to determine the impact of this error. Based on the sensitivity test, this error had a very marginal impact on regional travel metrics, such as VMT (+0.2%), and had no material effect on the Air Quality Conformity Determination results.

The previous Ver. 2.4 model/input file transmittal package (i.e., the 2020 update to the LRTP), dated March 17, 2021, did not have this error. However, the latest Ver. 2.4 model/input file transmittal package (i.e., the 2022 update to the LRTP), dated June 15, 2022, did have the error. Based on COG/TPB staff's assessment, this network coding error should not cause problems for model users who are using the Ver. 2.4 Model for a study that is focused on regional results or a highway

¹ Meseret Seifu to Mark S. 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," Memorandum, June 15, 2022, <https://www.mwcog.org/transportation/data-and-tools/modeling/data-requests/>.

projects. However, the updated transmittal package with the corrected transit network input files, which is being transmitted along with this memorandum, is strongly recommended for transportation planning studies focused on transit, especially bus, and especially at the project level.

CONTENT OF THE MODEL TRANSMITTAL PACKAGE

Model: The TPB’s adopted, production-use travel demand forecasting model (Version 2.4) is an aggregate, trip-based, “four-step” travel demand model, which is derived from the Ver. 2.3 Model. Both the Ver. 2.3 and Ver. 2.4 models are members of the Generation 2 (Gen2) family of travel models. The Ver. 2.4 Travel Model covers a modeled area of 6,800 square miles, which is divided into 3,722 Transportation Analysis Zones (TAZs). Although the Gen2/Ver. 2.4 Model is offered for free by COG/TPB staff to those who request it,² to run the model, one must have a copy of the Cube Voyager travel demand modeling software package, which is sold by Bentley Systems, Inc.³

The TPB staff updates, with consultant assistance, its regional travel demand forecasting model on a regular basis. The Version 2.4 Travel Model was derived from the Version 2.3 Travel Model, which was calibrated and validated to year-2007 conditions.⁴ It was later re-validated to both year-2010 and year-2014 conditions.^{5 6} The most recent validation, to year-2014 conditions, was conducted using the Ver. 2.4 Model in 2020.⁷

Please note that the Ver. 2.4 Model has already been released for production use since March 26, 2021.⁸ However, the model was not considered an “adopted” model until its June 15, 2022 release, since, prior to the air quality conformity analysis of the 2022 update of Visualize 2045, the Ver. 2.4 Model had not been used in an analysis that was adopted by the TPB. The Ver. 2.4 Model transmittal package that has been provided to stakeholders between March 26, 2021, and June 14, 2022 included the same Ver. 2.4 Model, but the input data was from the older 2020 Amendment to Visualize 2045 network inputs and Round 9.1a Cooperative Forecasts of land use.

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 includes transportation networks representing seven years, with updated transit networks compared

² “Data Requests,” Metropolitan Washington Council of Governments, Transportation, Modeling, June 28, 2022, <https://www.mwcog.org/transportation/data-and-tools/modeling/data-requests/>.

³ “CUBE Voyager,” Bentley Systems, 2022, <https://www.bentley.com/en/products/product-line/mobility-simulation-and-analytics/cube-voyager>.

⁴ 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/>.

⁵ 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/>.

⁶ 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.

⁷ Meseret Seifu to Feng Xie, “Year-2014 Validation of TPB Version 2.4 Travel Model,” Memorandum, October 29, 2020

⁸ Feng Xie, “Release of the COG/TPB Gen2/Version 2.4 Travel Demand Forecasting Model”, Presentation to the Travel Forecasting Subcommittee (TFS), March 26, 2021.

to the [June 15, 2022, transmittal package](#). The latest networks report ⁹ associated with this transmittal package can be found on the “Model Documentation” webpage.

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

BACKGROUND INFORMATION

For quality control purposes, staff has executed all modeling scenarios twice 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, 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 Model user’s guide, the Ver. 2.4 Model was developed using Cube Voyager ver. 6.4.1, so it is generally **recommended that you use Cube 6.4.1** with the Ver. 2.4 Model. See the user’s guide for more details. 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 (Gen2/Ver. 2.4 Travel Model) 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 Model Application Subdirectories

Subdirectories	Bytes	# Files	Subdirectory Description
\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised	278,914	51	Batch Files for model execution
\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\controls	354,773	14	Control files for special programs
\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\scripts	1,364,574	60	Cube/Voyager script files
\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\software	2,611,179	5	Software executable programs
\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\support	65,493,914	30	Model support / parameter files
\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\Assignment_Summary	26,107	4	Model summary scripts
\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\Summary	273,716	11	Model summary scripts
\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\Docums	7,027,398	6	Documentation
\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\TPBTAZ3722_TPBMMod	27,755,101	14	GIS shape file of the 3,722-zone system
\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\2017\Inputs	234,228,935	77	Input files pertaining to 2017
\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\2021\Inputs	238,912,522	77	Input files pertaining to 2021
\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\2023\Inputs	239,045,431	77	Input files pertaining to 2023
\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\2025\Inputs	242,208,784	77	Input files pertaining to 2025
\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\2030\Inputs	244,562,275	77	Input files pertaining to 2030
\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\2040\Inputs	245,351,590	77	Input files pertaining to 2040
\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\2045\Inputs	246,341,882	77	Input files pertaining to 2045
Total	1,795,837,095	734	

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
4. Control totals resulting from a full application of the model

APPLYING THE MODEL

The Ver. 2.4 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, 2021, 2023, 2025, 2030, 2040, or 2045 (the filename shown is entered at the command prompt in the “root” subdirectory):

- run_Model_2017.bat
- run_Model_2021.bat
- run_Model_2023.bat
- run_Model_2025.bat
- run_Model_2030.bat
- run_Model_2040.bat
- run_Model_2045.bat

As noted in the model user’s guide (Sec. 3.2), 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** and the output **areawalk.txt** files are provided in the “Inputs” subdirectory.

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 21) 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_2022_Update_Visualize2045_Xmittal_Revised\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**)
- 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_2022_Update_Visualize2045_Xmittal_Revised

Seq. No.	File Name	Bytes	Date	Time
1	run_Model_2017.bat	2,358	9/28/2022	11:10 AM
2	run_Model_2021.bat	2,359	10/6/2022	8:41 AM
3	run_Model_2023.bat	2,359	10/26/2022	4:50 PM
4	run_Model_2025.bat	2,360	10/20/2022	11:54 AM
5	run_Model_2030.bat	2,359	10/26/2022	4:49 PM
6	run_Model_2040.bat	2,359	11/7/2022	9:15 AM
7	run_Model_2045.bat	2,362	10/14/2022	8:48 AM
8	run_ModelSteps_2017.bat	3,626	11/1/2022	3:32 PM
9	run_ModelSteps_2021.bat	3,627	11/1/2022	3:32 PM
10	run_ModelSteps_2023.bat	3,627	11/1/2022	3:32 PM
11	run_ModelSteps_2025.bat	3,626	11/1/2022	3:32 PM
12	run_ModelSteps_2030.bat	3,625	11/1/2022	3:33 PM
13	run_ModelSteps_2040.bat	3,622	11/7/2022	9:15 AM
14	run_ModelSteps_2045.bat	3,626	11/1/2022	3:33 PM
15	ArcPy_Walkshed_Process.bat	5,879	3/22/2019	2:20 PM
16	Auto_Driver.bat	650	2/13/2012	12:16 PM
17	Average_Link_Speeds.bat	1,112	4/16/2019	10:33 AM
18	copyBaseMC_to_final_inputs.bat	545	2/13/2012	12:16 PM
19	dateName.bat	396	2/13/2012	12:16 PM
20	DBF_Converter_v3.2.xls	73,728	2/13/2012	12:16 PM
21	Delete-move_temp_files_v6.bat	4,812	5/8/2017	1:53 PM
22	gap_of_zero.txt	22,488	2/13/2012	12:16 PM
23	Highway_Assignment_Parallel.bat	816	6/18/2019	3:27 PM
24	Highway_Skims.bat	2,257	4/16/2019	10:33 AM
25	HSR_Highway_Skims.bat	2,597	12/9/2012	8:09 AM
26	MC_Purp.bat	479	1/23/2013	11:11 AM
27	Mode_Choice_Parallel.bat	4,249	12/4/2012	3:23 PM
28	Mode_Choice_TC_V23_Parallel.bat	8,151	3/22/2018	9:47 AM
29	move_temp_files_v6.bat	4,793	11/2/2017	10:58 AM
30	no_underscore.txt	16,438	12/6/2012	1:20 PM
31	PP_Auto_Drivers.bat	524	2/13/2012	12:16 PM
32	PP_Highway_Build.BAT	690	2/13/2012	12:16 PM
33	PP_Highway_Skims.bat	4,630	3/30/2018	2:37 PM
34	searchForErrs.bat	4,500	4/23/2014	6:30 PM
35	set_CPI.bat	578	2/13/2012	12:16 PM
36	set_up_model_run_folders.bat	999	12/20/2012	4:12 PM
37	setErrorLev.bat	179	12/26/2012	2:23 PM
38	Tee.exe	47,104	2/13/2012	12:16 PM
39	Time-of-Day.bat	2,024	2/13/2012	12:16 PM
40	TIMETHIS.EXE	8,704	2/13/2012	12:16 PM
41	tppVoyVers.txt	1,000	10/27/2022	7:28 AM
42	Transit_Assignment_LineHaul_Parallel.bat	712	12/4/2012	3:59 PM
43	Transit_Assignment_Parallel.bat	2,575	12/7/2012	11:31 AM
44	Transit_Fare.bat	2,604	5/17/2016	10:15 AM
45	Transit_Skim_All_Modes_Parallel.bat	4,608	5/11/2016	9:25 AM
46	Transit_Skim_LineHaul_Parallel.bat	621	12/3/2012	1:32 PM
47	Transit_Skim_Select_Paths.bat	360	2/13/2012	12:16 PM
48	TranSum.bat	946	11/26/2012	8:16 AM
49	Trip_Distribution.bat	2,137	5/17/2016	10:21 AM
50	Trip_Generation.bat	1,387	12/3/2012	4:06 PM
51	updating_tpp_dll_files.bat	744	2/13/2012	12:16 PM
	Total	278,911		

File List - Subdirectory:

\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\Controls

Seq. No.	File Name	Bytes	Date	Time
1	hbo_nl_mc.ctf	52,635	11/11/2019	11:30 PM
2	HBO_NL_MC.GOL	4,965	11/8/2019	1:12 PM
3	hbs_nl_mc.ctf	52,637	11/11/2019	11:30 PM
4	HBS_NL_MC.GOL	4,965	11/8/2019	1:12 PM
5	hbw_nl_mc.ctf	52,607	11/11/2019	11:30 PM
6	HBW_NL_MC.GOL	4,965	11/8/2019	1:12 PM
7	lineSum_MR_access.ctf	862	4/14/2015	10:54 AM
8	lineSum_MR_line.ctf	640	4/14/2015	10:48 AM
9	LineSum_Volume.ctf	1,608	11/21/2012	12:52 PM
10	nho_nl_mc.ctf	48,252	11/11/2019	11:30 PM
11	NHO_NL_MC.GOL	4,965	11/8/2019	1:12 PM
12	nhw_nl_mc.ctf	48,252	11/11/2019	11:30 PM
13	NHW_NL_MC.GOL	4,965	11/8/2019	1:12 PM
14	station_names.dbf	72,455	11/25/2012	9:47 PM
	Total	354,773		

File List - Subdirectory:

\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\Scripts

Seq. No.	File Name	Bytes	Date	Time
1	Adjust_Runtime.s	4,681	3/30/2016	10:16 AM
2	AreaType_File.s	9,621	2/13/2012	1:21 PM
3	Assemble_Skims_AB.s	4,973	4/15/2014	4:19 PM
4	Assemble_Skims_BM.s	4,975	4/15/2014	4:19 PM
5	Assemble_Skims_CR.s	3,772	4/15/2014	5:46 PM
6	Assemble_Skims_MR.s	4,975	4/15/2014	4:19 PM
7	Autoacc5.s	26,082	3/11/2020	3:55 PM
8	Average_Link_Speeds.s	15,395	4/16/2019	11:33 AM
9	CheckStationAccess.s	814	3/30/2018	3:51 PM
10	Combine_Tables_For_TrAssign_Parallel.s	2,600	12/4/2012	5:00 PM
11	Demo_Models.s	59,264	12/5/2012	10:39 AM
12	Highway_Assignment_Parallel.s	86,030	3/11/2020	3:55 PM
13	Highway_Skims_am.s	13,427	3/11/2020	3:55 PM
14	Highway_Skims_md.s	13,426	3/9/2016	5:09 PM
15	Highway_Skims_mod_am.s	8,210	3/9/2016	5:09 PM
16	Highway_Skims_mod_md.s	8,211	3/9/2016	5:09 PM
17	joinskims.s	1,443	3/21/2018	9:39 AM
18	Maryland1900Ft_ShapefileProjection_TEMPLATE.prj	534	9/10/2013	9:39 AM
19	MC_Auto_Drivers.s	10,832	12/4/2012	4:41 PM
20	MC_Constraint_V23.s	47,014	4/3/2012	4:25 PM
21	MC_NL_Summary.s	26,518	1/27/2016	2:34 PM
22	Metrorail_skims.s	2,687	12/4/2012	4:02 PM
23	MFARE1.S	8,761	2/13/2012	1:21 PM
24	MFARE2.S	27,663	12/4/2012	4:07 PM
25	Misc_Time-of-Day.s	20,703	12/4/2012	1:05 PM
26	modnet.s	975	12/3/2012	12:37 PM
27	MWCOG_ArcPy_Walkshed_Process.py	45,098	3/22/2019	3:20 PM
28	MWCOG_ArcPy_Walkshed_Process_TEMPLATE.mxd	288,768	3/22/2014	5:04 PM
29	MWCOG_Prepare_Inputs_to_Walkshed_Process_PT.s	13,539	3/14/2014	7:55 AM
30	MWCOG_Prepare_Inputs_to_Walkshed_Process_TRNBUILD.s	9,340	3/13/2014	8:48 PM
31	Parker.s	7,023	3/11/2020	3:56 PM
32	pathTrace.s	3,195	2/13/2012	1:21 PM
33	PP_Auto_Drivers.s	19,521	12/6/2012	10:17 AM
34	prefarV23.s	19,909	12/4/2012	3:53 PM
35	Prepare_Ext_Auto_Ends.s	43,311	2/21/2019	2:48 PM
36	Prepare_Ext_ComTruck_Ends.s	10,187	12/4/2012	10:21 AM
37	Prepare_Internal_Ends.s	32,007	3/18/2013	10:47 AM
38	Prepare_Trip_Tables_for_Assignment.s	32,319	12/4/2012	1:13 PM

File List - Subdirectory:

\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\Scripts (continued)

Seq. No.	File Name	Bytes	Date	Time
39	Refine_Station_File.s	1,855	2/13/2012	1:21 PM
40	Remove_PP_Speed.s	351	2/13/2012	1:21 PM
41	Set_CPI.S	4,914	2/13/2012	1:21 PM
42	Set_Factors.s	21,172	4/14/2015	10:46 AM
43	Time-of-Day.s	25,511	12/4/2012	1:02 PM
44	Transit_Accessibility.s	3,055	12/3/2012	4:54 PM
45	Transit_Assignment_AB.s	12,191	3/11/2020	8:44 AM
46	Transit_Assignment_BM.s	12,195	3/11/2020	8:44 AM
47	Transit_Assignment_CR.s	10,859	3/11/2020	8:44 AM
48	Transit_Assignment_MR.s	12,014	3/11/2020	8:44 AM
49	Transit_Skims_AB.s	16,926	3/11/2020	8:44 AM
50	Transit_Skims_BM.s	17,274	3/11/2020	8:44 AM
51	Transit_Skims_CR.s	15,393	3/11/2020	8:44 AM
52	Transit_Skims_MR.s	16,577	3/11/2020	8:44 AM
53	Trip_Distribution_External.s	44,091	1/20/2020	1:06 PM
54	Trip_Distribution_Internal.s	32,894	3/18/2013	3:14 PM
55	Trip_Generation.s	80,357	9/10/2019	11:06 AM
56	Trip_Generation_Summary.s	50,055	3/4/2013	2:20 PM
57	Truck_Com_Trip_Generation.s	17,471	12/10/2012	9:18 AM
58	unbuild_net.s	1,128	3/11/2020	3:28 PM
59	V2.3_Highway_Build.s	14,337	3/13/2013	4:34 PM
60	walkacc.s	16,151	3/11/2020	8:42 AM
Total		1,364,574		

File List - Subdirectory:

\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\Software

Seq. No.	File Name	Bytes	Date	Time
1	AEMS.exe	195,900	2/13/2012	1:21 PM
2	cw3240.dll	827,392	2/13/2012	1:21 PM
3	DFORMD.dll	425,984	2/13/2012	1:21 PM
4	extrtab.exe	464,559	2/13/2012	1:21 PM
5	LineSum.exe	697,344	3/26/2014	7:34 AM
Total		2,611,179		

File List - Subdirectory:

\\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\Support

Seq. No.	File Name	Bytes	Date	Time
1	AM_SPD_LKP.txt	634	2/13/2012	01:22 PM
2	AttrRates.dbf	3,264	2/13/2012	01:22 PM
3	cvdelta_3722.trp	8,766,338	2/13/2012	01:22 PM
4	equiv_toll_min_by_inc.s	1,085	2/13/2012	01:22 PM
5	HBIncRat.dbf	3,386	2/13/2012	01:22 PM
6	hwy_assign_capSpeedLookup.s	1,312	9/6/2019	09:59 AM
7	hwy_assign_conical_vdf.s	2,621	2/13/2012	01:22 PM
8	MD_SPD_LKP.txt	638	2/13/2012	01:22 PM
9	NMARates.dbf	3,350	2/13/2012	01:22 PM
10	NMPRates.dbf	3,386	2/13/2012	01:22 PM
11	TAZ3722_to_7Mrkts.txt	124,712	2/13/2012	01:22 PM
12	tkdelta_3722.trp	13,835,438	2/13/2012	01:22 PM
13	todcomp_2008HTS.dbf	3,657	2/13/2012	01:22 PM
14	Toll_Minutes.TXT	1,311	2/13/2012	01:22 PM
15	TPBMod_Jur_Boundary.dbf	10,332	11/20/2012	03:20 PM
16	TPBMod_Jur_Boundary.prj	534	11/20/2012	03:20 PM
17	TPBMod_Jur_Boundary.sbn	428	11/20/2012	03:20 PM
18	TPBMod_Jur_Boundary.sbx	164	11/20/2012	03:20 PM
19	TPBMod_Jur_Boundary.shp	3,709,208	11/20/2012	03:20 PM
20	TPBMod_Jur_Boundary.shp.xml	143,582	11/20/2012	03:20 PM
21	TPBMod_Jur_Boundary.shx	308	11/20/2012	03:20 PM
22	Truck_Com_Trip_Rates.DBF	1,838	2/13/2012	01:22 PM
23	True_Shape_2040_Nov20.dbf	24,991,127	1/17/2019	03:06 PM
24	True_Shape_2040_Nov20.prj	534	11/20/2012	10:38 AM
25	True_Shape_2040_Nov20.sbn	580,036	11/20/2012	10:38 AM
26	True_Shape_2040_Nov20.sbx	21,012	11/20/2012	10:38 AM
27	True_Shape_2040_Nov20.shp	12,700,204	11/20/2012	10:38 AM
28	True_Shape_2040_Nov20.shx	497,404	11/20/2012	10:38 AM
29	Ver23_f_factors.dbf	77,525	2/21/2019	02:37 PM
30	weighted_trip_rates.dbf	8,546	2/13/2012	01:22 PM
	Total	65,493,914		

File List - Subdirectory:

\\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\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_2022_Update_Visualize2045_Xmittal_Revised\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_3722taz_access.s	92,853	10/31/2022	9:54 AM
	Total	273,716		

File List - Subdirectory:

\\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\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_Validation_Memo_v6.pdf	669,351	10/29/2020	12:34 PM
	bytes	7,027,398		

File List - Subdirectory:

\\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\TPBTAZ3722_TPBMod

Seq. No.	File Name	Bytes	Date	Time
1	TAZLand3722.dbf	697,496	3/23/2014	6:07 PM
2	TAZLand3722.prj	534	3/23/2014	6:07 PM
3	TAZLand3722.sbn	35,228	3/23/2014	6:07 PM
4	TAZLand3722.sbx	2,076	3/23/2014	6:07 PM
5	TAZLand3722.shp	13,091,944	3/23/2014	6:07 PM
6	TAZLand3722.shp.xml	156,131	3/23/2014	6:07 PM
7	TAZLand3722.shx	29,452	3/23/2014	6:07 PM
8	TPBTAZ3722_TPBMod.dbf	903,024	3/21/2014	1:40 PM
9	TPBTAZ3722_TPBMod.prj	534	2/13/2014	6:24 PM
10	TPBTAZ3722_TPBMod.sbn	35,228	2/13/2012	1:22 PM
11	TPBTAZ3722_TPBMod.sbx	2,076	2/13/2012	1:22 PM
12	TPBTAZ3722_TPBMod.shp	12,617,172	3/21/2014	1:40 PM
13	TPBTAZ3722_TPBMod.shp.xml	154,754	3/21/2014	1:40 PM
14	TPBTAZ3722_TPBMod.shx	29,452	3/21/2014	1:40 PM
	Total	27,755,101		

File List - Subdirectory:
 \CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\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	3/14/2022	10:34 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	11,046	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_2022_Update_Visualize2045_Xmittal_Revised\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.vtt	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_2022_Update_Visualize2045_Xmittal_Revised\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	10/6/2022	10:12 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	11,369	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_2022_Update_Visualize2045_Xmittal_Revised\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	112,833	9/14/2022	10:27 AM
52	MODE8OP.TB	127,073	9/14/2022	10:27 AM
53	MODE9AM.TB	132,020	9/14/2022	10:27 AM
54	MODE9OP.TB	57,940	9/14/2022	10:27 AM
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	xxcv.vtt	101,851	5/24/2021	5:00 PM
77	zone.dbf	521,625	4/28/2021	4:35 PM
	Total	238,912,522		

File List - Subdirectory:

\\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\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	10/18/2022	3:58 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	11,432	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_2022_Update_Visualize2045_Xmittal_Revised\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	8,849	9/23/2022	9:12 AM
50	MODE7OP.TB	14,468	9/23/2022	9:12 AM
51	MODE8AM.TB	112,832	9/23/2022	9:12 AM
52	MODE8OP.TB	127,072	9/23/2022	9:12 AM
53	MODE9AM.TB	131,839	9/23/2022	9:12 AM
54	MODE9OP.TB	57,939	9/23/2022	9:12 AM
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	xxcvt.vtt	101,898	5/24/2021	5:00 PM
77	zone.dbf	521,625	4/28/2021	4:35 PM
	Total	239,045,431		

File List - Subdirectory:

\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\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	10/20/2022	2:36 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	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_2022_Update_Visualize2045_Xmittal_Revised\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	14,904	10/3/2022	11:12 AM
50	MODE7OP.TB	20,530	10/3/2022	11:12 AM
51	MODE8AM.TB	112,833	10/3/2022	11:13 AM
52	MODE8OP.TB	127,073	10/3/2022	11:13 AM
53	MODE9AM.TB	131,812	10/3/2022	11:13 AM
54	MODE9OP.TB	57,974	10/3/2022	11:13 AM
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	xxcv.vtt	101,924	5/24/2021	5:00 PM
77	zone.dbf	521,625	4/28/2021	3:41 PM
	Total	242,208,784		

File List - Subdirectory:

\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\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	10/26/2022	6:21 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	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_2022_Update_Visualize2045_Xmittal_Revised\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	14,904	10/11/2022	9:17 AM
50	MODE7OP.TB	20,618	10/11/2022	9:17 AM
51	MODE8AM.TB	112,833	10/11/2022	9:17 AM
52	MODE8OP.TB	127,161	10/11/2022	9:17 AM
53	MODE9AM.TB	131,578	10/11/2022	9:17 AM
54	MODE9OP.TB	57,862	10/11/2022	9:17 AM
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	xxcv.vtt	102,040	5/24/2021	5:00 PM
77	zone.dbf	521,625	4/28/2021	3:41 PM
	Total	244,562,275		

File List - Subdirectory:

\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\2040\Inputs

Seq. No.	File Name	Bytes	Date	Time
1	airpax.adr	226,943	6/1/2021	10:15 AM
2	AM_Tfac.dbf	31,672	11/10/2021	3:22 PM
3	areadef3722.prn	124,712	12/6/2010	10:59 PM
4	AreaWalk.txt	286,260	11/7/2022	12:44 PM
5	AT_override.TXT	155	9/14/2011	12:27 PM
6	Bus_Factor_File.dbf	1,774	3/16/2016	10:29 AM
7	BUS_PNRN.TB	11,486	10/20/2022	2:49 PM
8	BUSFARAM.ASC	1,999	9/10/2021	2:52 PM
9	BUSFAROP.ASC	1,999	9/10/2021	2:52 PM
10	COM_BUS.TB	5,250	10/20/2022	2:48 PM
11	COM_LINK.TB	3,763	10/20/2022	2:48 PM
12	COM_NODE.TB	3,058	10/20/2022	2:49 PM
13	COM_PNRN.TB	2,764	10/20/2022	2:49 PM
14	CPI_File.txt	2,735	6/16/2021	8:25 AM
15	Ext_PsAs.dbf	10,216	5/24/2021	4:00 PM
16	GIS_variables.DBF	886,093	6/11/2010	2:36 PM
17	HBO_NL_MC.MTT	46,024,125	8/25/2020	5:01 PM
18	HBS_NL_MC.MTT	29,881,229	8/25/2020	4:59 PM
19	HBW_NL_MC.MTT	64,360,051	8/25/2020	5:02 PM
20	Jur.dbf	241	3/27/2010	10:34 AM
21	LINK.DBF	29,196,210	10/20/2022	3:06 PM
22	LRT_BUS.TB	1,890	10/20/2022	2:48 PM
23	LRT_LINK.TB	1,420	10/20/2022	2:48 PM
24	LRT_NODE.TB	1,295	10/20/2022	2:49 PM
25	LRT_PNRN.TB	100	10/20/2022	2:49 PM
26	MD_Tfac.dbf	31,672	11/10/2021	3:23 PM
27	MET_BUS.TB	13,160	10/20/2022	2:48 PM
28	MET_LINK.TB	7,241	10/20/2022	2:48 PM
29	MET_NODE.TB	5,999	10/20/2022	2:49 PM
30	MET_PNRN.TB	2,619	10/20/2022	2:49 PM
31	MetLnkM1.TB	29,782	10/20/2022	2:49 PM
32	MetNodM1.TB	10,780	10/20/2022	2:49 PM
33	MFare1.a1	4,235	10/20/2022	2:49 PM
34	mfare1_Sta_Disc.ASC	2,100	3/10/2006	9:34 AM
35	MODE10AM.TB	10,855	10/20/2022	2:48 PM
36	MODE10OP.TB	9,343	10/20/2022	2:48 PM

File List - Subdirectory:

\CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\2040\Inputs (continued)

Seq. No.	File Name	Bytes	Date	Time
37	MODE1AM.TB	313,238	10/20/2022	2:48 PM
38	MODE1OP.TB	265,810	10/20/2022	2:48 PM
39	MODE2AM.TB	44,842	10/20/2022	2:48 PM
40	MODE2OP.TB	23,274	10/20/2022	2:48 PM
41	MODE3AM.TB	6,767	10/20/2022	2:48 PM
42	MODE3OP.TB	6,966	10/20/2022	2:48 PM
43	MODE4AM.TB	11,574	10/20/2022	2:48 PM
44	MODE4OP.TB	7,595	10/20/2022	2:48 PM
45	MODE5AM.TB	2,055	10/20/2022	2:48 PM
46	MODE5OP.TB	3,787	10/20/2022	2:48 PM
47	MODE6AM.TB	273,764	10/20/2022	2:48 PM
48	MODE6OP.TB	214,116	10/20/2022	2:48 PM
49	MODE7AM.TB	20,320	10/20/2022	2:48 PM
50	MODE7OP.TB	20,618	10/20/2022	2:48 PM
51	MODE8AM.TB	112,833	10/20/2022	2:48 PM
52	MODE8OP.TB	127,161	10/20/2022	2:48 PM
53	MODE9AM.TB	131,507	10/20/2022	2:48 PM
54	MODE9OP.TB	57,762	10/20/2022	2:48 PM
55	NEW_BUS.TB	9,660	10/20/2022	2:49 PM
56	NEW_LINK.TB	9,869	10/20/2022	2:49 PM
57	NEW_NODE.TB	9,226	10/20/2022	2:49 PM
58	NEW_PNRN.TB	291	10/20/2022	2:49 PM
59	NHO_NL_MC.MTT	30,062,362	8/25/2020	5:01 PM
60	NHw_NL_MC.MTT	37,895,580	8/25/2020	5:01 PM
61	NODE.DBF	1,370,608	10/20/2022	3:06 PM
62	NT_Tfac.dbf	31,672	11/10/2021	3:23 PM
63	pen.DBF	4,444	5/3/2011	10:38 AM
64	PM_Tfac.dbf	31,672	11/10/2021	3:24 PM
65	schl.adr	513,253	5/26/2021	9:12 AM
66	StaAcc.dbf	259	3/27/2010	10:34 AM
67	Station.DBF	282,486	10/20/2022	2:50 PM
68	tariff.txt	2,070	9/1/2021	3:34 PM
69	taxi.adr	541,261	5/26/2021	9:12 AM
70	TAZFRZN.ASC	301,268	8/23/2011	10:01 AM
71	Toll_Esc.dbf	30,067	10/28/2022	11:21 PM
72	TRNPEN.DAT	1,098	12/11/2010	3:28 PM
73	visi.adr	757,927	5/26/2021	9:12 AM
74	xtrawalk.dbf	1,278	3/27/2017	12:21 PM
75	xxaut.vtt	32,262	5/24/2021	4:00 PM
76	xxcvt.vtt	102,137	5/24/2021	4:00 PM
77	zone.dbf	521,625	4/28/2021	2:41 PM
	Total	245,351,590		

File List - Subdirectory:
 \CGV2_4_2022_Update_Visualize2045_Xmittal_Revised\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	10/14/2022	10:22 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	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_2022_Update_Visualize2045_Xmittal_Revised\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	21,455	9/14/2022	2:29 PM
50	MODE7OP.TB	20,707	9/14/2022	2:29 PM
51	MODE8AM.TB	112,832	9/14/2022	2:29 PM
52	MODE8OP.TB	127,250	9/14/2022	2:29 PM
53	MODE9AM.TB	131,508	9/14/2022	2:29 PM
54	MODE9OP.TB	57,808	9/14/2022	2:29 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	xxcv.vtt	102,184	5/24/2021	5:00 PM
77	zone.dbf	521,625	4/28/2021	3:41 PM
	Total	246,341,882		

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

		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	791,233	810,424	859,268	940,304	976,839
6	HH_Inc2	828,585	867,241	887,687	908,143	959,902	1,045,123	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	605,874	634,245	679,239	698,825
9	HH_All_Incs	2,674,060	2,796,716	2,861,257	2,925,830	3,087,349	3,351,029	3,469,475
10	HH_Siz1	670,992	710,169	730,756	752,613	809,114	896,349	934,433
11	HH_Siz2	808,111	845,822	866,400	887,005	936,724	1,018,494	1,053,944
12	HH_Siz3	469,403	488,691	498,904	508,808	532,756	572,903	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	2,796,716	2,861,257	2,925,830	3,087,349	3,351,029	3,469,475
15	HH_VA1	240,620	266,478	274,040	293,386	325,659	387,354	409,323
16	HH_VA2	809,160	853,867	877,613	902,846	963,621	1,063,911	1,106,921
17	HH_VA3	1,021,890	1,058,816	1,081,976	1,097,590	1,145,258	1,218,857	1,256,435
18	HH_VA4	602,390	617,556	627,628	632,009	652,811	680,907	696,797
19	HH_All_VAs	2,674,060	2,796,716	2,861,257	2,925,830	3,087,349	3,351,029	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	162,704	180,126	189,372	199,142	222,584	266,451	285,630
33	NonMotr_HBS Trips	349,461	391,846	412,964	433,857	490,120	597,217	645,072
34	NonMotr_HBO Trips	970,525	1,055,100	1,097,551	1,136,377	1,242,704	1,442,008	1,541,416
35	NonMotr_NHW Trips	494,489	517,642	529,778	541,046	571,433	621,893	644,153
36	NonMotr_NHO Trips	385,522	402,910	412,120	420,364	443,070	481,004	497,957
37	NonMotr_ALL Trips	2,362,701	2,547,624	2,641,785	2,730,786	2,969,910	3,408,573	3,614,228

Table 2: Continued

		2017	2021	2023	2025	2030	2040	2045
38	Ext_HBWAdr	465,907	470,911	484,167	497,876	521,198	567,675	590,340
39	Ext_HBSAdr	87,923	91,054	93,675	96,373	101,030	110,294	114,803
40	Ext_HBOAdr	371,505	377,643	389,364	401,513	423,337	466,693	487,671
41	Ext_NHWAdr	53,275	53,067	54,397	55,769	57,928	62,279	64,447
42	Ext_NHOAdr	103,756	103,351	105,938	108,609	112,795	121,268	125,484
43	Ext_ALLAdr	1,082,366	1,096,026	1,127,541	1,160,140	1,216,288	1,328,208	1,382,746
44	Ext_ComVeh	84,763	86,374	89,095	91,917	97,014	107,147	112,038
45	Ext_Medium_Trk	25,652	25,671	26,333	26,994	28,058	30,112	31,110
46	Ext_Heavy_Trk	30,911	31,104	31,976	32,878	34,401	37,339	38,728
47	MC_HBW_Psn	4,046,007	4,223,758	4,312,977	4,397,067	4,620,219	4,977,239	5,139,037
48	MC_HBS_Psn	3,198,909	3,295,582	3,348,348	3,398,969	3,522,524	3,700,397	3,791,860
49	MC_HBO_Psn	7,436,532	7,703,890	7,837,528	7,960,851	8,284,171	8,791,275	9,020,341
50	MC_NHW_Psn	1,675,775	1,734,729	1,765,860	1,792,851	1,865,214	1,974,827	2,026,877
51	MC_NHO_Psn	3,387,979	3,505,338	3,568,000	3,622,323	3,765,504	3,986,871	4,096,070
52	MC_ALL_Psn	19,745,202	20,463,296	20,832,714	21,172,060	22,057,633	23,430,609	24,074,184
53	MC_HBW_Trn	794,167	856,721	890,826	926,420	994,002	1,114,023	1,155,184
54	MC_HBS_Trn	25,915	26,777	27,558	28,369	29,902	30,562	30,859
55	MC_HBO_Trn	208,092	225,530	236,755	246,740	267,627	291,235	298,908
56	MC_NHW_Trn	86,125	98,487	105,544	108,927	118,419	131,061	129,535
57	MC_NHO_Trn	30,961	36,743	38,145	39,069	42,553	45,504	45,529
58	MC_All_Trn	1,145,261	1,244,258	1,298,828	1,349,526	1,452,504	1,612,385	1,660,014
59	HBW_TransitPct	19.63	20.28	20.65	21.07	21.51	22.38	22.48
60	HBS_TransitPct	0.81	0.81	0.82	0.83	0.85	0.83	0.81
61	HBO_TransitPct	2.80	2.93	3.02	3.10	3.23	3.31	3.31
62	NHW_TransitPct	5.14	5.68	5.98	6.08	6.35	6.64	6.39
63	NHO_TransitPct	0.91	1.05	1.07	1.08	1.13	1.14	1.11
64	ALL_TransitPct	5.80	6.08	6.23	6.37	6.59	6.88	6.90
65	MC_HBW_AutoPsn	3,251,840	3,367,037	3,422,151	3,470,647	3,626,217	3,863,215	3,983,853
66	MC_HBS_AutoPsn	3,172,994	3,268,805	3,320,790	3,370,600	3,492,621	3,669,835	3,761,001
67	MC_HBO_AutoPsn	7,228,440	7,478,360	7,600,773	7,714,111	8,016,544	8,500,040	8,721,433
68	MC_NHW_AutoPsn	1,589,650	1,636,242	1,660,316	1,683,924	1,746,795	1,843,766	1,897,342
69	MC_NHO_AutoPsn	3,357,018	3,468,594	3,529,855	3,583,254	3,722,951	3,941,367	4,050,541
70	MC_ALL_AutoPsn	18,599,942	19,219,037	19,533,886	19,822,535	20,605,129	21,818,224	22,414,170
71	Int_HBWAUTODrv	2,963,055	3,066,621	3,106,587	3,149,113	3,266,827	3,463,144	3,564,680
72	Int_HBSAUTODrv	2,088,927	2,150,601	2,183,580	2,215,195	2,293,458	2,406,593	2,465,230
73	Int_HBOAUTODrv	4,599,904	4,755,214	4,829,185	4,898,573	5,083,665	5,380,478	5,518,536
74	Int_NHWAUTODrv	1,323,222	1,356,709	1,366,176	1,378,775	1,418,532	1,472,276	1,511,740
75	Int_NHOAUTODrv	2,244,020	2,305,517	2,337,408	2,365,875	2,436,830	2,541,022	2,599,080
76	Int_ALLAUTODrv	13,219,128	13,634,661	13,822,936	14,007,531	14,499,311	15,263,512	15,659,267

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	1,114,430	1,168,153	1,196,605	1,224,887	1,291,435	1,406,150	1,456,745
84	Int_Med_Truck	457,062	477,279	487,260	496,805	521,378	561,491	583,006
85	Int_Hvy_Truck	106,604	111,833	114,145	116,353	121,865	131,177	136,509
86	ALL_HBWAdr	3,428,962	3,537,532	3,590,754	3,646,990	3,788,025	4,030,819	4,155,020
87	ALL_HBSAdr	2,176,850	2,241,655	2,277,255	2,311,568	2,394,488	2,516,887	2,580,033
88	ALL_HBOAdr	4,971,408	5,132,857	5,218,549	5,300,086	5,507,001	5,847,170	6,006,208
89	ALL_NHWAdr	1,376,497	1,409,776	1,420,573	1,434,544	1,476,459	1,534,554	1,576,187
90	ALL_NHOAdr	2,347,777	2,408,868	2,443,346	2,474,484	2,549,625	2,662,289	2,724,565
91	ALL_ALLAdr_MC	14,301,494	14,730,687	14,950,476	15,167,671	15,715,599	16,591,720	17,042,012
92	ALL_CV	1,199,192	1,254,527	1,285,700	1,316,804	1,388,449	1,513,297	1,568,783
93	ALL_Mtk	482,714	502,950	513,593	523,799	549,436	591,603	614,115
94	ALL_Htk	137,515	142,938	146,122	149,230	156,266	168,515	175,237
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	533,951	552,819	562,393	571,931	595,797	634,838	655,824
101	Final_Heavy_Truck	146,642	151,034	153,310	155,641	161,061	170,529	175,963
102	AirPax_AutoDrv	70,843	76,421	79,390	82,343	90,612	109,653	120,889
103	Final_Comm_Veh	1,387,148	1,440,556	1,469,531	1,498,769	1,567,173	1,684,210	1,735,310
104	All_Veh_Trips_MC	17,239,783	17,786,101	18,069,726	18,351,436	19,053,282	20,196,772	20,772,861
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	166,609,419	171,503,889	174,746,805	178,337,271	185,328,855	197,947,144	204,514,463
108	VMTperCapita	23.05	22.76	22.74	22.76	22.58	22.41	22.40
109	VMTperHH	62.31	61.32	61.07	60.95	60.03	59.07	58.95
110	VMTperTrip	9.66	9.64	9.67	9.72	9.73	9.80	9.85
111	MC_All_Trn_Walk	810,668	878,238	924,534	960,281	1,034,904	1,139,566	1,174,081
112	MC_All_CR_Walk	4,944	4,714	4,931	4,896	5,532	5,970	6,078
113	MC_All_AB_Walk	332,864	331,402	336,331	349,871	380,058	414,537	427,491
114	MC_All_BM_Walk	162,548	206,855	193,119	200,488	214,964	242,789	250,954
115	MC_All_MR_Walk	310,311	335,267	390,152	405,025	434,351	476,270	489,558

Table 2: Continued

		2017	2021	2023	2025	2030	2040	2045
116	MC_All_Trn_PNR	251,152	273,560	276,968	287,810	304,723	337,581	346,501
117	MC_All_CR_PNR_KNR	24,522	26,593	27,385	28,153	29,732	34,338	35,409
118	MC_All_AB_PNR	22,999	26,386	27,364	28,529	33,996	38,085	39,571
119	MC_All_BM_PNR	31,911	46,129	40,485	42,920	49,284	58,920	62,502
120	MC_All_MR_PNR	171,720	174,452	181,735	188,208	191,710	206,239	209,019
121	MC_All_Trn_KNR	83,440	92,460	97,326	101,434	112,876	135,239	139,432
122	MC_All_AB_KNR	11,783	13,362	13,709	14,438	20,527	28,785	29,982
123	MC_All_BM_KNR	10,868	16,214	15,478	16,307	19,289	26,060	26,921
124	MC_All_MR_KNR	60,789	62,884	68,139	70,689	73,061	80,394	82,528