

Appendix 9

Travel Forecasting Model Control Files

Cube (Licensed to Alabama Department of Transportation) - [NET07.app, NET07 (Scenario 'MOBILE' Catalog MOBILE.cat)]

File Scenario Edit View Data Program Control Functions Application Group Settings Run Utilities Other Apps Window Help

MOBILE.cat

Scenarios

- MOBILE

Applications

- NET07
- NETEC
- NET35

Data

- Inputs
- Outputs
- Reports

Keys

Key	Value
Scen. Name	MOBILE

BUILD BASE YEAR NETWORK

- Control Data
- Network Data
- BUILD HIGHWAY NETWORK
- Print File
- Network File

INTERZONAL SKIMS

- Control Data
- Network File
- Data File 1
- HIGHWAY SELECTED SUMMATION
- Print File
- Skim Data

ADDING INTRAZONALS AND TERMINAL TIMES

- Control Data
- Merged Table
- Data File 1
- MATRIX UPDATE
- Print File
- Merged Table

2007 GRAVITY MODEL

- Control Data
- Matrix:Skim
- GM Data
- Data File 1
- Data File 2
- GRAVITY MODEL
- Print File
- Matrix:TotPurp

TRANSPOSING MATRIX

- Control Data
- Merged Table
- MATRIX TRANSPOSE
- Print File
- O-D Format

MATRIX MANIPULATE

- Control Data
- Merged Table1
- Merged Table2
- Merged Table3
- Data File 1
- MATRIX MANIPULATE
- Print File
- OD2007.MAT

CAPACITY RESTRAINED EQUILIBRIUM ASSIGNMENT

MODE 1 = ONE TRIP END WITHIN STUDY AREA
 MODE 2 = TRUCKS; MODE 3 = THROUGH TRIPS (PRE-LOADED)

- Control Data
- Network File
- Trip Data
- Data File 1
- EQUILIBRIUM HIGHWAY LOAD
- Print File
- Network File

```
$BUILD HIGHWAY NETWORK
$FILES
    INPUT FILE = NETDATA, USER ID = $MB07.dat$
    OUTPUT FILE = HWYNET, USER ID = $MB07.NET$
$HEADERS
BUILD BASE YEAR NETWORK
$OPTIONS
    NETDATA
    LARGE COORDINATES
$PARAMETERS
    ERROR LIMIT = 1
    MAXIMUM NODE = 1699
    NUMBER OF ZONES = 343
$END TP FUNCTION
```

```
$HIGHWAY SELECTED SUMMATION
$FILES
INPUT FILE = HWYNET, USER ID = $MB07.NET$
OUTPUT FILE = HWYSKIM, USER ID = $SKM1MB07.DAT$
$HEADERS
    INTERZONAL SKIMS
$OPTIONS
$PARAMETERS
    IMPEDANCE = TIME 1
$DATA
$INCLUDE C:\MOBILE\MOB2007\DATATIME1.DAT
$END TP FUNCTION
```

```
$MATRIX UPDATE
$FILES
INPUT FILE = UPDIN, USER ID = $SKM1MB07.DAT$
OUTPUT FILE = UPDOUT, USER ID = $SKM2MB07.MAT$
$HEADERS
ADDING INTRAZONALS AND TERMINAL TIMES
$OPTIONS
  MUPDATA
$PARAMETERS
$DATA
$INCLUDE C:\MOBILE\MOB2007\TERM_INTRA_MB07.DAT
$END TP FUNCTION
```

```
$GRAVITY MODEL
$FILES
    INPUT FILE = GMSKIM, USER ID = $SKM2MB07.MAT$
    INPUT FILE = GRVDATA, USER ID = $PA1MB07.DAT$
    OUTPUT FILE = GMTVOL, USER ID = $PA2MB07.MAT$
$HEADERS
2007 GRAVITY MODEL
$OPTIONS
    GRVDATA
    SUPPRESS DATA
    PRINT TRIP LENGTH STATISTICS
    PRINT TRIP ENDS
    PRINT ATTRACTIONS
    PRINT ALL ITERATIONS
    TOTAL PURPOSE FILE
$PARAMETERS
    ATTRACTION CLOSURE = .0001
    ITERATIONS ON ATTRACTIONS = 25
    MAXIMUM TIME = 80
    MAXIMUM PURPOSE = 4
    KFACTOR DISTRICTS = 33
DATA
$INCLUDE C:\MOBILE\MOB2007\FFMB07.DAT
$INCLUDE C:\MOBILE\MOB2007\KFMB07.DAT
$END TP FUNCTION
```

```
$MATRIX TRANSPOSE
$FILES
INPUT FILE = TRNSPIN, USER ID = $..\MOB2007\PA2MB07.MAT$
OUTPUT FILE = ODVOL, USER ID = $..\MOB2007\OD1MB07.MAT$
$HEADERS
TRANSPOSING MATRIX
$OPTIONS
  NO TRANSPOSED FILE
$PARAMETERS
  AP FACTORS = 0.5
  PA FACTORS = 0.5
$END TP FUNCTION
```

```
$MATRIX MANIPULATE
$FILES
INPUT FILE = TMAN1, USER ID = $OD1MB07.MAT$
INPUT FILE = TMAN2, USER ID = $TRCKMB07.MAT$
INPUT FILE = TMAN3, USER ID = $ODEE07.mat$
OUTPUT FILE = TMAN4, USER ID = $OD2MB07.MAT$
$PARAMETERS
$DATA
$INCLUDE C:\MOBILE\MOB2007\EEMANIP.DAT
$END TP FUNCTION
```

\$EQUILIBRIUM HIGHWAY LOAD

\$FILES

INPUT FILE = HWYNET, USER ID = \$MB07.NET\$
INPUT FILE = HWYTRIP, USER ID = \$OD2MB07.MAT\$
OUTPUT FILE = LODHIST, USER ID = \$LODMB07.NET\$
OUTPUT FILE = PREDATA, USER ID = \$PRELOAD.ASC\$

\$HEADERS

CAPACITY RESTRAINED EQUILIBRIUM ASSIGNMENT
MODE 1 = ONE TRIP END WITHIN STUDY AREA
MODE 2 = TRUCKS; MODE 3 = THROUGH TRIPS (PRE-LOADED)

\$OPTIONS

SAVE PRELOADS ~ SAVES PRELOADS AS MODE 3
NEW PRELOAD FILE ~ WRITES LINK PRELOADS TO "PREDATA" FILE

\$PARAMETERS

PRELOAD PURPOSE = 3 ~ EE TRIPS
EQUILIBRIUM ITERATIONS = 25
EPS = .01
LOAD CLASS = 1, EXCLUDE, ASSIGNMENT GROUP = 3
LOAD CLASS = 2, EXCLUDE, ASSIGNMENT GROUP = 4
LOAD CLASS = 3, EXCLUDE, ASSIGNMENT GROUP = 1,4

\$DATA

\$INCLUDE C:\MOBILE\MOB2007\RESTRAINT_CURVES.DAT
\$END TP FUNCTION