Travel Demand Model Fact Sheet

Identification

Model Name: **Model Area:** Daviess County

Owensboro/Daviess County Urban Planning Traffic Simulation Model

Purpose of Model: MPO model for transportation project planning and air quality

Model Developer: The Corradino Group   **Mod. Software Used:** MinuTP &Maptitude

Date Model Work Began: 1999   **Date Finished:** May 2000

Model Years:	Base Yr:	Fut. Yr:		Interim Years:	
	1999	2025		2010	2020

Technical Specifications

 # TAZs / # links:

1999 = 234 TAZs; 2025 = 235 TAZs

links varies by alternate year

Trip Rates:

NCHRP Report 365

Trip Generation Equations:

NCHRP Report 365

EE Methodology:

NCHRP Report 365.

BPR Equations Used:

$F(I)p = ap * (I^{**}bp) * EXP (cp *I)$

Assignment Methodology:

$Tc=Tf * \{ 1+ a(v/c) B\}$

Truck Model:	**Mode Choice:**
NA	NA

Time of Day Modeling:	**Model Running Time:**	**Air Quality Component:**
NA	<1 minute	Not used: determines VMT

Script / Batch File Description (How Developed?)

Fortran program

Calibration/Validation

RMSE:	**Screenline Summary - Y/N:**	**How Many:**
@38%	Y	10

Methods Used for Calibration:

VMT, VHT, traffic volumes, v/c comparisons.

Urban / Rural Comparison:

All facilities within 0.2 percent of each other.

Unusual Calibration Measures Taken (K-Factors; Matrix Estimation):

NA

VMT Model / (HPMS) VMT KYTC Comparison:

2,181,627 vs. 2,185,000

VMT Increase In Future Year:

Yes

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Data Collection/Network Development

Special Counts - Y/N: N   How Many?   Where?

SE Data: Base Data Source: Census/ ES-202   Population/Employment Ratio:
          Future Estimate Source: KY State Data Center

Base Network Developed From?: Tiger files

Other Data (e.g. Origin-Destination):

Other Networks: Scenarios / Alternative Networks:
                        None
                        E + C: None