Travel Demand Model Fact Sheet

1.1							
<u>Identification</u>							
Model Name: Ashland	l Travel Model	Model Area: Ashland, Boyd County & Greenup County					
Purpose of Model: MPO model for transportation project planning and air quality							
Model Developer: The	Corradino Group	Mod. Software Used: TransCAD					
Date Model Work Bega	an: 2001	Date Finished: December 2002					
Model Years:	Base Yr: Fut. Y	r: Interim Years:					
	2000 20	025 2010 2020					

Technical Specifications							
# TAZs / # links:							
120 TAZs in Boyd Co, 60 TAZs in Greenup Co, 18 external zones; Total 198 TAZs							
# links varies by alternate year							
Trip Rates:							
1.33987 for Boyd; 0.86577 for	Greenup						
Trip Generation Equations:							
NCHRP Report 365							
EE Methodology:							
Original NCHRP Report 365.	Then adjusted using TransCAD's	s O-D matrix estimation routine.					
BPR Equations Used:							
F(I)p = ap * (I**bp) * EXP (cp *	l)						
Assignment Methodology:							
TransCAD's gravity model/ O-I	D Matrix Estimator						
Truck Model:	Mode Choice:						
NA	NA						
Time of Day Modeling:	Model Running Time:	Air Quality Component:					
NA	<1 minute	NA					
Script / Batch File Descriptio	n (How Developed?)						
TransCAD GISDK							

Calibration/Validation		
RMSE:	Screenline Summary - Y/N:	How Many:
@ 36%	Υ	5
Methods Used for Calibration:		
Urban / Rural Comparison:		
Urban better than rural.		
Unusual Calibration Measures	Taken (K-Factors; Matrix Estim	nation):
Added trip generation factors to	counter overestimation in Greenup	p County and underestimation
in Boyd County.		
VMT Model / (HPMS) VMT KYT	C Comparison:	
Boyd: 1,354,814 vs. 1,349,000	Greenup: 904,072 vs. 908,000	
VMT Increase In Future Year:		
Yes		

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Data Colle	ction/Netw	ork Develo	pment			
Special Co	unts - Y/N:	N	How Many?	Where?		
SE Data:	Base Data	Source: Ce	nsus/ ES-202	Population/Em	ployment Ratio:	
	Future Esti	mate Source	e: KY State Data	Center + prudently i	minor growth estimate	
Base Netw	ork Develor	ped From?:	Tiger files			
Other Data (e.g. Origin-Destination): Used Owensboro as example of adjustments in TransCAD						
Other Networks: Scenarios / Alternative Networks:						
	None					
	E + C:	None				