

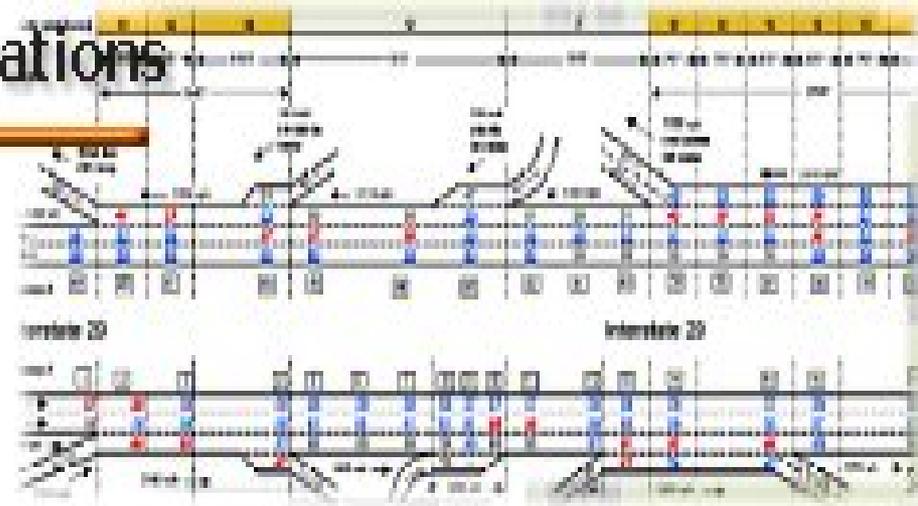
Chapter 13

Mn/DOT's Modeling Website

Office of Traffic, Security and Operations

TRAFFIC ENGINEERING

**CORRIDOR
SIMULATION**



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Introduction

Why Was the Modeling Website Created?

- To Educate Traffic Professionals
- To Clarify Modeling Requirement
- To Provide Resource Materials
- To Establish a System Modeling Process
- To Provide Real World Example
- To Facilitate Data Extraction Process

Modeling Website

What is Available?

- Federal & Mn/DOT Modeling Requirements
- Advanced CORSIM Manual
- Sample Modeling Project
- Data Extraction Cookbook
- Modeling Resource Materials
- Hotlinks to Other Modeling Websites

Glossary of Terms

- IJR – Interstate Justification Request
- IAR – Interstate Access Request
- TSIS – Traffic Software Integrated System
- CORSIM – CORridor SIMulation
- IRIS – Intelligent Roadway Information System
- MIST – Metro Incident Selection Tool
- MOE – Measures of Effectiveness

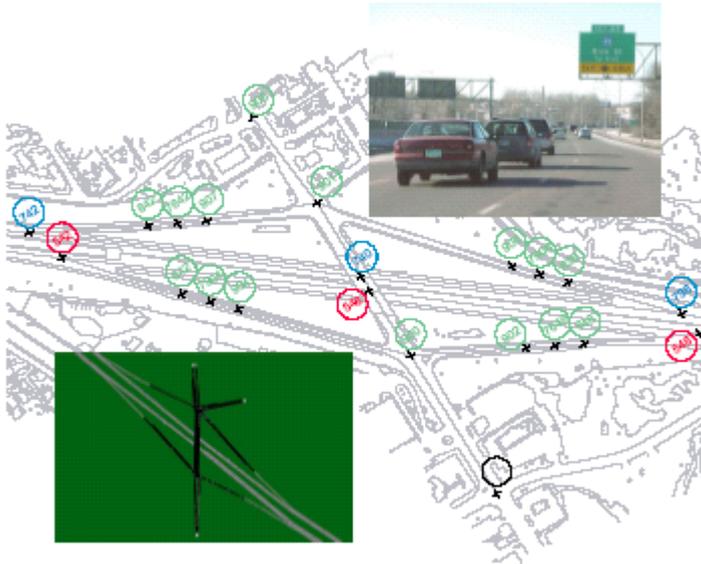
Federal & State Modeling Requirements

- Federal IAR Requirements
 - HPDP Handbook 8 Requirements
- FHWA/MN Division IJR Guide
- Mn/DOT Modeling Guidelines
- CORSIM Calibration Parameters

Advanced CORSIM Manual

Advanced **CORSIM** Training Manual

Prepared by:

- Manual Was Jointly Funded by FHWA, Mn/DOT & Hennepin County
- Developed by SEH
- Operational Analysis Requiring Mn/DOT & Federal Approval
- Lays Out the Modeling Development Process

Prepared for:



Hennepin County

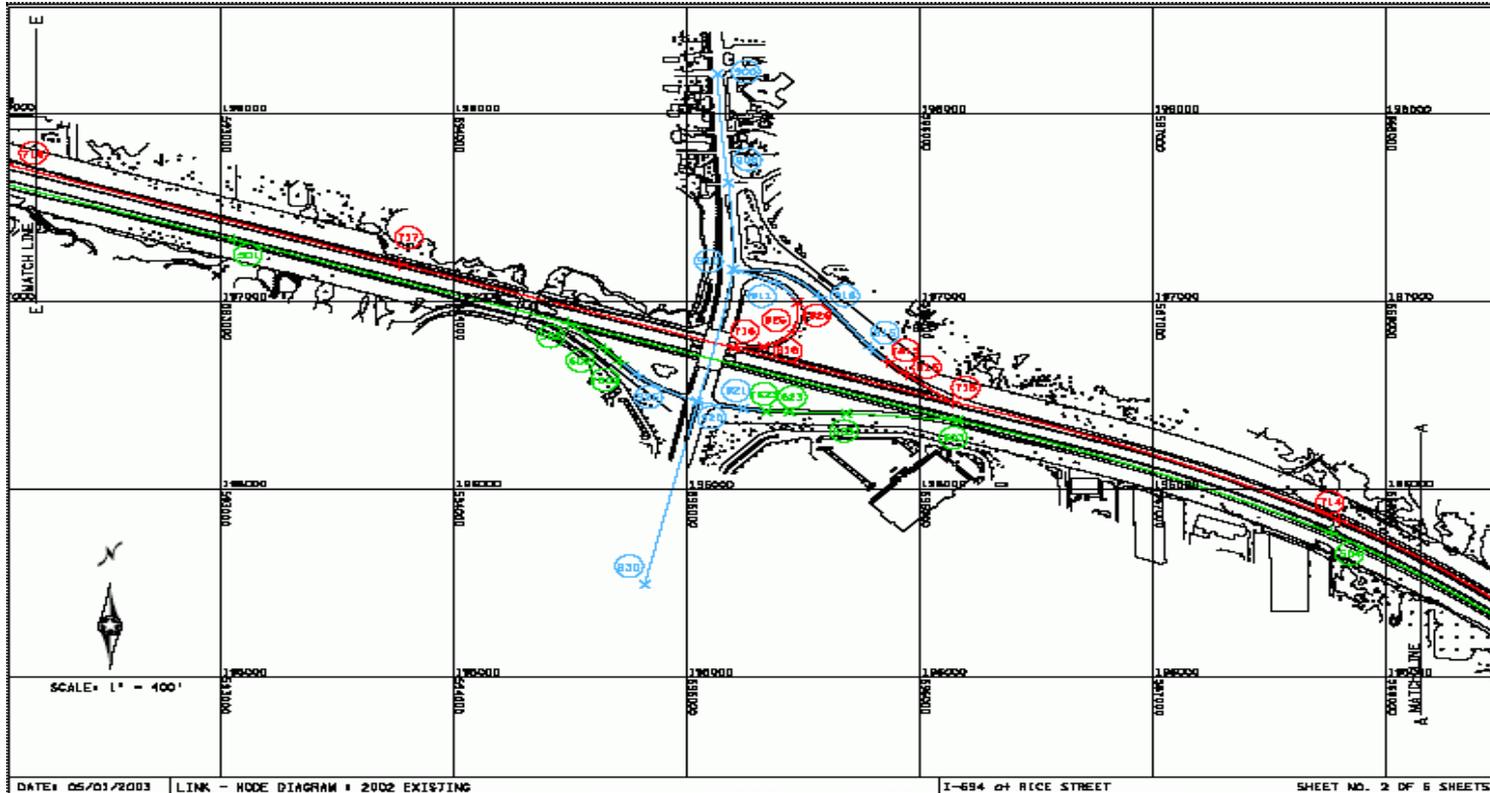


Advanced CORSIM Manual

CORSIM Manual V.11 (Complete 4 Mb pdf)	pdf
Cover	pdf
Table of Contents Pages	pdf
Chapter 1 - Modeling Process	pdf
Chapter 2 - Project Scoping	pdf
Chapter 3 - Data Collection	pdf
Chapter 4 - Base Model Process	pdf
Chapter 5 - Organization & Review	pdf
Chapter 6 - Calibration	pdf
Chapter 7 - MOE's & Reports	pdf
Chapter 8 - Alternatives	pdf
Appendix	pdf

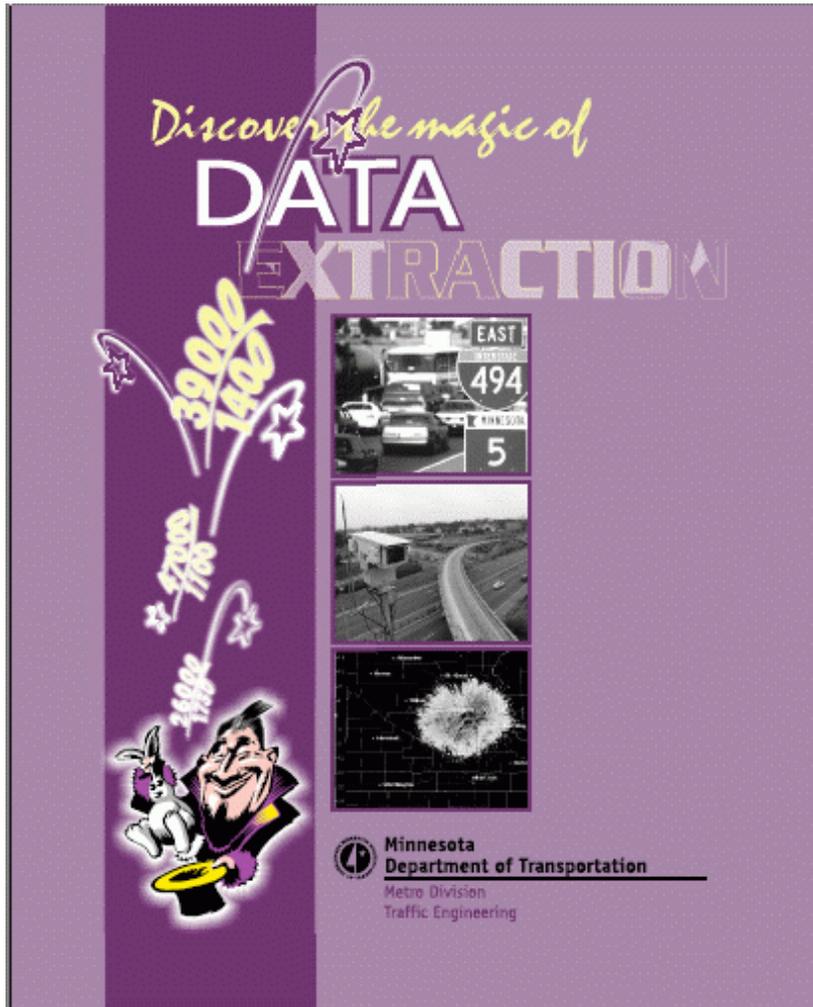
- View Manual On-line by Entire Document or Chapter
- Ability to Download the Entire Manual

Sample Modeling Project



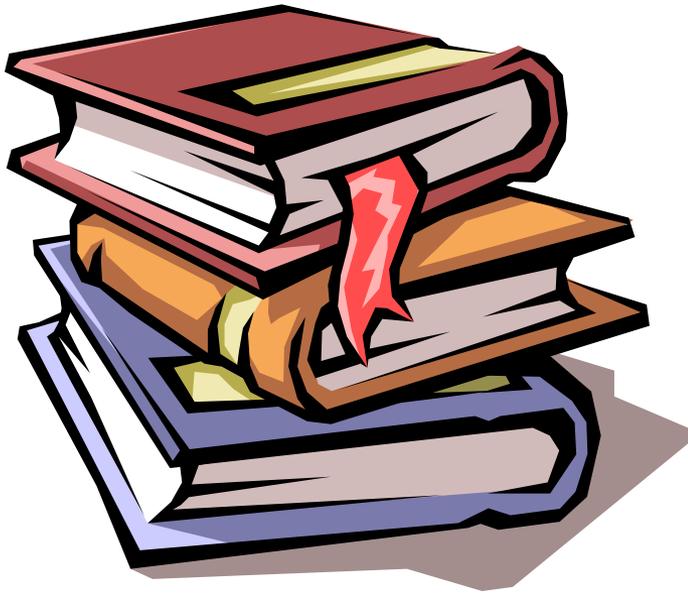
- Physical Input
- Traffic Demand Data
- Synchro & TSIS Files
- MOE Results

Data Extraction Cookbook



- Developed For External Customers
- Facilitate the Extraction of System Data & Information
- Access to In-house Programs & Database
- View On-line or Download Document

Modeling Resource Materials



- FHWA Materials
 - Traffic Analysis Tools Primer
 - Decision Support Methodology For Selecting Traffic Analysis Tools
 - Guidelines for Applying Microsimulation Modeling Software
- Research Papers

Modeling Website Hotlinks



- FHWA
Traffic Analysis Tools
- TSIS
User Support Website
- Purchasing Information
McTrans Center
PC TRANS