

SUMMARY OF DOCUMENT INCORPORATED BY REFERENCE

Trip Generation Handbook, Second Edition – an ITE Recommended Practice, 2004

The Institute of Transportation Engineers (ITE), the group that publishes *Trip Generation, 2008*, is an international educational and scientific association of transportation professionals who are responsible for meeting mobility and safety needs. ITE facilitates the application of technology and scientific principles to research, planning, functional design, implementation, operation, policy development and management for any mode of ground transportation. Through its products and services, ITE promotes professional development of its members, supports and encourages education, stimulates research, develops public awareness programs and serves as a conduit for the exchange of professional information.

The *Trip Generation Handbook, Second Edition – an ITE Recommended Practice, 2004* is related to *Trip Generation, 2008*, a three-volume document. The *Trip Generation Handbook* was created due to a decision by ITE to separate the processing and dissemination of the informational trip generation data from the development of recommendations on how to use and apply the data. It is a recommended practice of ITE.

Trip Generation Handbook

Second Edition

An ITE Recommended Practice



June 2004

Institute of Transportation Engineers

Preface

The Institute of Transportation Engineers (ITE) published the Seventh Edition of *Trip Generation* in three volumes in 2003. The first volume, the *User's Guide*, describes the database used in the next two volumes, as well as the data plots and their reported statistics. The second and third volumes contain land use descriptions and data plots. *Trip Generation* is an ITE informational report.

During the development of *Trip Generation*, ITE decided to separate the processing and dissemination of the informational trip generation data from the development of recommendations on how to use and apply the data. This separate document, the *Trip Generation Handbook*, 2nd Edition, is a recommended practice of ITE.

The *Trip Generation Handbook* has two primary purposes: to provide instruction and guidance in the proper use of data presented in *Trip Generation*, and to provide information on supplemental issues of importance in estimating trip generation for development sites.

Because the instruction and guidance in the main body of this handbook represents a recommended practice for estimating trip generation, its function is distinct from that of *Trip Generation*. Note, however, the data contained in the appendices of this handbook are for informational purposes only.

The analysis methods presented in the handbook have been developed to be simple and understood by the novice transportation planner/engineer, yet sufficiently accurate for the experienced transportation professional.

Table of Contents

Preface	v
Acknowledgments	vii
Chapter 1. Introduction	
1.1 Use of <i>Trip Generation Data</i>	1
1.2 Purpose of the <i>Trip Generation Handbook</i>	1
1.3 Contents of the <i>Trip Generation Handbook</i>	2
Chapter 2. Selection of Independent Variable and Time Period for Analysis	
2.1 Definitions of Independent Variables	3
2.2 Selection of Independent Variable, If a Choice Is Available	3
2.3 Selection of Independent Variable, If the Measure Must Be Derived	4
2.4 Time Period for Analysis	4
2.5 Time of Day, Day of Week and Seasonal Variations	4
Chapter 3. Guidelines for Estimating Trip Generation	
3.1 Background	7
3.2 Available Information on Trip Generation	7
3.3 Guiding Principles	9
3.4 Recommended Procedure for Estimating Trip Generation	9
3.5 Sample Problems	12
Chapter 4. Conducting a Trip Generation Study	
4.1 Background	15
4.2 Reasons to Conduct a Trip Generation Study	15
4.3 Trip Generation Study Design	16
4.4 Conducting the Study	19
4.5 Establishment of a Local Trip Generation Rate or Equation	20
4.6 Validation of <i>Trip Generation Rates/Equations</i> for Local Use	21
4.7 Combining <i>Trip Generation</i> and Local Data	22
Chapter 5. Pass-By, Primary and Diverted Linked Trips	
5.1 Background	29
5.2 Sample Application of Pass-By Trip Assignment Process	31
5.3 Cautions	33
5.4 Data Base on Pass-By, Primary and Diverted Linked Trips	34
5.5 A Guide for Establishing Pass-By Trip-Making Estimates	78
5.6 Recommended Data Collection Procedures	78
Chapter 6. Estimating Trip Generation for Generalized Land Uses	
6.1 Background	83
6.2 Overview of Recommended Procedure	83
6.3 Determination of Potential Land Use Mix	83
6.4 Estimation of Development Quantity	83
6.5 Estimation of Trip Generation	84
Chapter 7. Multi-Use Development	
7.1 Background	85
7.2 What Is a Multi-Use Development?	85
7.3 What Is <i>Not</i> a Multi-Use Development?	86
7.4 Methodology for Estimating Trip Generation at Multi-Use Sites	86
7.5 Procedure for Estimating Multi-Use Trip Generation	89
7.6 Cautions Regarding Recommended Procedure	98
7.7 Data Collection at Multi-Use Developments	101
Appendix A. Truck Trip Generation	111
Appendix B. Effects of Transportation Demand Management (TDM) and Transit on Trip Generation	121
Appendix C. Summary of Literature on Multi-Use Developments	129
Appendix D. Glossary	145
Index	149
Comments Form	153