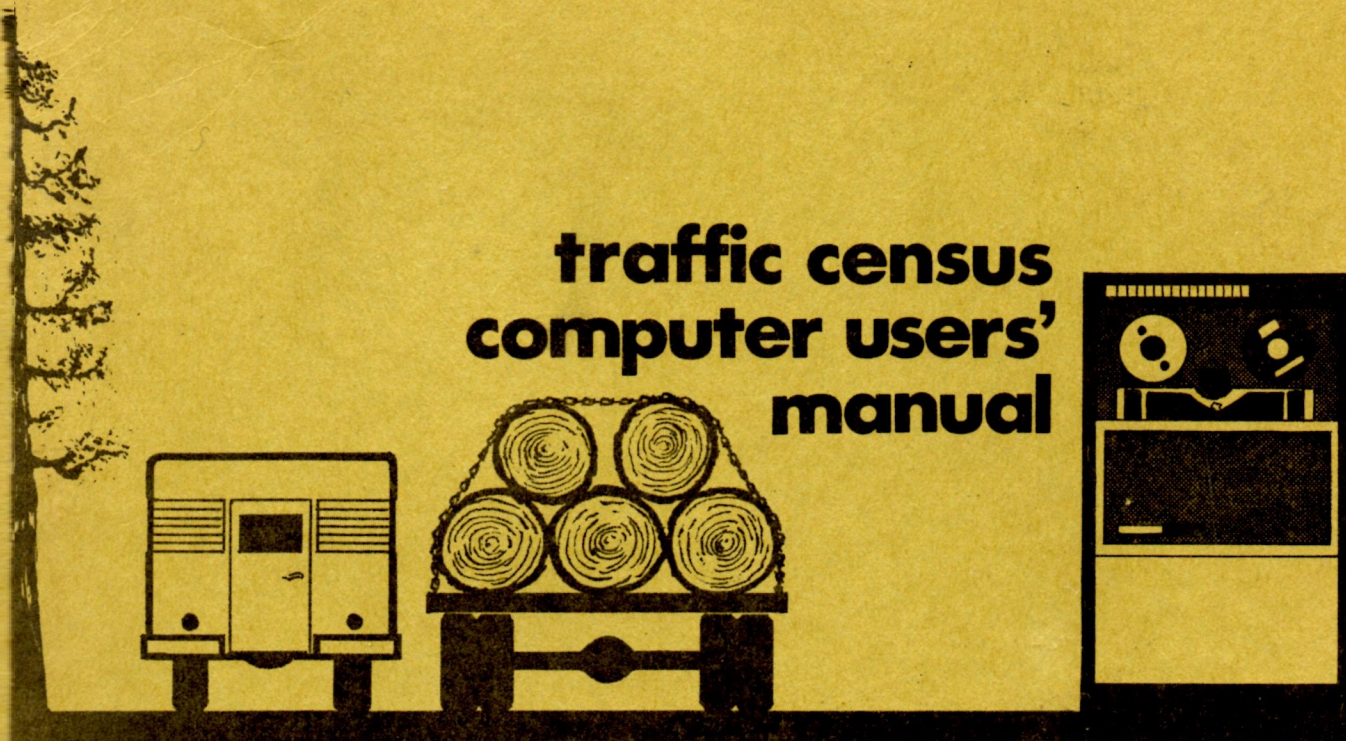


traffic census computer users' manual



TRANSPORTATION SYSTEM PLANNING
DEVELOPMENT PROJECT

In cooperation with U.S. Department
of Agriculture, Forest Service,
California Region, San Francisco

Report No. TE 0003-70
Foundation Account No. 6435.A2
June 1970

SAN JOSE STATE COLLEGE
SCHOOL OF ENGINEERING

TRAFFIC CENSUS
COMPUTER USER'S MANUAL
Transportation System Planning Project
U.S. Forest Service

by

Jorge Barriga, Project Director
Kenton H. Johnson, Graduate Research Associate

A Report Prepared on Work Performed Under
Supplemental Cooperative Agreement No. 1

between

San Jose State College Foundation and the

U. S. Department of Agriculture

Forest Service

California Region

Division of Engineering

Department of Civil Engineering and Applied Mechanics

San Jose State College

San Jose, California

June 1970

PREFACE

This manual describes a computer programming system developed for the processing and analysis of traffic volume data. This system was developed in conjunction with the Traffic Census Analysis Study, Report Number TE 0002-70, at San Jose State College in connection with the Transportation System Planning Project of the U. S. Forest Service.

This manual describes the various steps involved in computer processing and analysis of traffic volume data from recording and non-recording types of traffic counters.

In general, the system performs the functions of file generation and file manipulation, and has facilities for storing, merging, updating, deleting, and summarizing traffic volume data.

The system includes computer programs to implement the Traffic Census Analysis Study and to provide printed summary information in specially designed formats. It includes statistical analyses programs to obtain summary statistics either for an entire period of record, or for selected subsets of the total period such as a group of hours, days of the week, weeks, months, or seasons.

The manual contains documentation for all main programs, and for selected common subroutines; included are also macro program flow charts. Examples of the outputs produced with their interpretation are also given.

ACKNOWLEDGEMENTS

The cooperation, assistance, and valuable technical comments and critiques provided throughout the entire project by Mr. Conrad Mandt of the Division of Engineering, California Region of the Forest Service are gratefully acknowledged.

The programs in the system were mainly written, debugged, tested and documented by Mr. Kenton H. Johnson, Graduate Research Associate in the project.

Special thanks are due Miss Susan Redigan who typed the original drafts. Appreciation is also extended to Mrs. Jayne Koland who typed the final copy, and to Mr. Lawrence J. Daniello for the cover design.

TABLE OF CONTENTS

Section	Page
1. System Description	
1.1 System Outline	1
1.2 System Flow Chart	14
1.3 Sample Data Processing Forms	17
2. Program Descriptions	
2.1 Abstracts	32
2.2 Output Samples and Descriptions	68
2.3 Flow Charts	134
3. Selected Subroutine Descriptions	
3.1 Abstracts	145
3.2 Selected Flow Charts	172
4. Program Operations	
4.1 Hardward Specifications	178
4.2 Data Formats	180
4.3 Code Conventions	188
4.4 Software Specifications	189
4.5 General Program Instructions	191
4.6 General Deck Set-up	194
4.7 Sample Control Card Listings	195
5. Special Programs	
5.1 SPECTRUM	199
5.2 STATIS	205
5.3 STEREST	211
5.4 CCOL	218
Appendices	
Mainline Program Listings	A-1
Common Subroutine Listings	A-85
Blank Data Processing Forms	A-94
Blank Data Record Forms	A-112
Blank Data Correction Form	A-114