

**PACKAGE ID** - 000564AL00000 MITRAM

**KWIC TITLE** - Minority Transportation Expenditure Allocation  
Model

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**LIMITATION CODE** -UNL                   **AUDIENCE CODE** - UNL

**COMPLETION DATE** - 04/12/1993   **PUBLICATION DATE** - 02/01/1989

**DESCRIPTION** - MITRAM (Minority TRansportation expenditure Allocation Model) can project various transportation related attributes of minority (Black and Hispanic) and majority (white) populations. The model projects vehicle ownership, vehicle miles of travel, workers, new car and on-road fleet fuel economy, amount and share of household income spent on gasoline, and household expenditures on public transportation and taxis. MITRAM predicts reactions to sustained fuel price changes for up to 10 years after the change.

**PACKAGE CONTENTS** - Software Abstract; Media Directory; ANL/ES-159;

**SOURCE CODE INCLUDED?** - Yes

**MEDIA QUANTITY** - 1 3.5 Diskette

**METHOD OF SOLUTION** - The submodels within MITRAM are based on several data sources. These include the Nationwide Personal Transportation Studies (NPTSs) of 1977 and 1983 and the Residential Transportation Energy Consumption Surveys (RTECs) of 1983 and 1985, which were used for cross-sectional analyses. National time-series data were obtained from reports published by the Bureau of the Census and the Bureau of Labor Statistics (BLS).

**COMPUTER** - APPLE MACINTOSH

**OPERATING SYSTEMS** - Machine dependent

**PROGRAMMING LANGUAGES** - Microsoft Excel

**SOFTWARE LIMITATIONS** - The data compiled in MITRAM is appropriate only for the U.S. population.

**SOURCE CODE AVAILABLE (Y/N)** - Y

**OTHER PROG/OPER SYS INFO** - The Macintosh version produces a set of graphs showing historical and projected values of the transportation attributes. MITRAM requires the proprietary Microsoft Excel spreadsheet package which is not included.

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**OTHER PROG/OPER SYS INFO - (CONT)**

**HARDWARE REQS** - Requires an Apple Macintosh computer with a minimum of 512 Kbytes of memory and two disk drives. A printer with graphic capabilities is required to produce hard copies of the graphs produced by the model.

**REFERENCES** - A.D. Vyas, D.J. Santini, and S.K. Marik, Minority Transportation Expenditures Allocation Model (MITRAM) User Documentation for the Personal Computer Spreadsheet Version, ANL/EES-TM-368, February 1989; D.J. Santini and A.D. Vyas, Theoretical Basis and Parameter Estimates for the Minority Transportation Expenditure Allocation Model (MITRAM), ANL/ES-159, December 1988.

**ABSTRACT STATUS** - Submitted June 1989.

**SUBJECT CLASS CODE** - T

**KEYWORDS** -

COMPUTER PROGRAM DOCUMENTATION  
M CODES  
TRANSPORTATION SYSTEMS  
TIME-SERIES ANALYSIS  
MINORITY GROUPS

**EDB SUBJECT CATEGORIES** -

990200 320203

**SPONSOR** - DOE/MI

**PACKAGE TYPE** - AS - IS