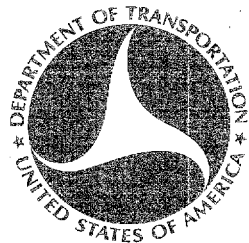
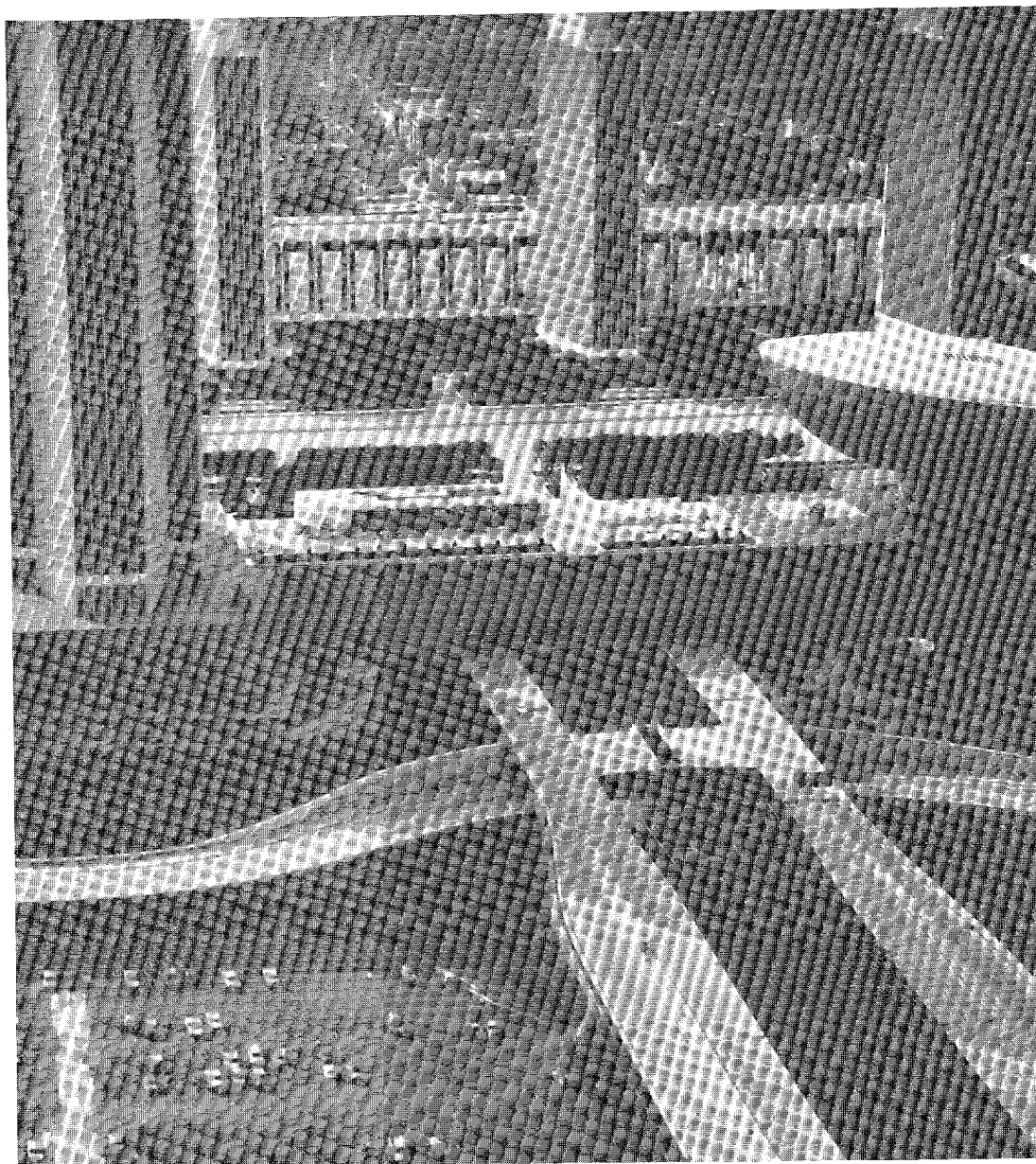


HIGHWAY STATISTICS CHARTS

1977



U.S. DEPARTMENT OF TRANSPORTATION
Federal Highway Administration

THE CHARTS CONTAINED WITHIN THIS PUBLICATION HAVE BEEN PREPARED AS A CONVENIENT VISUAL SUPPLEMENT TO VARIOUS TABLES PUBLISHED IN "HIGHWAY STATISTICS 1977" AND PRIOR YEARS, WHICH MAY BE OBTAINED FROM THE SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402, AND NATIONAL TECHNICAL INFORMATION SERVICE, SPRINGFIELD, VA. 22161

HIGHWAY STATISTICS CHARTS

Introduction

These graphical presentations of highway data are intended to help in the interpretation and understanding of the extensive detailed data compiled in the annual Highway Statistics.

Figures 1-5 show expenditures for capital outlay and maintenance for facilities under State jurisdiction. The amounts and proportions of mileage under State jurisdiction vary. The ranking of States aids comparisons, while the per vehicle mile and per registered vehicle comparisons relate the expenditures to indicators of usage and tends to reduce the range. Expenditures per mile average \$12,028 and \$3,815 per mile for capital outlay and maintenance respectively, compared to \$8.47 per 1,000-vehicle-miles of travel and \$87.05 per registered vehicle. Some of the variations among States may be easier to visualize by considering total road and street miles per 1,000 persons, with the most populous States having less than 20 miles per 1,000 and most of the less populous western States exceeding 60 miles per 1,000 persons. Differences in costs are also influenced by the share expended in the standard metropolitan statistical areas as shown in figures 7 and 8. Figures 9 and 10 show that road mileage has increased gradually from just under 3 million miles in the early 1920's to 3.9 million miles in 1977. Nearly half the total mileage is now hard surface while the great majority of the mileage is classed as local rural roads.

The trends in receipts and disbursements shown in figures 11-14 show that highway user imposts, mainly fuel and vehicle taxes, provide the bulk of the funds, while capital outlay accounts for about half the expenditures. While States and cities were the principle collecting agencies in the early years, Federal collections became important in the 1930's and since World War II. Details for 1977 are shown in figure 17. Since most Federal funds go to the States for aid to State programs, State and local expenditures are substantial compared to direct Federal expenditures. The outstanding obligations in figure 15 are very substantial for some of the large States with extensive toll facilities, but when shown as dollars per registered vehicle in figure 16 some rankings change significantly.

Relationships among mileage, population, vehicles, drivers, revenue and expenditures in both constant and current dollars by 5 years intervals in figures 18 and 20 show that population is increasing faster than mileage, but that drivers, vehicles, and fuel consumption are all outpacing population. User imposts and other revenues, for the nation and in most States, are not keeping pace with the increasing travel and the declining purchasing power of the highway dollar.

Data Sources

Except for the population statistics from the Bureau of the Census, all chart data have been derived from tables published by the Highway Statistics Division, Federal Highway Administration. These tables are as follows:

Fig.	TABLE	Fig.	TABLE
1	SF-4A SF-6; M-1	14	HF-12; HF-202
2	SF-4A SF-6; M-1	15	SB-2; UB-2; LB-2; UB-42; LB-42;
3	SF-4A; SF-6; VM-2	16	SB-2; UB-2; LB-2; UB-42; LB-42; MV-1
4	SF-4A; SF-6; VM-2	17	SF-21
5	SF-4A; SF-6; MV-1	18	M-1; MV-1; DL-1; MF-1; MF-21;
6	M-1; POPULATION FROM CENSUS		HF-10; POPULATION FROM CENSUS
7	SF-4A; SF-6; SF-15	19	MF-3; MV-3; DF
8	SF-4A; SF-6; SF-15	20	HF-11; HF-12; MV-1; MF-21; DL-1;
9	M-2; M-4; M-5; M-6; M-203		POPULATION FROM CENSUS,
10	M-2; M-200		SELECTED HIGHWAY STATISTICS
11	HF-11; HF-201	21	DL-1A
12	HF-12; HF-202	22	MV-1; MV-200
13	HF-11; HF-201	23	MF-24; MF-25; MF-26; MF-225; MF-226

EXPENDITURES PER MILE FOR MAINTENANCE ON ROADS AND STREETS UNDER STATE JURISDICTION - 1977 EXCLUDING TOLL FACILITIES
 IN THOUSANDS OF DOLLARS

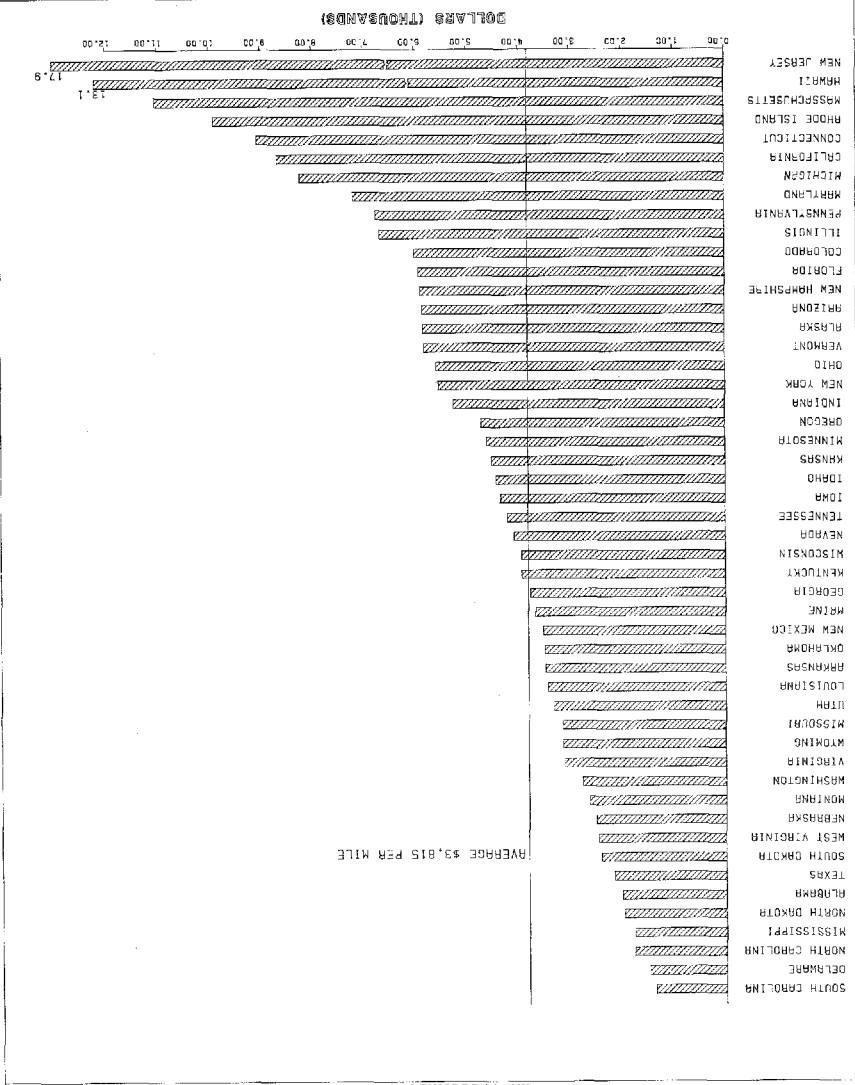


FIGURE 2

EXPENDITURES PER MILE FOR CAPITAL OUTLAY ON ROADS AND STREETS UNDER STATE JURISDICTION - 1977 EXCLUDING TOLL FACILITIES
 IN THOUSANDS OF DOLLARS

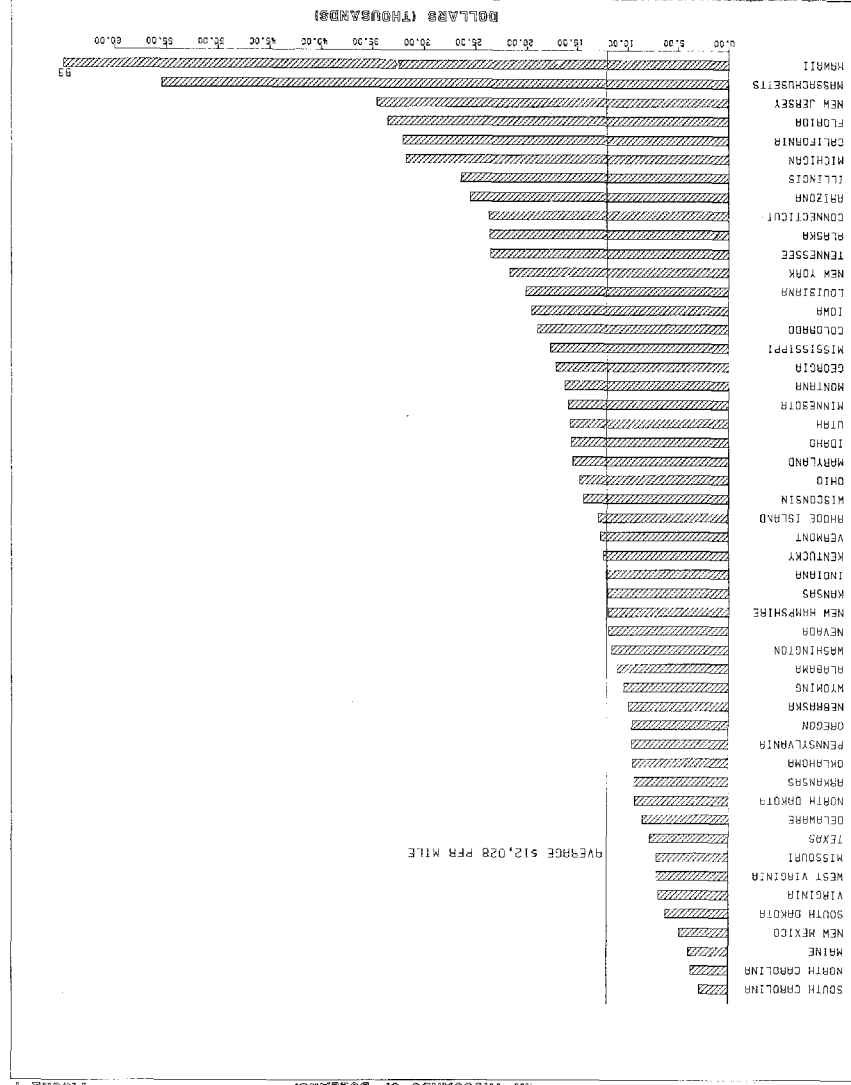
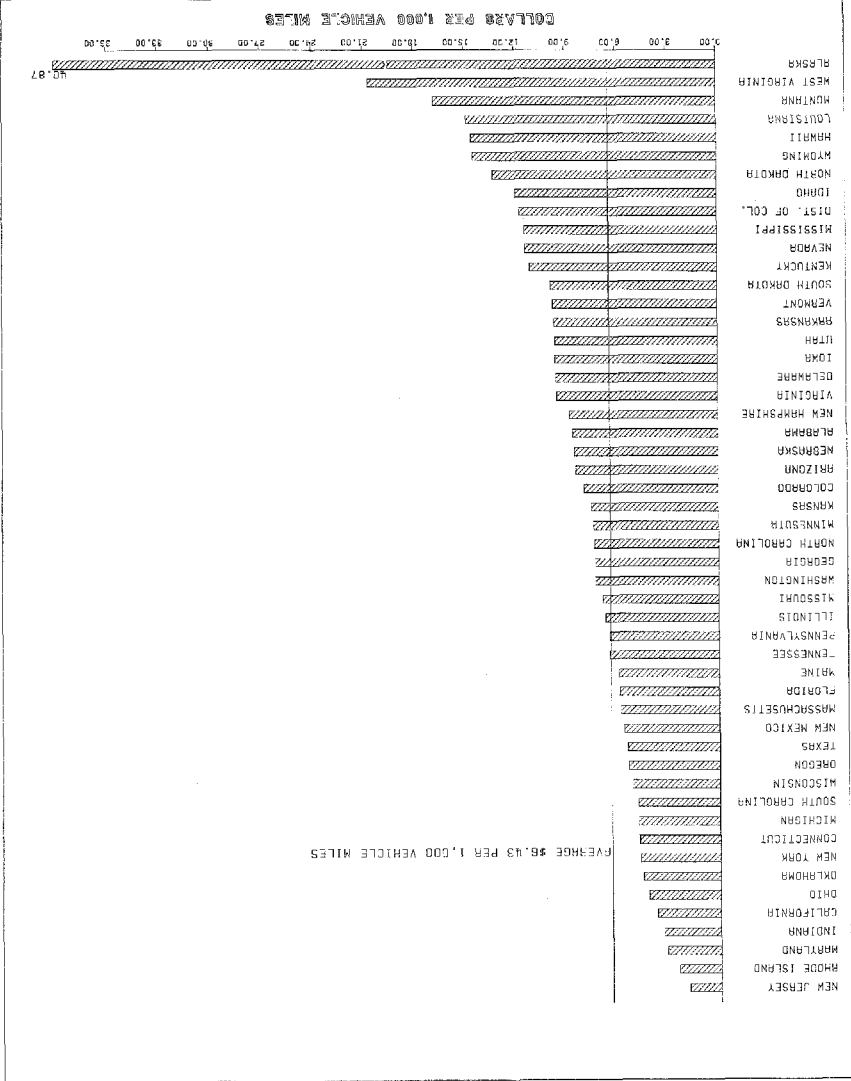


FIGURE 1

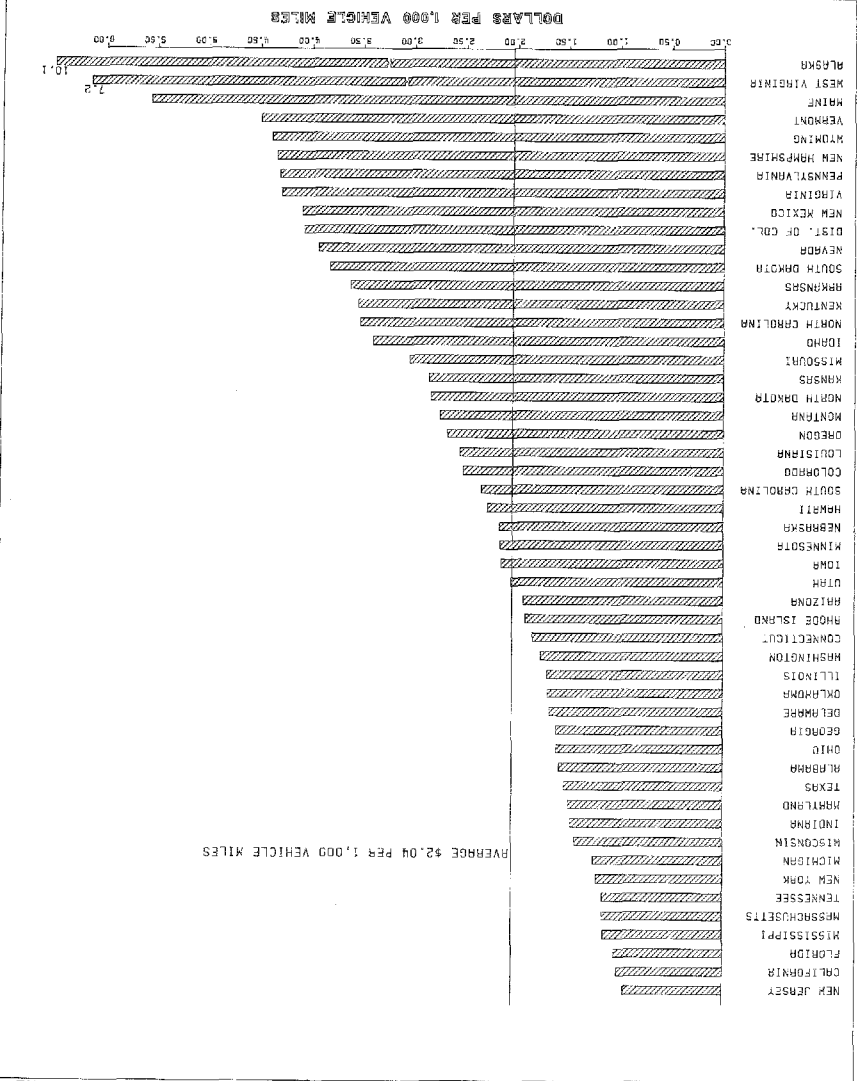
EXPENDITURES PER VEHICLE MILE OF TRAVEL
 FOR CAPITAL OUTLAY ON ROADS AND STREETS
 UNDER STATE JURISDICTION - 1977
 EXCLUDING TOLL FACILITIES

FIGURE 3



EXPENDITURES PER VEHICLE MILE OF TRAVEL
 FOR MAINTENANCE ON ROADS AND STREETS
 UNDER STATE JURISDICTION - 1977
 EXCLUDING TOLL FACILITIES

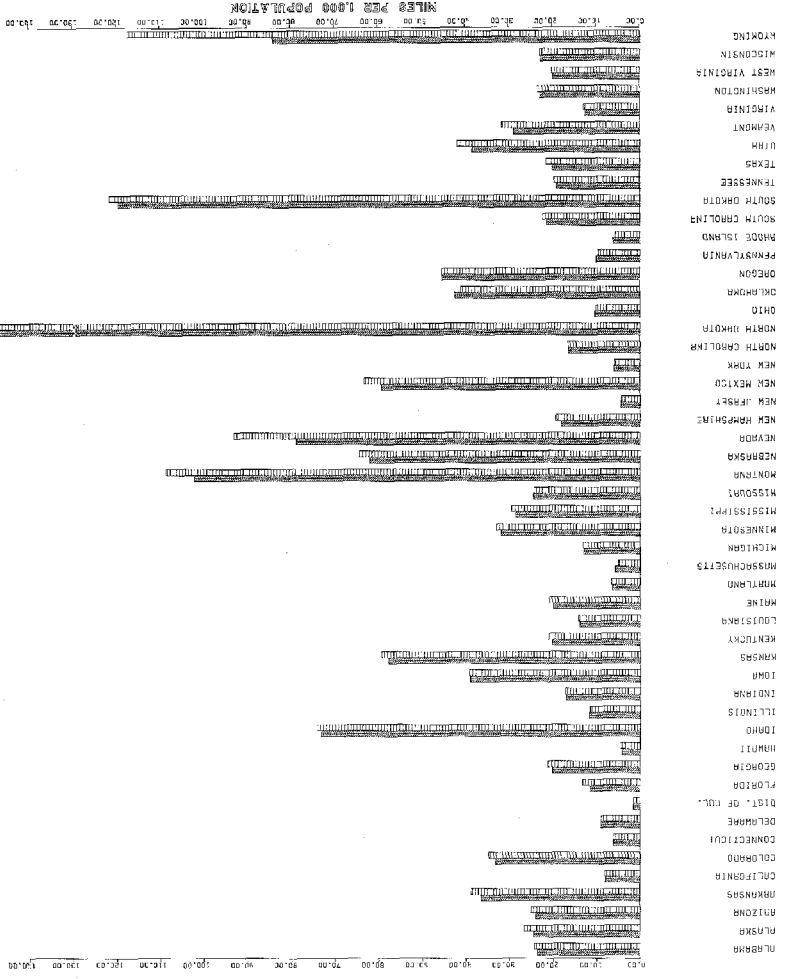
FIGURE 4



RELATIONSHIP BETWEEN TOTAL ROAD AND STREET
MILEAGE AND POPULATION BY STATE
1972 AND 1977

FIGURE 8

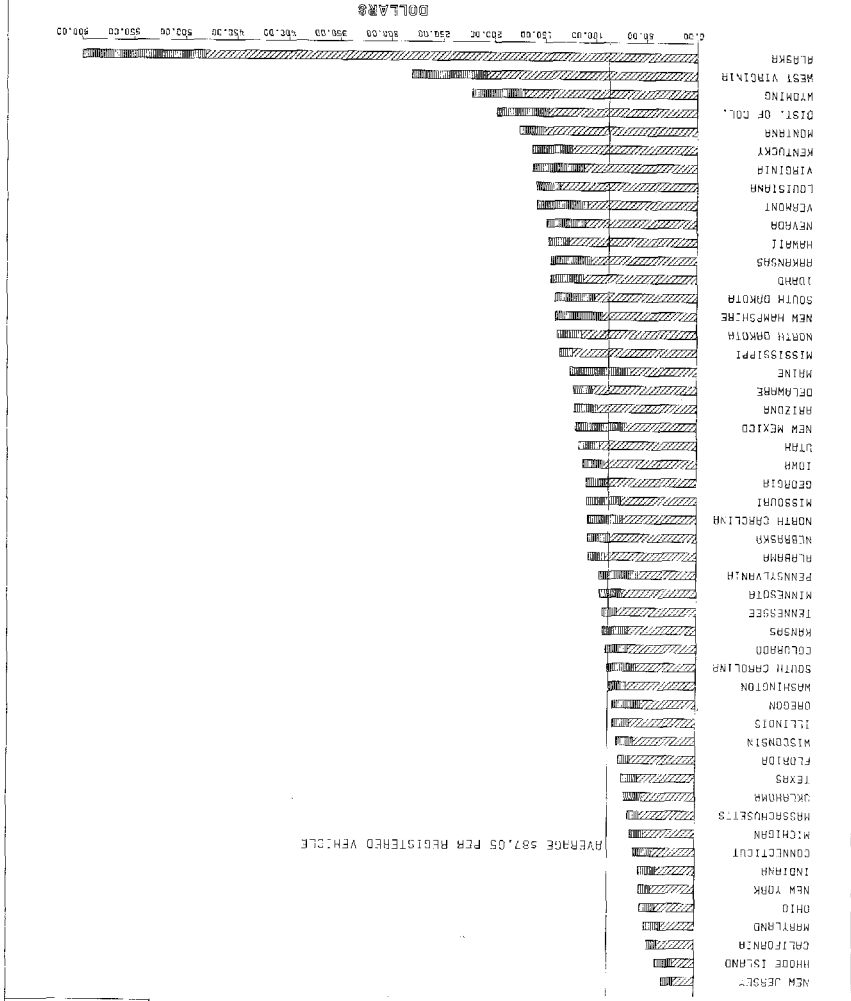
LEGNED



EXPENDITURES PER REGISTERED VEHICLE
ON ROADS AND STREETS UNDER STATE
JURISDICTION - 1977
EXCLUDING TOLL FACILITIES
(IN DOLLARS)

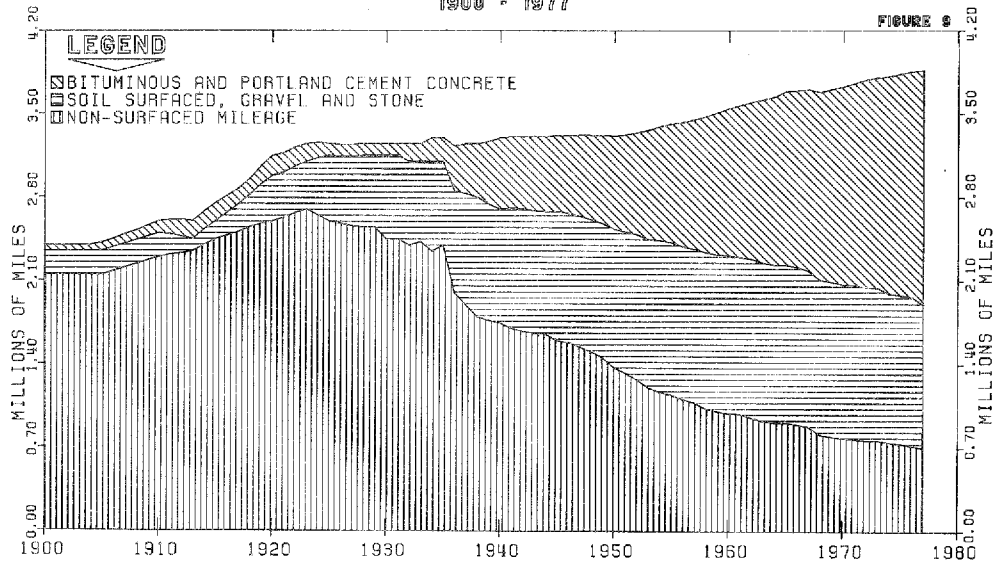
FIGURE 9

LEGNED
CAPITAL OUTLAY



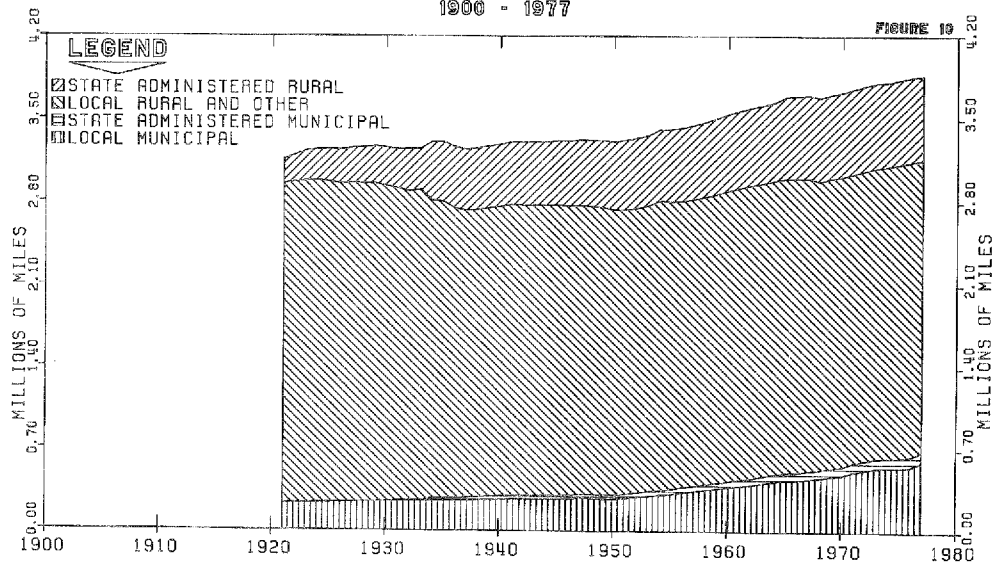
TOTAL ROAD AND STREET MILEAGE IN THE UNITED STATES

BY SURFACE TYPE
1900 - 1977



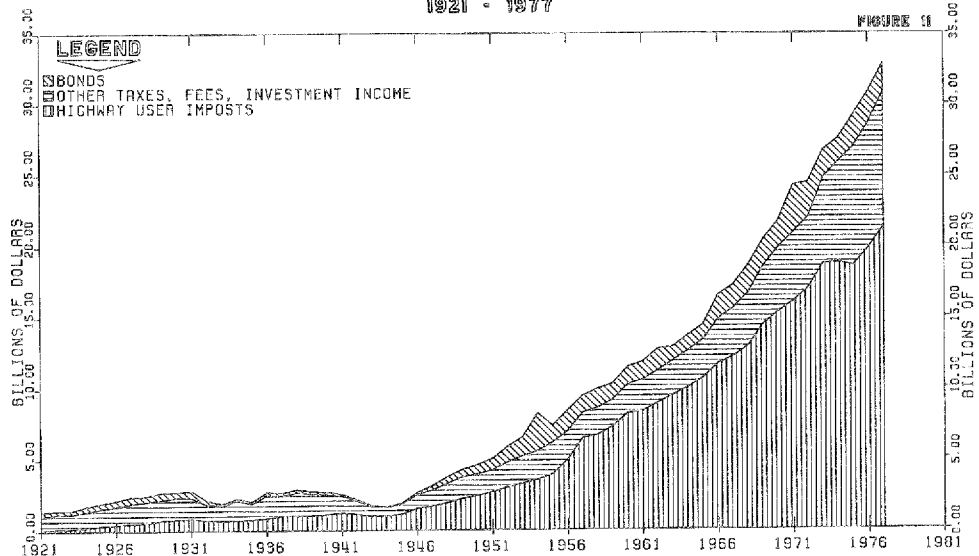
TOTAL ROAD AND STREET MILEAGE IN THE UNITED STATES

BY ADMINISTRATIVE JURISDICTION
1900 - 1977



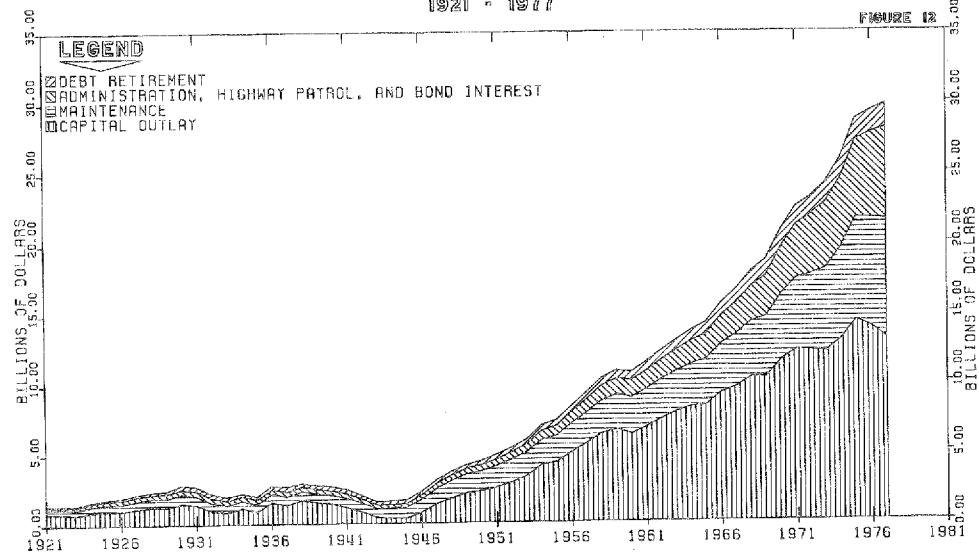
TOTAL RECEIPTS FOR HIGHWAYS. BY SOURCE

1921 - 1977



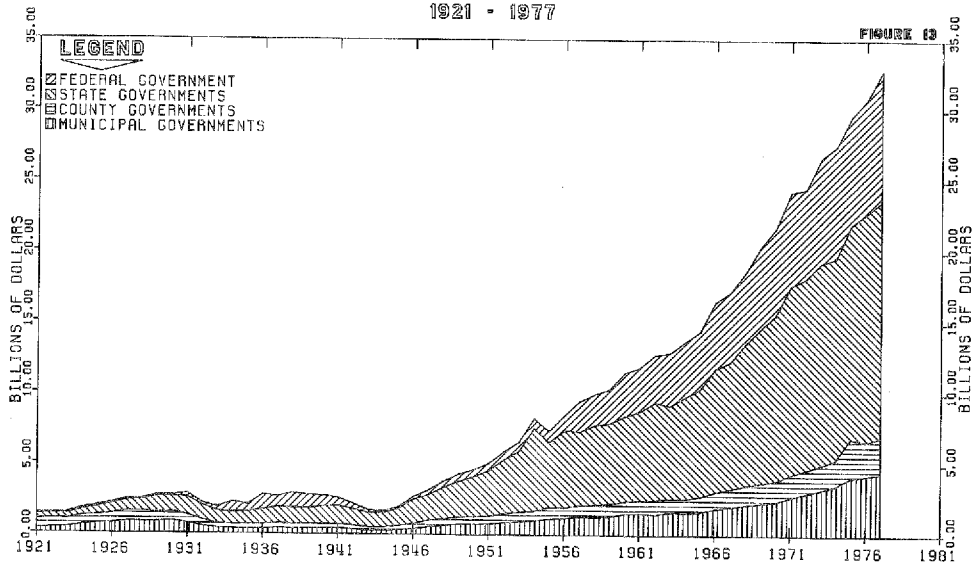
TOTAL DISBURSEMENTS FOR HIGHWAYS. BY FUNCTION

1921 - 1977



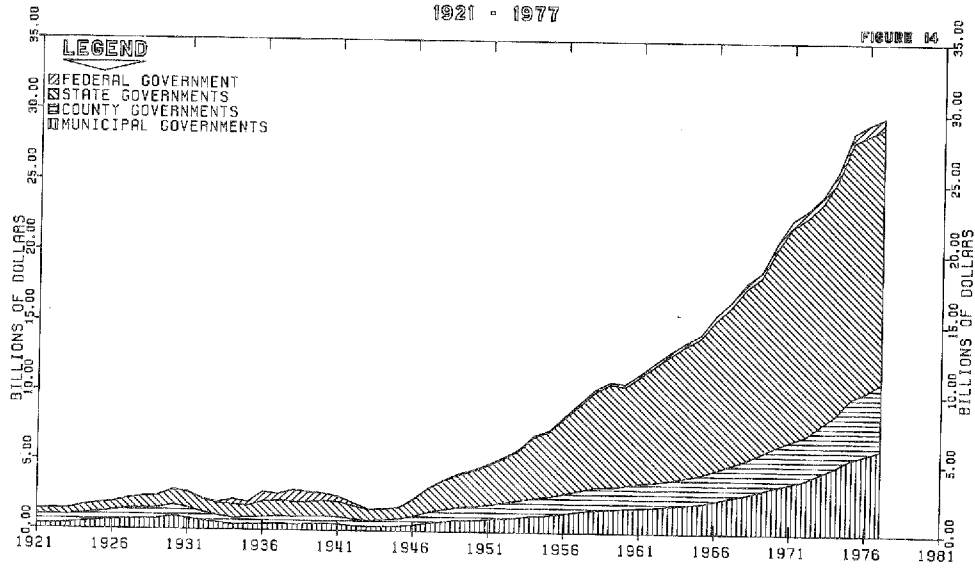
TOTAL RECEIPTS FOR HIGHWAYS, BY GOVERNMENTAL UNITS

1921 - 1977



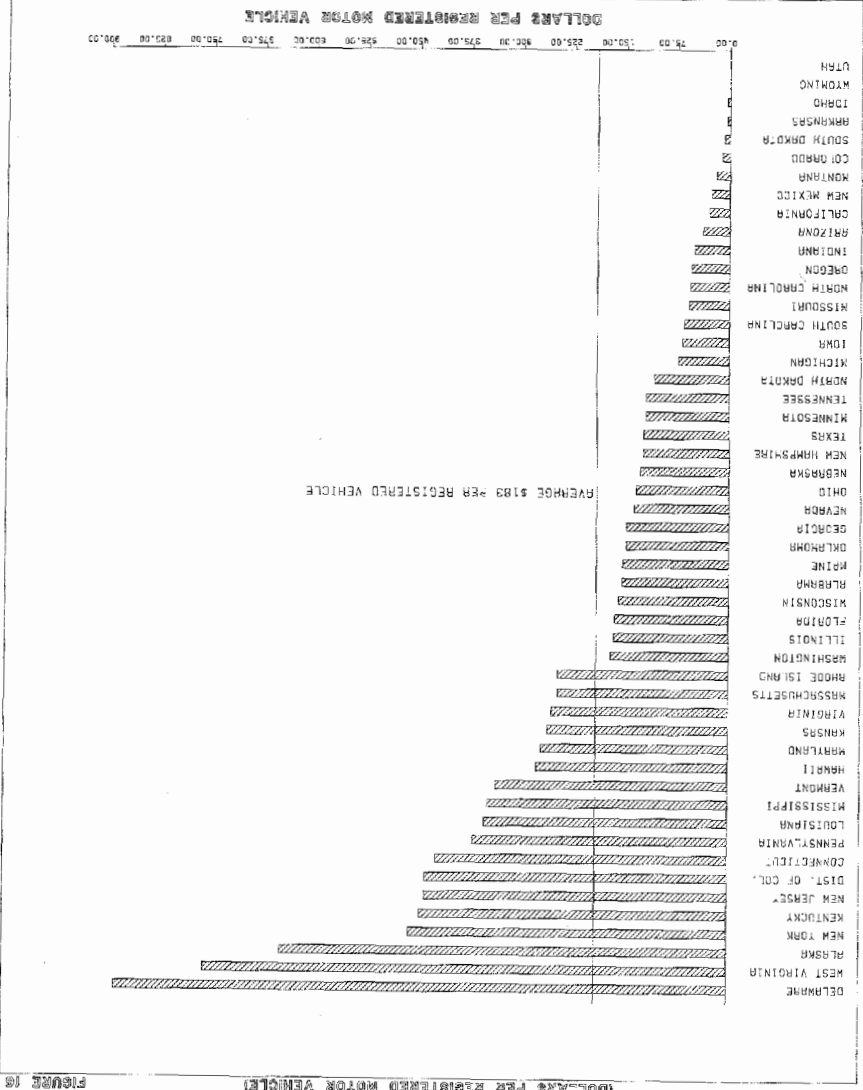
TOTAL DISBURSEMENTS FOR HIGHWAYS, BY GOVERNMENTAL UNITS

1921 - 1977



TOTAL HIGHWAY OBLIGATIONS OUTSTANDING
AS OF DECEMBER 31, 1978
(DOLLARS PER REGISTERED MOTOR VEHICLE)

FIGURE 16



TOTAL HIGHWAY OBLIGATIONS OUTSTANDING
DECEMBER 31, 1978

FIGURE 15

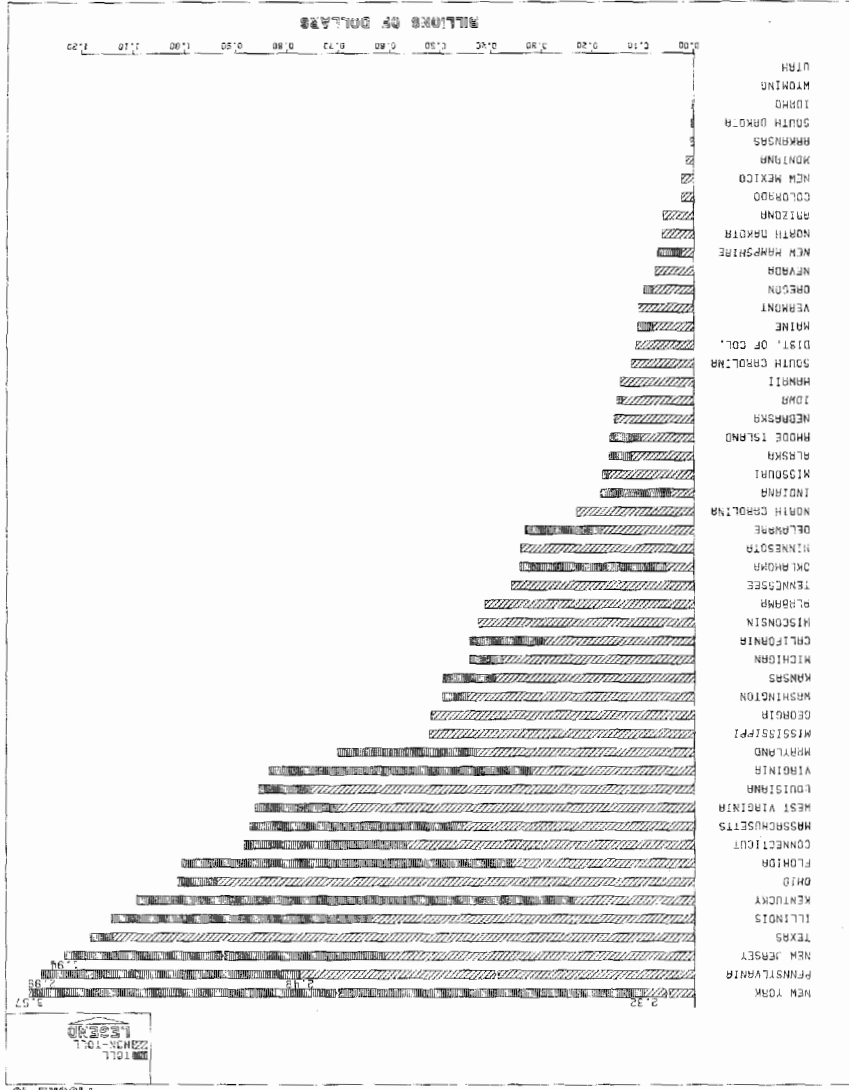
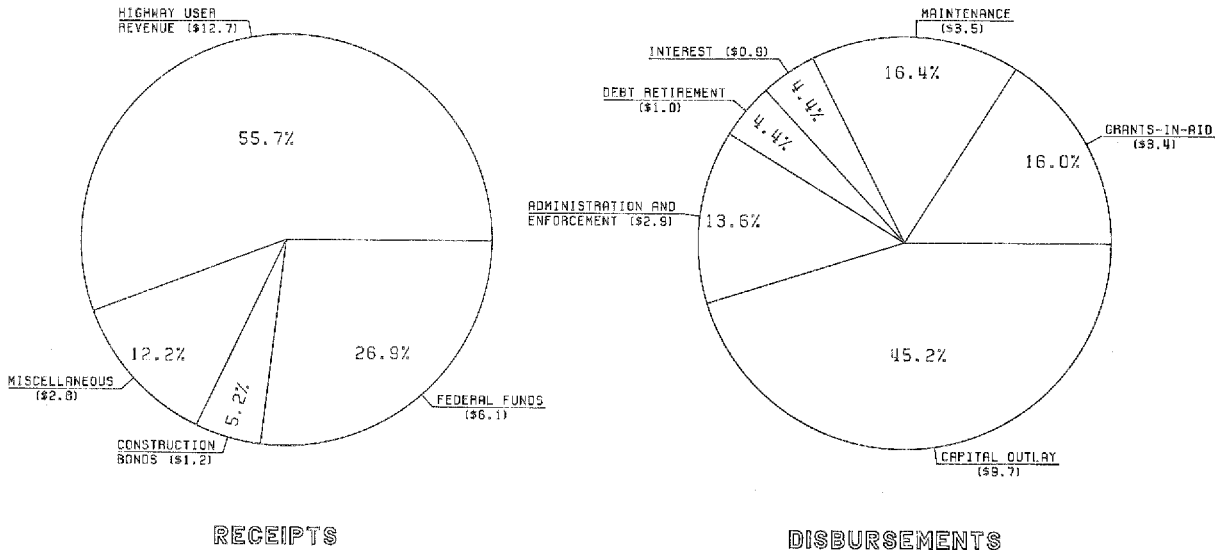


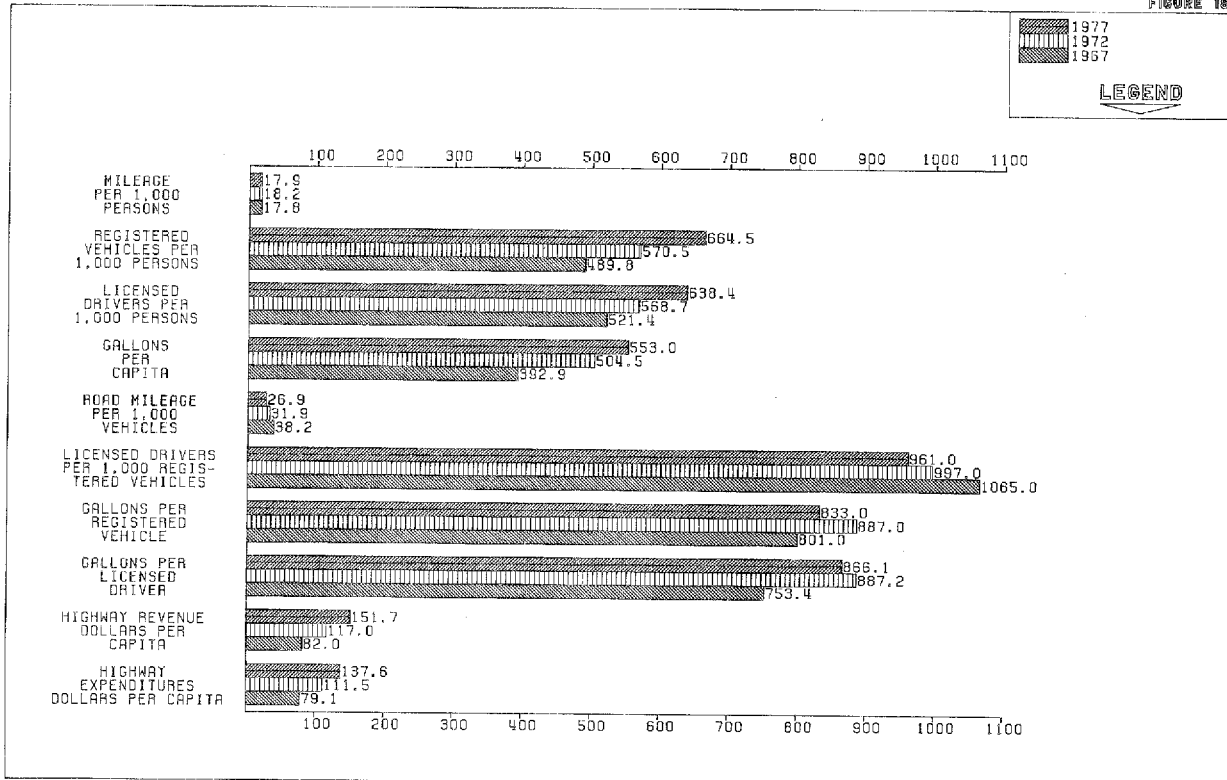
FIGURE 17

STATE RECEIPTS AND DISBURSEMENTS FOR HIGHWAYS
1977
(IN BILLIONS OF DOLLARS)



RELATIONSHIPS AMONG HIGHWAY MILEAGE, VEHICLES, DRIVERS,
FUEL CONSUMPTION AND FINANCING
1967, 1972 AND 1977

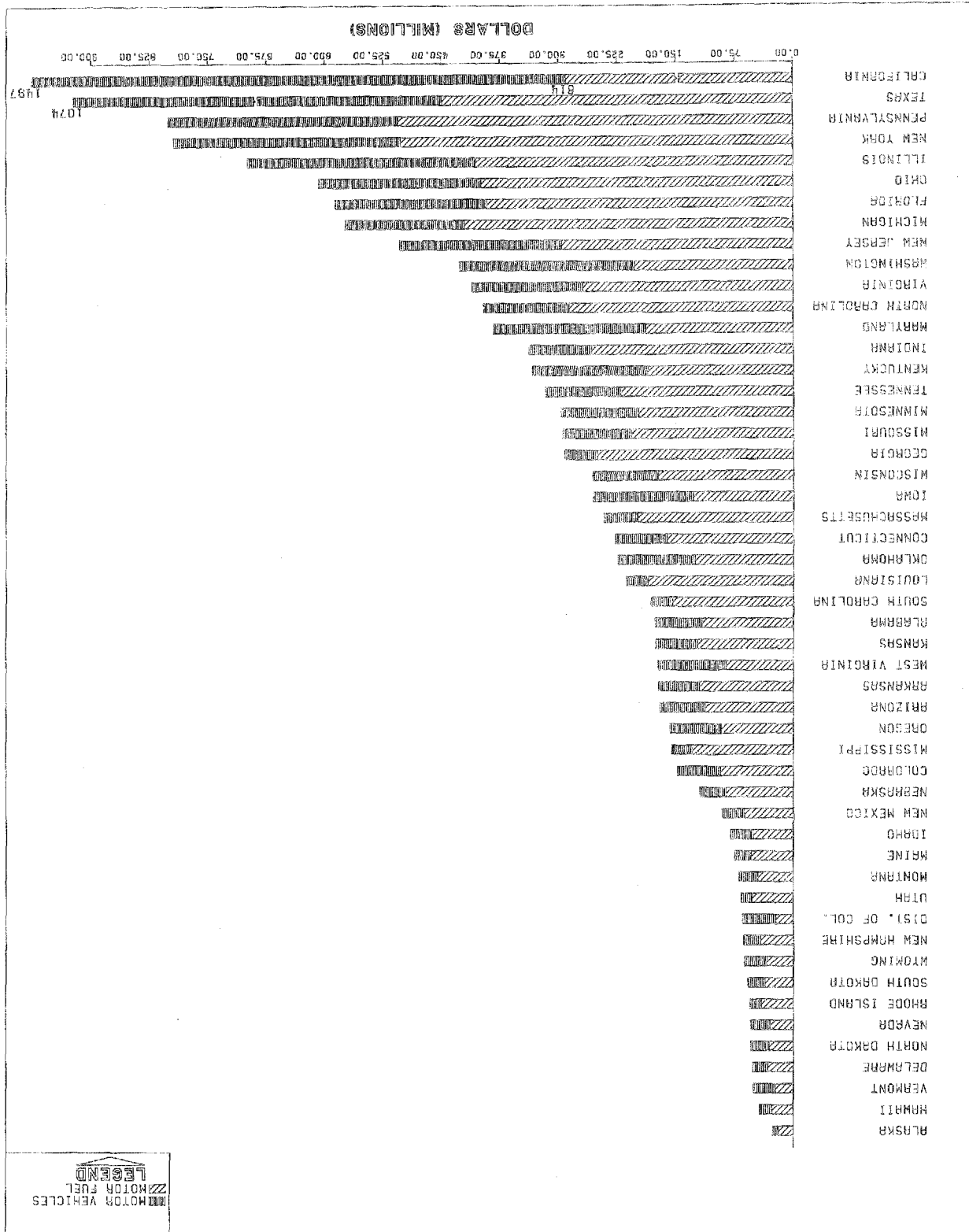
FIGURE 18



TOTAL HIGHWAY USER REVENUE 1977

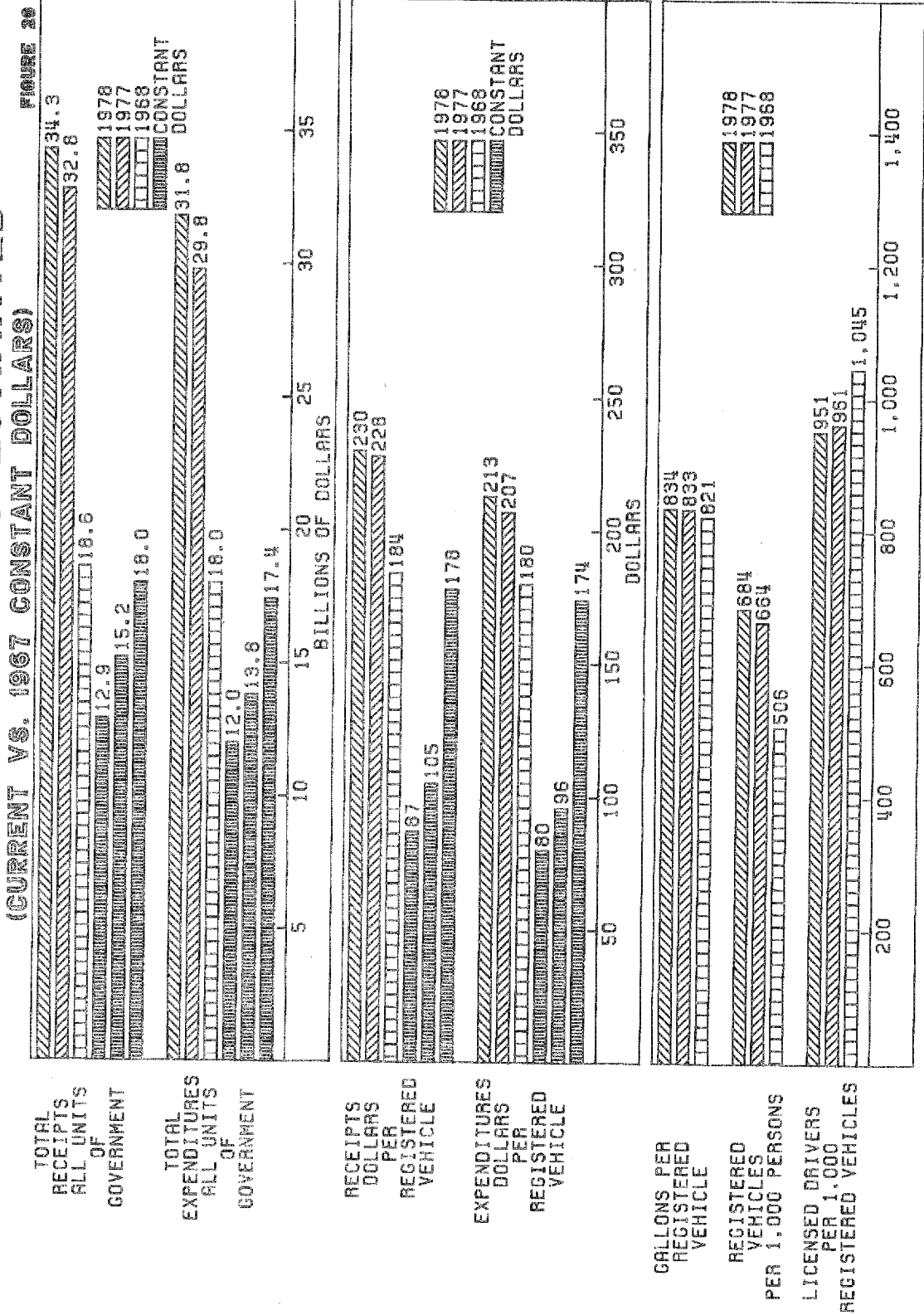
(IN MILLIONS OF DOLLARS)

FIGURE 10



MOTOR FUEL

FINANCIAL, FUEL, AND VEHICLE RELATED 1968, 1977 AND 1978 ESTIMATED



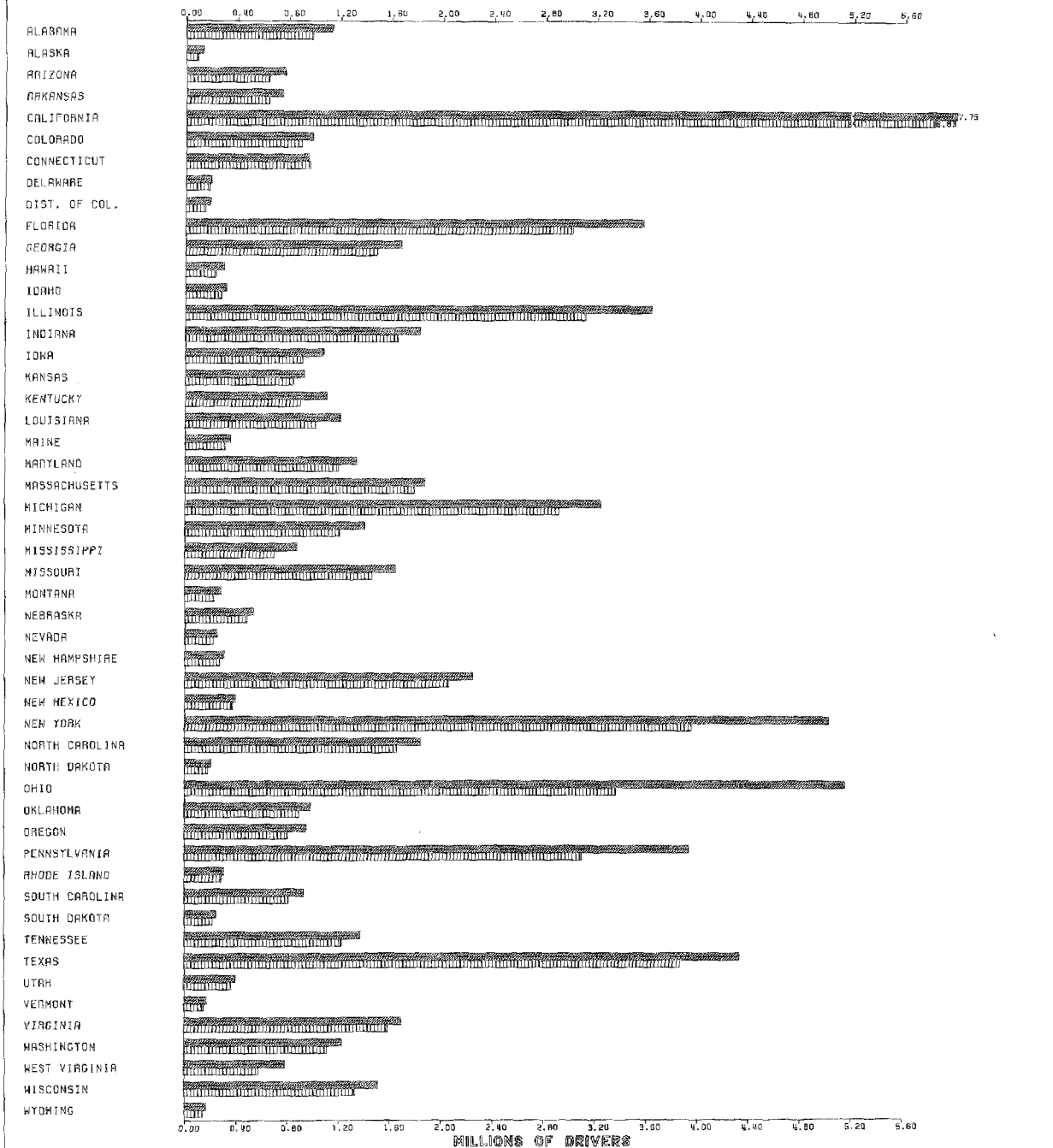
ESTIMATED LICENSED DRIVERS, BY SEX 1977

(MILLIONS OF DRIVERS)

FIGURE 21

MALE
 FEMALE

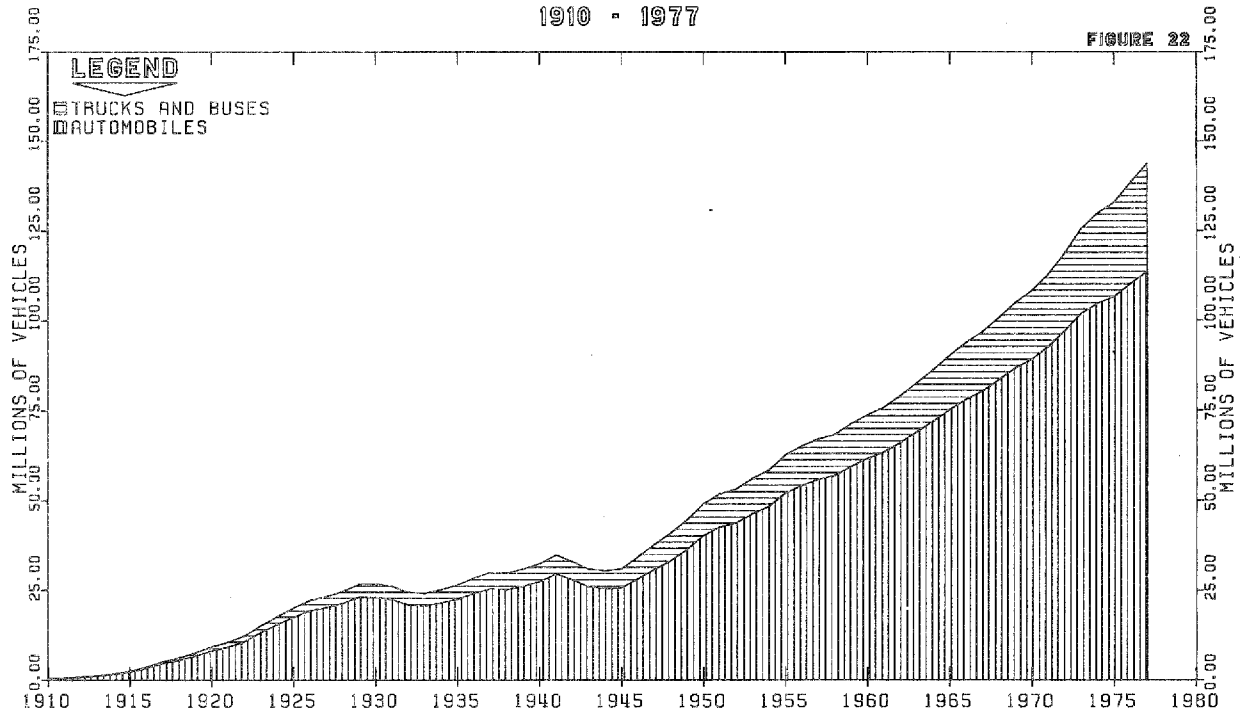
LEGEND



TOTAL MOTOR VEHICLE REGISTRATIONS

1910 - 1977

FIGURE 22



TOTAL MOTOR FUEL USE IN THE UNITED STATES

(EXCLUDING "LOSSES")

1949 - 1977

FIGURE 23

