



U.S. Department
of Transportation

**National Highway
Traffic Safety
Administration**

CARDfile Data Base Representativeness

Phase I: General Characteristics including Populations, Vehicles, Roads, and Fatal Accidents

Project Memorandum
DOT-TSC-HS802-PM-88-16
August 1988

Santo Salvatore
Peter Mengert
Robert Walter

Operator Performance and
Safety Analysis Division

Approved for Distribution

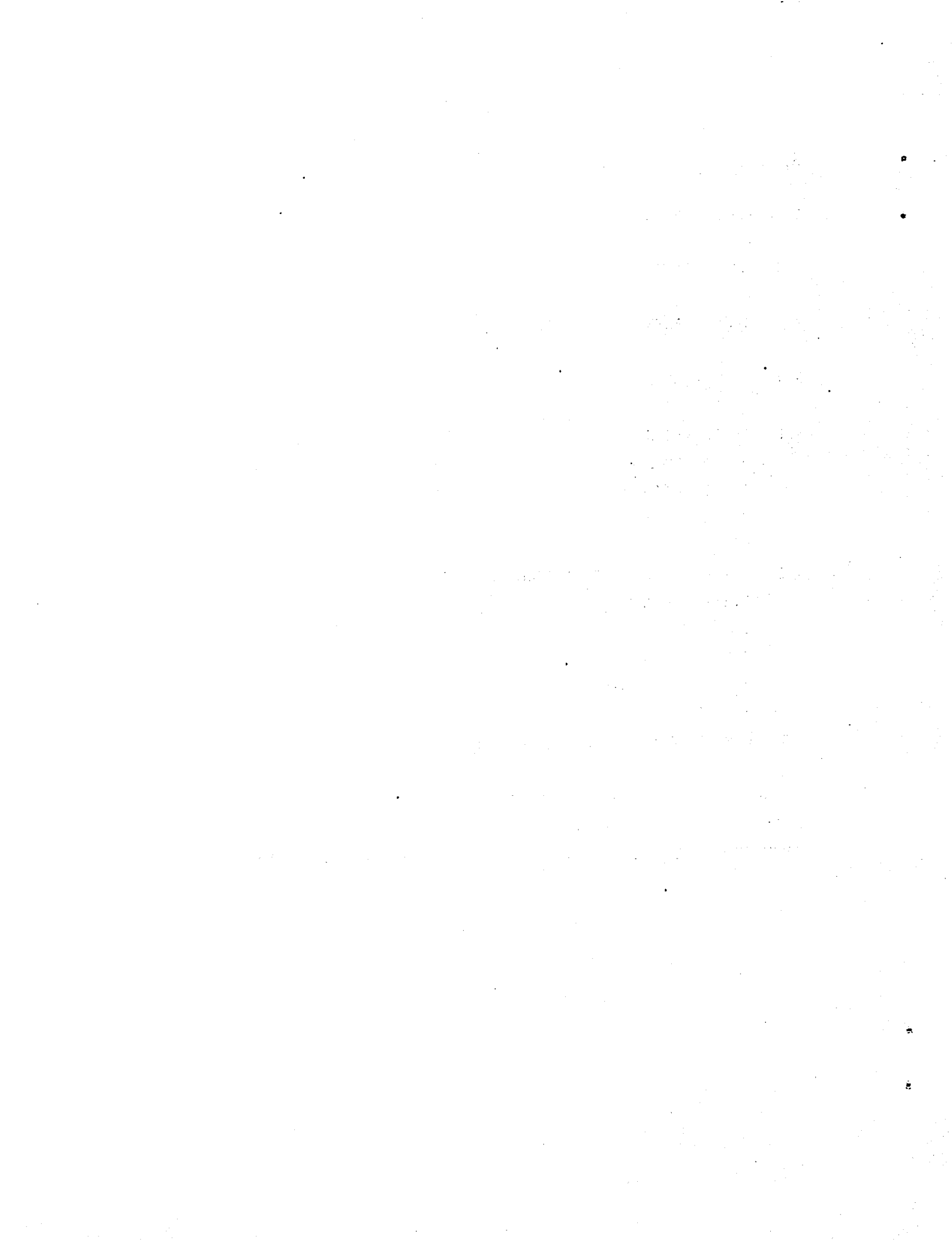
Division Chief

U.S. Department of Transportation
Research and Special Programs
Administration
Transportation Systems Center
Cambridge, MA 02142

This document is considered internal to the agency with
select distribution controlled by the agency.

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
EXECUTIVE SUMMARY	iii
1.0 INTRODUCTION	1
2.0 DATA PRESENTATION FORMAT	3
3.0 DATA ANALYSIS	6
3.1 POPULATIONS	6
3.1.1 PEOPLE	6
3.1.2 VEHICLES	7
3.1.3 ROADWAYS	9
3.2 FATAL ACCIDENT POPULATION SUBSETS	11
3.2.1 PEOPLE	11
3.2.2 VEHICLES	12
3.2.3 ROADWAYS	12
3.2.4 ACCIDENTS	13
4.0 CONCLUSIONS AND RECOMMENDATIONS	14
APPENDIX A. TABLES OF AGGREGATED CARDFILE STATES VS. NATION	A-1
APPENDIX B. GRAPHS OF CARDFILE STATES VS. NATION	B-1
APPENDIX C. TABLES OF INDIVIDUAL CARDFILE STATES VS. NATION	C-1



EXECUTIVE SUMMARY

This report details the results of an analysis performed to evaluate the representativeness of the Crash Avoidance Research accident data base (CARDfile). The accident records for 1983 and 1984 from six states (Indiana, Maryland, Michigan, Pennsylvania, Texas, and Washington) were combined into one data base that now contains 3.2 million accidents that involved 5.6 million vehicles. NHTSA's Office of Crash Avoidance (NRD-50) has been using CARDfile to evaluate crash avoidance concepts and to assist in program development. In order to make the best use of CARDfile, it is important to understand how well the accident experience derived from the six CARDfile states represents that of the nation as a whole.

As the first effort in an evaluation of representativeness, TSC, in support of NRD-50, examined general characteristics of the population, the vehicles, the roads, and the fatal accidents in these states and compared them to the same characteristics for the nation as a whole. For this comparison, the data from the six states was aggregated. (The results for each state can be found in Appendix C.) The characteristics that were compared included the age and sex of both the populations and of licensed drivers, the number of vehicle registrations, the vehicle makes and models, annual vehicle miles of travel by road class, and the milage by various road classes. Similar characteristics were compared using NHTSA's Fatal Accident Reporting System (FARS). A complete list of the characteristics can be found in Section 2. The data sources used for the comparison included Population Characteristics and Statistical Abstracts from the U.S. Department of Commerce, Highway Statistics, and the Fatal Accident Reporting System from the U.S. DOT and the National Vehicle Population Profiles from R.L. Polk and Company. This comparison was based on 1984 because that year was the most recent year for which all the data was available. The results are presented in both tabular and graphic form in Appendix A and B. It was found that the six CARDfile states agree well with the nation. A summary of the results are shown in Figure S-1. This figure is based on the ratio of the percentage of a particular category in the CARDfile state to the percentage of that same category in the nation. The ideal value is 1.000. A value of 1.05, for

example, would indicate an over-representation in the CARDfile states of five percent.

The CARDfile states contain 21.7 percent of the general population and when this population is separated by age and sex, the CARDfile states are generally within two percent of the national results. The exception to this is the over 65 population where the six combined states are under-represented by five percent. The same trend was noted in licensed drivers where the CARDfile states represent a younger population. The six states have two percent less automobiles, but six percent more trucks than the nation. They also register more domestic vehicles (+4 percent) and less imported vehicles (-19 percent) when compared to the national figures.

When the most popular specific makes and models of vehicles registered in the CARDfile states were compared to those in the nation, it was found that they were generally over-represented in the states by a few percent. This trend can be attributed to the fact that these popular vehicles are domestics and more domestics are bought in the CARDfile states.

There is very good agreement (within two percent) between the selected states and the nation on urban and rural vehicle miles of travel by road functional class. However, some discrepancies, up to ten percent, are evident within the rural and urban categories for different road classes. The six states have less rural road milage by seven percent and more urban milage by thirty-two percent. The states' motor vehicle fatalities classified by age and sex mirrored, to some degree, the results obtained from the general population. That is, the fatalities in the CARDfile states occur to slightly younger people.

When the most popular makes and models of vehicles involved in fatal accidents were examined, many of the same vehicles that were on the list of the most popular registered vehicles were found. In general, pickup trucks were more often involved (by up to ten percent) in fatal accidents in the six states than the nation (there are more pickup trucks in these states) and vans were less involved (by up to ten percent). Eleven percent more fatal accidents occur on interstates in the six states than in the nation as a whole and 14 percent more occurred on concrete roads.

At the individual state level, we found that, in some instances, particular states were responsible for the trends that were noted at the state aggregated level. The following examples demonstrate this effect:

1. For the population as a whole, the over-representation of younger people and under-representation of older people in the CARDfile states is driven by Texas. Texas has fewer people over 65 (0.80) and more people under 14 (1.14).
2. The over-representation of younger licensed drivers in the CARDfile states is due primarily to Michigan and Maryland which have ratios of 1.57 and 1.31, respectively, for drivers 19 years of age or younger.
3. The imbalance of registered trucks over registered cars is driven by Texas and Washington. Texas (1.33) and Washington (1.27) have more trucks and fewer cars (0.90 and 0.92, respectively).
4. The favoring of domestic cars in the CARDfile states is because of fewer imports in Michigan (0.46) and Indiana (0.54).
5. The over- and under-representation of make/models in the top 20 is driven by Texas and Washington. Over-representation of truck-type vehicles is strong in Texas for the Dodge Mini-Ram (1.91), Chevrolet C-10 (1.53), Chevrolet K-10 (1.43), and the Chevrolet Blazer (1.41). Under-representation is shown in Washington for the Chevrolet Monte Carlo (0.62), Chevrolet Impala (0.49), Ford Granada (0.63), Cadillac Deville (0.54), Ford LTD (0.56), Chevrolet Blazer (0.58), Chevrolet Chevette (0.63), Chevrolet Malibu (0.69), and Oldsmobile Delta Royal (0.35).
6. Maryland drives the CARDfile states' over-representativeness on urban roads. Maryland has more local urban roads (2.18), urban collectors (1.95), urban interstate (2.49), and urban principal arteries (2.41). Maryland also has less rural local roads (0.72) and rural major collectors (0.67).

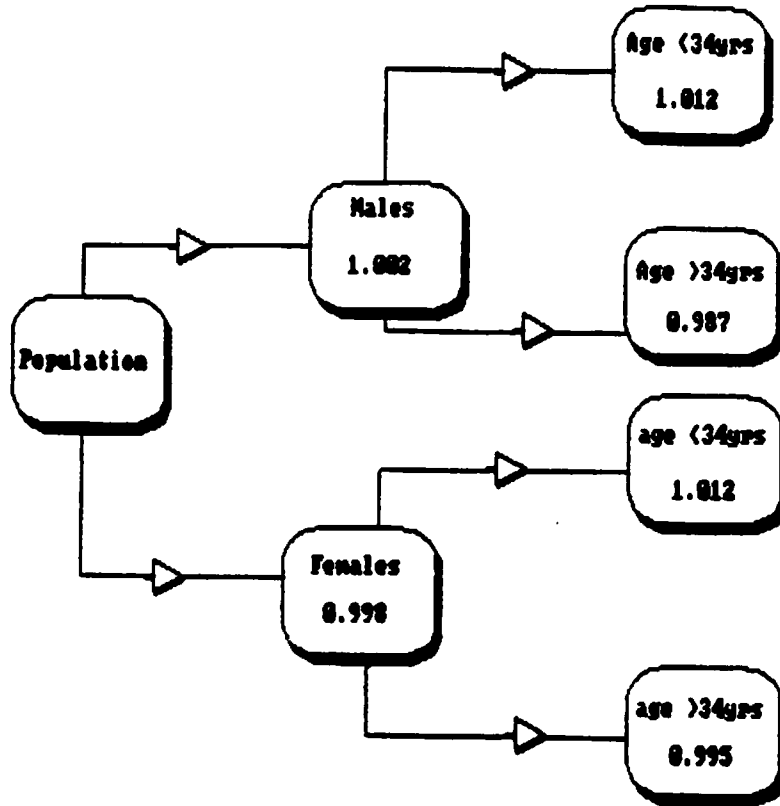


Figure S-1(a). Population - Ratio of CARDfile States (%) to Nation (%)

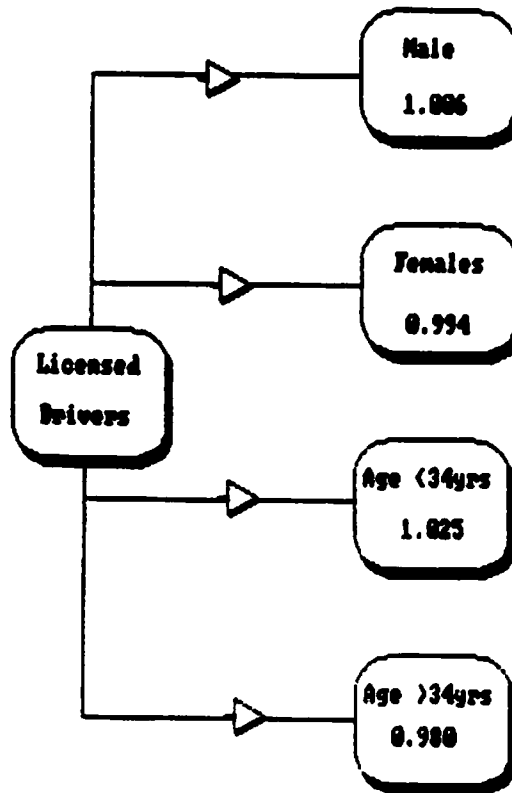


Figure S-1(b). Licensed Drivers - Ratio of CARDfile States (%) to Nation (%)

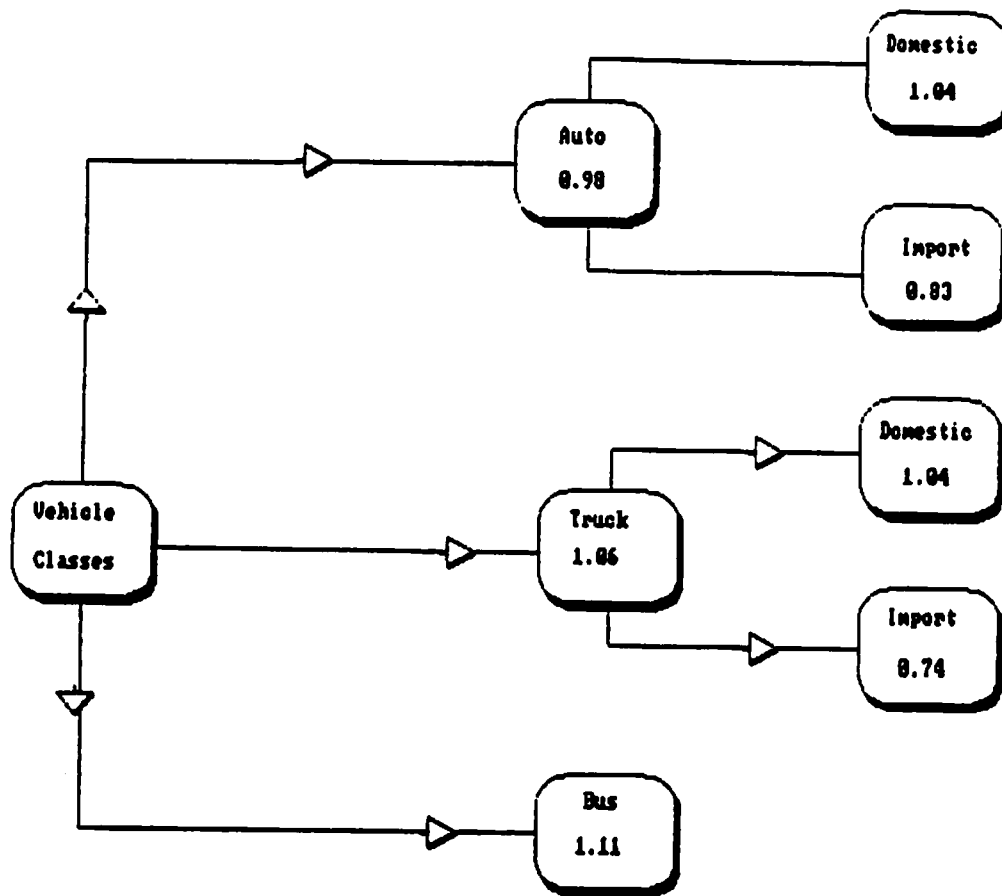


Figure S-1(c). Vehicle Registrations by Class - Ratio of CARDfile States (%) to Nation (%)

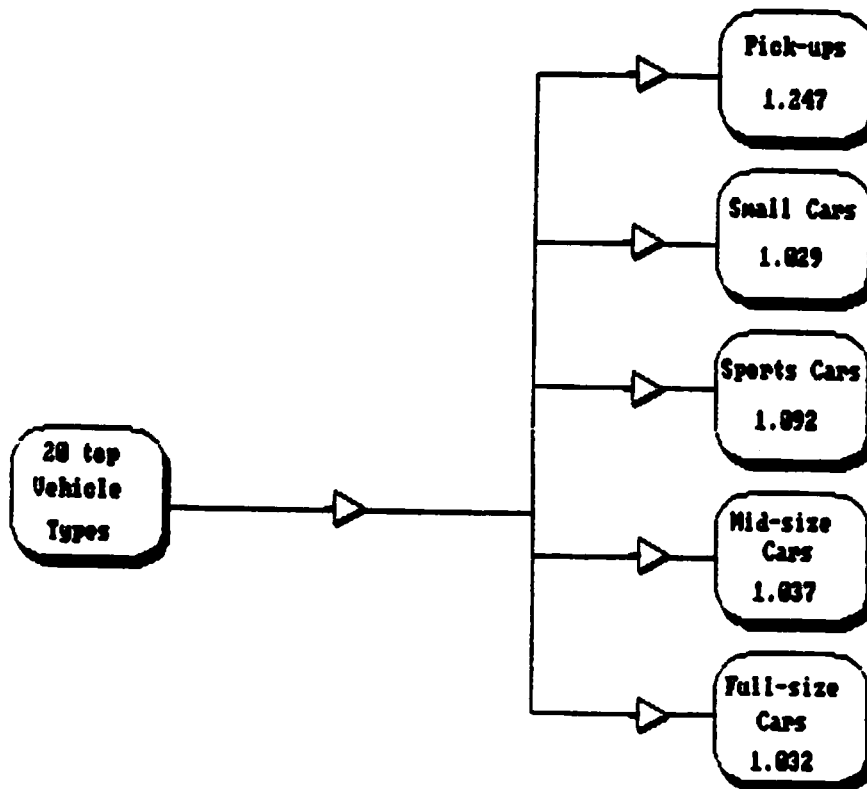


Figure S-1(d). Vehicle Types - Ratio of CARDfile States (%) to Nation (%)

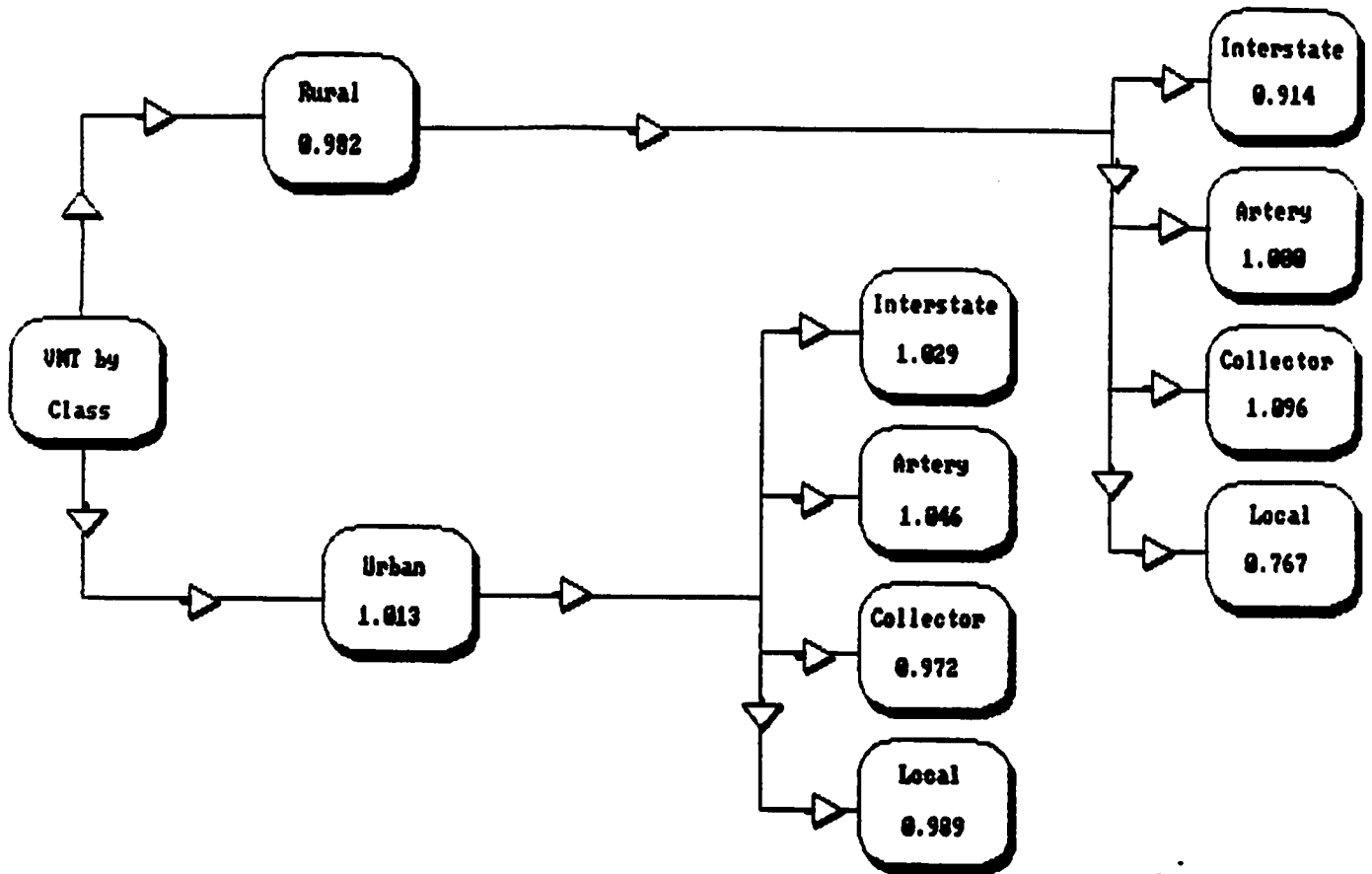


Figure S-1(e). Vehicle Miles Travelled by Class - Ratio of CARDfile States (%) to Nation (%)

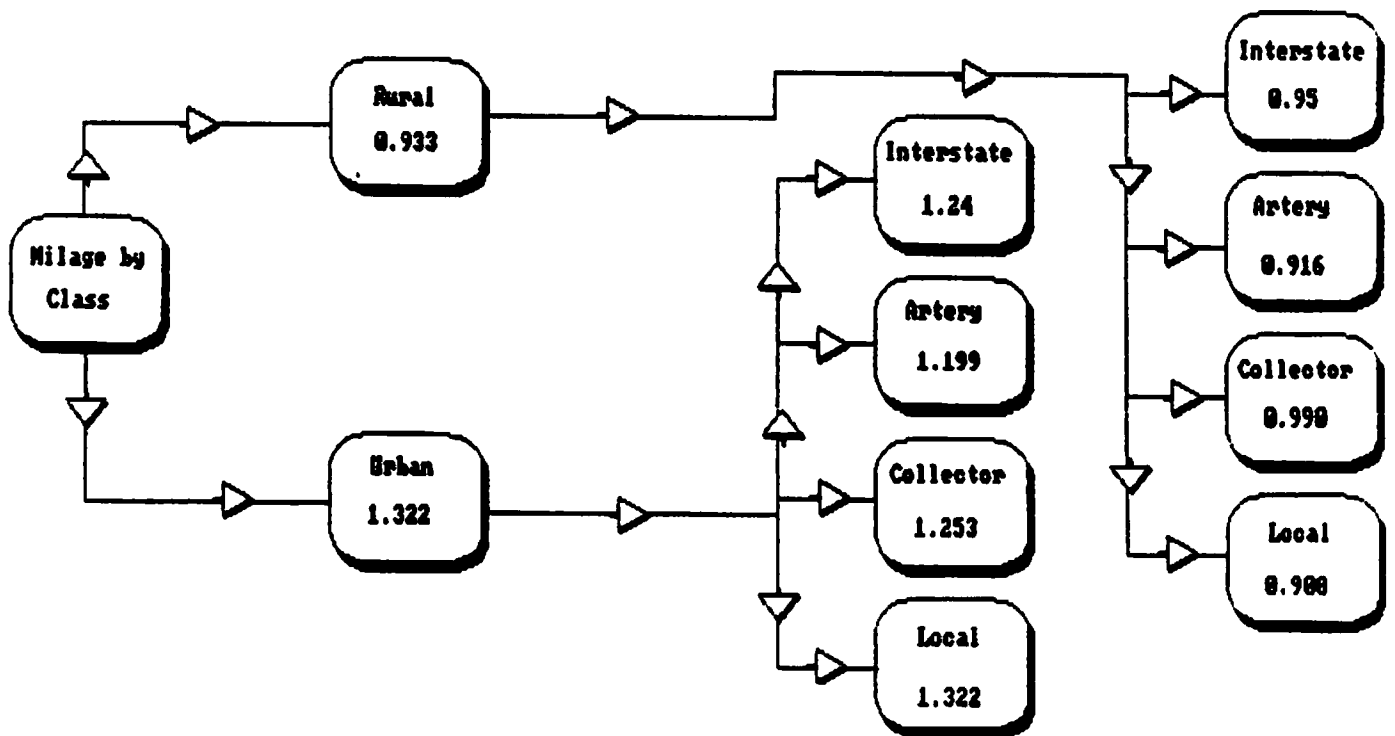


Figure S-1(f). Highway Mileage by Class - Ratio of CARDfile States (%) to Nation (%)

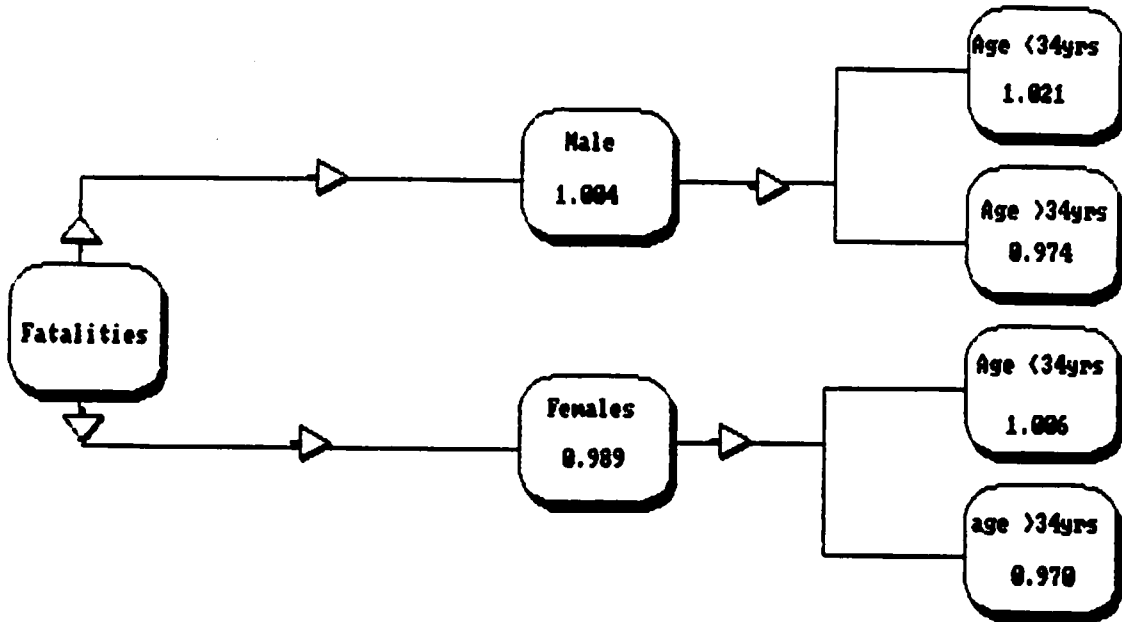


Figure S-1(g). Fatalities by Gender - Ratio of CARDfile States (%) to Nation (%)

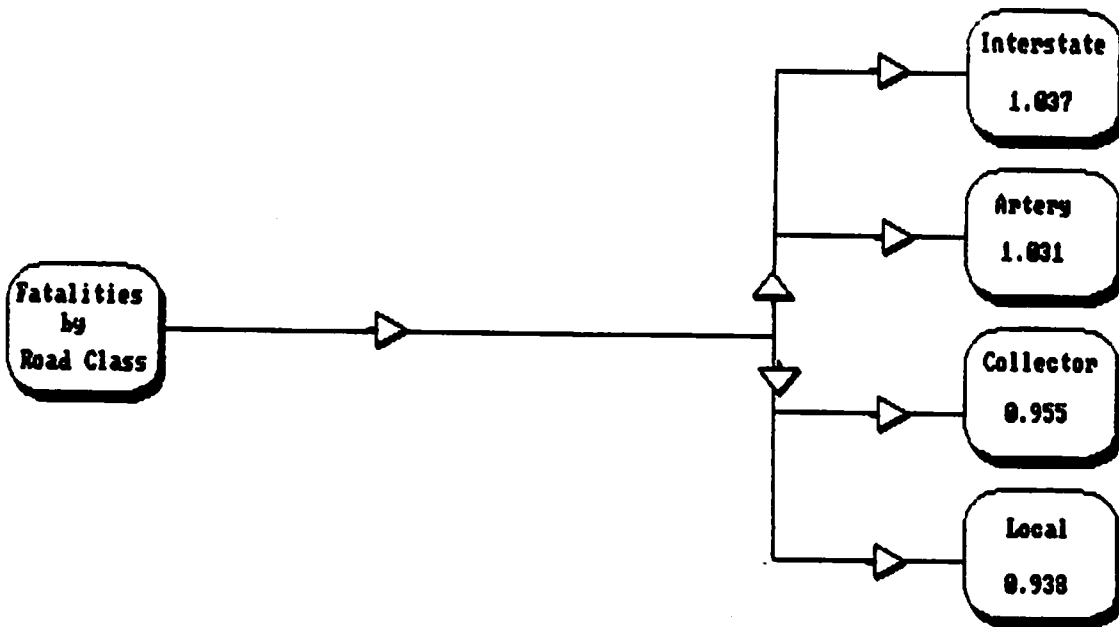


Figure S-1(h). Fatalities by Road Class - Ratio of CARDfile States (%) to Nation (%)

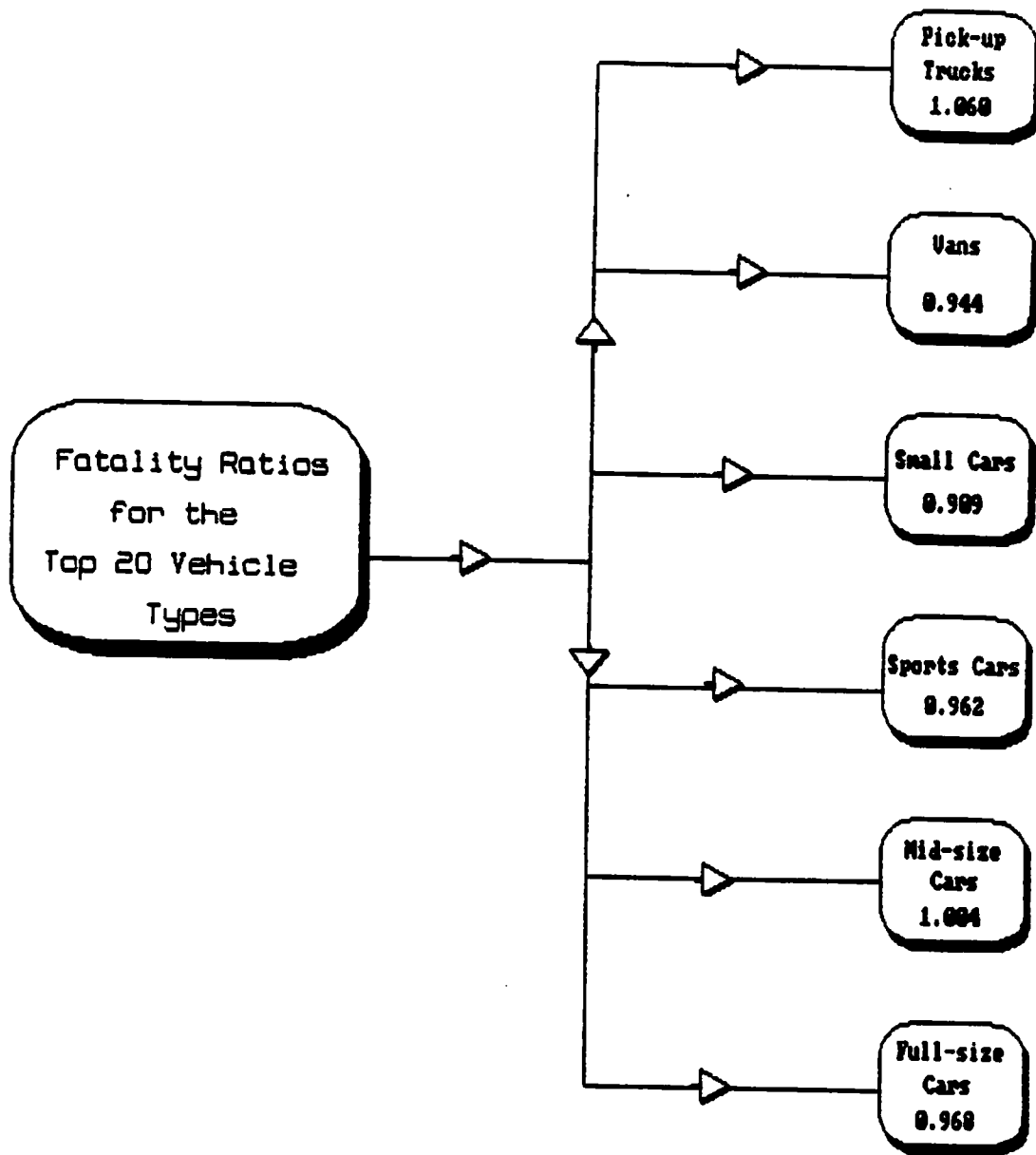


Figure S-1(i). Fatalities by Vehicle Type - Ratio of CARDfile States (%) to Nation (%)

1.0 INTRODUCTION

The Crash Avoidance Research Data file (CARDfile) consists of crash data extracted from the automated police accident reports of six selected states. CARDfile has been designed both to provide the information needed to examine the relationship between selected crash avoidance vehicle design characteristics and their crash propensity and to support problem identification activities in crash avoidance research.

The CARDfile data base now contains in excess of 3.2 million accidents involving 5.6 million vehicles. Six states were selected for inclusion in CARDfile on the basis of data availability in machine-readable form and commonality of data fields. The data has been obtained from the following states:

- o Indiana;
- o Maryland;
- o Michigan;
- o Pennsylvania;
- o Texas; and
- o Washington.

NHTSA requested TSC's support in examining how representative these states are when compared to the nation. The first phase of this effort was to examine some general characteristics relating to the people, vehicles, highways, and fatal accidents in these six states and compare them to the nation. The next phase will examine the accident experience representativeness of CARDfile. Other phases will address the adequacy of the pre-crash maneuvers coded in CARDfile, and, if required, the development of factors to extrapolate CARDfile data to the national experience. The representativeness of the CARDfile sample provides a degree of confidence in its utility as the basal predictor for the nation.

The purpose of this project memorandum is to present the results of Phase I on testing of the representativeness of NHTSA's CARDfile data base.

Phase I of this project called for an analysis that compared the populations of people, vehicles, and highways, aggregated over the six CARDfile states to

3.0 DATA ANALYSIS

In this section, we will review, using the tables in Appendix A, each characteristic and its subclasses that were given in the data presentation format, Section 2.

3.1 POPULATIONS

3.1.1 PEOPLE

Table 1. People by Age

The CARDfile states contain 51.15 million people, which is 21.66 percent of the national population. The CARDSTATES/NATION ratio shows the age brackets to be within \pm two percent except for the over 65 group for which the ratio shows five percent fewer people in the CARDfile states. When we compare Columns 3 and 5, the percentage of people over 65 in the CARDfile states is 0.5 percentage points smaller than that of the nation as a whole. The remainder of the age brackets are within one half of one percentage point. Table 1 (Appendix C) shows that Texas has a much younger population than the rest of the CARDfile states. The ratios for Texas are 1.14 for the under 14 population, and 0.80 for the over 65 population. Pennsylvania is the only CARDfile state in which the older population is over-represented (ratio of over 65 is 1.19). Maryland has more of a middle-aged population.

Table 2. People by Sex by Age

The breakdown by age and sex shows that the ratios of the CARDfile age brackets are within two percent of the national age brackets (Column 7), except for the oldest age group for both sexes where the ratio difference is between five and eight percent. However, in terms of the percentage discrepancy between the CARDfile states (Column 3) and the nation (Column 5), the differences are quite small, being 0.20 percentage points for the over 70 males and 0.28 percentage points for the over 70 females.

The sex summary at the bottom of the table shows that the CARDfile states' population consists of 48.70 percent males and 51.30 percent females. The ratio shows that in the CARDfile states, males are over-represented by two-tenths of one percent and the females are under-represented by two-tenths of

one percent. Again, Texas has the younger population and Pennsylvania the older for both sexes (Table 2, Appendix C).

Table 3. Licensed Drivers by Age (Millions of Drivers)

The CARDfile states have 21.99 percent of the nation's licensed drivers. The CARDSTATES/NATION ratio shows that the largest discrepancies are in both the older and younger age brackets. The under 19 drivers are over-represented by five percent in the CARDfile states. This may be caused, in part, by the licensing laws in these states and the population (see Table 2) whereas the five percent to eight percent under-representation in the older ages (over 60) may be determined primarily by the population statistics.

The sex summary at the bottom of the table shows that in the CARDfile states, 52.43 percent of the licensed drivers are males and 47.57 percent are females. These numbers are within one half of one percent of the national figures (Column 7).

Table 3B. Ratio of Licensed Drivers to People

The CARDfile states have nine more drivers per thousand, all residents considered, than the nation as a whole. Restricting the population to people of driving age shows that the CARDfile states have 16 more drivers per thousand than the nation. The CARDSTATES/NATION ratio is approximately the same for both residents and residents over 15 (1.014 and 1.019, respectively). There are more licensed drivers in Michigan, Washington, and Texas and less in Maryland and Pennsylvania when compared to the nation (Table 3B, Appendix C).

3.1.2 VEHICLES

Table 4. Motor Vehicle Registration (Millions)

The CARDfile states registered 36.20 million, or 21.74 percent, of the nation's vehicles. (They have 21.66 percent of the population.) The CARDfile states have less registered automobiles--75.47 percent versus 76.80 percent for the nation--and more registered trucks and buses--24.14 percent versus 22.85 percent for the nation and 0.39 percent versus 0.35 percent for the nation, respectively. This may be accounted for, in part, by the higher use of trucks in the rural/farming states of Indiana, Texas, and Washington (Table 4, Appendix C).

Table 5. Registered Vehicles: Domestic versus Imports

The CARDfile states have more registered domestic vehicles of all classes (84.94 percent) than the nation (81.36 percent). The CARDSTATES/NATION ratio here clearly reflects that the same percentage difference between Column 3 and Column 5 will result in a smaller or larger variation in Column 7 that depends on the base percentage in Column 3. Thus, a difference of 3.45 percentage points in domestic cars yields a 4 percent difference in Column 7 whereas it yields a difference of 17 percent for the imported cars.

The difference of registered vehicles for domestics versus imports holds true for both automobiles and light trucks. In the CARDfile states, 83.07 percent of the automobiles and 91.14 percent of the light trucks are of domestic origin. The corresponding percentages for the nation are 79.52 percent for automobiles and 87.95 percent for light trucks, again yielding ratios that are four percent higher for automobiles, but under-representation of imported trucks in the CARDfile states by 26 percent. This large disparity is caused by two states, Michigan and Indiana, where domestic vehicles are highly favored (Table 5, Appendix C). In the coastal states of Maryland and Washington, the imports are over-represented.

Table 6. 20 Top Make/Models

The list of the 20 top make/models are those which are most numerous in the U.S. as a whole. They may not be the 20 most numerous in the CARDfile states. The differences, however, would be minor.

The 20 most popular make/models in the U.S. account for 25.89 percent of CARDfile states' registered vehicles and 24.89 percent of the nation's registered vehicles. As is clearly pointed out by the CARDSTATES/NATION ratio, 16 of the top 20 vehicles are over-represented (have ratios greater than 1.000). The over-representation in the CARDfile states are strong for the Chevrolet C-10 and the Ford F-150, which are both trucks. Also over-represented in the CARDfile states are the Oldsmobile Delta Royal, the Chevrolet Caprice Classic, the Chevrolet Citation, the Ford Thunderbird, and the Chevrolet Monte Carlo. Overall, there is rather good agreement.

Table 7. Annual Vehicle Miles of Travel by Road Functional Class (Millions of Miles)

The vehicle miles traveled on rural and urban roads in the CARDfile states matches closely those of the nation as shown by the ratios of total rural and total urban in Column 7. However, within the major urban and rural classes there are noteworthy differences.

In the rural class, the CARDSTATES/NATION ratio indicates that within the CARDfile states, there are fewer vehicle miles traveled on local roads, interstate roads, and minor arteries than the nation. On the other hand, still in the rural class, more vehicles miles are traveled on principal arteries and major collectors in the CARDfile states than the nation. The biggest discrepancy is with local roads which have 3.85 percent of the vehicle miles in the CARDfile states compared with 5.01 percent nationally.

In the urban class, the CARDSTATES/NATION ratio shows the differences are not as large as those found in the rural class, but the CARDfile states again have fewer vehicle miles of travel on minor arteries than the nation.

Table 7 (Appendix C) indicates which states are responsible for these trends. For instance, both Maryland and Michigan have very low rural interstate travel (ratios of 0.75 and 0.72) when compared to the nation. The low rural and urban local travel is caused by Maryland, Michigan, and especially Washington. However, the aggregated comparison of urban local travel is balanced by the very high travel in Texas (ratio of 1.65).

3.1.3 ROADWAYS

Table 8. Road Milage by Functional Class

The CARDfile states have a smaller percentage (77.11 percent) of rural roads than the nation (82.69 percent). Conversely, the CARDfile states have a greater percentage (22.89 percent) of urban roads than the nation (17.31 percent). The overall ratios are 0.93 and 1.32 for rural and urban. Within the rural class, the CARDSTATES/NATION ratio shows the CARDfile states to have less local roads and minor arteries and to a lesser extent less interstate roads than the nation.

Within the urban class, the CARDSTATES/NATION ratio (1.322) shows the CARDfile states to have a greater percentage of all functional classes than the nation. The over-representation of urban roads for the CARDfile states is particularly strong for local roads, principal arteries, other freeways, and collectors. The total rural and urban road milage for the CARDfile states are 18.27 percent of the national milage.

Again, observation of the individual state data in Table 8 (Appendix C) indicates the reasons for some of the aggregated trends. For instance, Maryland has significantly less local rural roads (ratio of 0.72) and Michigan and Texas have significantly less rural minor arteries (0.51 and 0.66, respectively). All states have more local urban roads than the nation, lead by Maryland with a ratio of 2.18. Maryland also has a much higher ratio of urban principal arteries than the nation (2.41). Urban collector road milage is also much higher in Maryland and Michigan (1.95 and 1.75).

Table 9. Road Milage by Surface Type Federal Aid Only¹

The CARDfile states contain 18.72 percent of the nation's roads that are federally-aided. Proportionate to the nation, the CARDfile states have more urban milage and less rural milage as we also observed in Table 8. Within the rural class, the CARDfile states have considerably more intermediate type and low type milage than the nation with CARDSTATES/NATION ratios of 1.36 and 1.62, respectively. The CARDfile ratios of 0.78 and 0.26, respectively. The CARDfile states have less high-flexible type and unpaved roads than the nation with CARDSTATES/NATION ratios of 0.78 and 0.26, respectively. Within the urban class of roads the CARDfile states have considerably more milage of the high-rigid and intermediate types of roads than the nation--ratios of CARDSTATES/NATION of 1.45 and 1.61, respectively.

¹This data was abstracted from "Highway Statistics, 1984" which does not break down all of the nation's roads by surface type. That reference gives the total of road milage as 3,891,781 miles. Pages 142-146 of that publication gives the break down by surface type for 1,202,991 miles of road.

9.2 FATAL ACCIDENTS POPULATION SUBSETS

3.2.1 PEOPLE

Table 10. Motor Vehicle Fatalities by Sex by Age

The summary at the bottom of the table shows that 71.58 percent of the motor vehicle fatalities in the CARDfile states are incurred by males and 28.42 percent by females. These numbers are within 0.30 percentage points of the national figures.

For both sexes, the over 70 age bracket incurs a smaller percentage of fatalities than the same age bracket for the nation as a whole. This, in part, can be attributed to the under-representation of the population group (Tables 1 and 2). The CARDSTATES/NATION ratio show other age brackets with greater discrepancy than the over 70 group, but the discrepancy is not consistent over sexes. For example, the males in the CARDfile states in the 35-39 age group have a smaller percentage of fatalities than the same national age bracket and the females in the CARDfile states in the 25-29 and 50-54 age brackets have a smaller percentage of fatalities than the same age bracket in the nation.

In the case of the 35-39 year old males, Maryland (Table 10, Appendix C) has many less fatalities than the nation as a whole (ratio of 0.79). This result is surprising as Maryland has a larger male population (ratio of 1.11) in this age bracket (Table 2, Appendix C). In the case of the females in the 25-29 and 50-54 age brackets, the same trend is evident. They are over-represented in the general population, but under-represented in the fatalities. Obviously, some other factors are in effect here, such as vehicle miles traveled by sex and age and the inherent noisiness of the rather small counts in these subcategories.

Table 11. Driver Motor Vehicle Fatalities by Age by Sex

The summary at the bottom of the table shows that male drivers in the CARDfile states incur 78.69 percent of the driver fatalities and the female drivers incur 21.31 percent of the driver fatalities. These numbers are within 0.18 percentage points of the national figures.

Contrary to expectations set up in the previous table, the over 70 age group of driver fatalities in the CARDfile states is not under-represented when compared to the nation.

Many of the age brackets in the CARDfile states, particularly for the female drivers, show under and over-representation. This is pointed out by the large number of ratios in the CARDSTATES/NATION ratio in Column 7 which deviate more than \pm five percent. This is probably, in part, due to the small populations we have in FARS compared to the total populations.

Table 12. Fatalities Per Million Licensed Drivers Per Year by Sex

The CARDfile states have seven less fatalities per million drivers than the nation (out of 285 fatalities per million). Though both sexes have lower rates than their counterparts in the nation, the absolute difference is greater for the males, but the ratios are the same.

3.2.2 VEHICLES

Table 13. 20 Top Make/Models Involved in Fatal Accidents

Differences showed-up when the vehicles involved in fatal accidents were analyzed. The CARDfile states have more Chevrolet pickups and Buick Regals (over-represented by more than 10 percent in the CARDSTATES/NATION ratio) in this listing. On the other side, the CARDfile states are strongly under-represented with Cadillac Deville, Ford Pinto, and Pontiac Firebird. Many of these same vehicles are on the table of 20 top registrations (Table 6). However, other considerations, such as VMT by vehicle type, and what vehicles are more likely to be driven by certain ages and sexes, also affect the ranking of the fatality ratios.

3.2.3 ROADWAYS

Table 14. Fatal Accident by Road Functional Class

The CARDfile states account for 21.44 percent of the nation's fatal accidents and 21.43 percent of the fatalities (Table 10). The CARDfile states incur more of their fatal accidents on the interstate and fewer on other urban freeways. However, since these two classes of roads may be functionally equal, it may be a difference that is of no consequence.

The CARDfile states have fewer fatal accidents on local roads, minor rural collectors and major urban collectors. These results reflect, to some degree, both the milage by functional class (Table 8) and the VMT by functional class (Table 7).

Table 15. Fatal Accidents by Surface Type

More of the CARDfile states' fatal accidents occur on concrete (14.11 percent) than the nation as a whole (10.25 percent), (ratio of 1.38). Fewer of the CARDfile states' fatal accidents occur on blacktop (79.82 percent) than the nation as a whole (83.41 percent).

3.2.4 ACCIDENTS

Table 16. Fatal Accidents by Manner of Collision

Over 60 percent of the fatal accidents classified as "not applicable" reduces the impact of this table. The only CARDSTATES/NATION ratio of note is for same direction sideswipes (1.148) which indicates that the CARDfile states may have more of these type of accidents that the nation.

4.0 CONCLUSIONS AND RECOMMENDATIONS

We have concluded that, at the aggregate level, the CARDfile states are a good representation of the nation as a whole when considering the characteristics of the populations, vehicles, roads, and fatal accidents. Some exceptions to this agreement were found with the older population, road characteristics, and domestic versus imported vehicles. The importance of these exceptions is difficult to evaluate outside the context of how the data is utilized. In general, as most of the CARDfile comparisons are made within CARDfile, the effect of these exceptions would be minimized.

We also found that any individual state could seriously impact the aggregate agreement. This result is important when NHTSA considers additional states or removing existing states. In fact, before such action is contemplated, we would recommend that a study be performed to evaluate its impact on the representativeness of CARDfile. It is even possible that one or more of the CARDfile states may be more representative than the existing six states. After the Phase II effort that compares accident experiences is completed, NHTSA may want to collect less data and should consider such a study to see if a better representation is possible with fewer states.

APPENDIX A

TABLES OF AGGREGATED CARDFILE STATES VS. NATION

TABLE 1. PEOPLE BY AGE (MILLIONS)

(COL 1)	(2)	(3)	(4)	(5)	(6)	(7)
AGE	CARDFILE STATES		NATION		Z OF NATIONAL CLASS	RATIO OF STATE Z TO NATIONAL Z
	PEOPLE	Z OF STATES PEOPLE	PEOPLE	Z OF NATION'S PEOPLE		
-13	10.62	20.76	47.98	20.32	22.13	1.022
14-17	3.25	6.35	14.71	6.23	22.09	1.020
18-24	6.33	12.37	29.12	12.33	21.74	1.004
25-34	8.99	17.58	40.91	17.32	21.98	1.015
35-44	6.60	12.90	30.65	12.98	21.53	0.994
45-64	9.59	18.75	44.75	18.95	21.43	0.989
65+	5.77	11.28	28.04	11.87	20.58	0.950
TOTAL	51.15	100.00	236.16	100.00	21.66	1.000

SOURCE: STATISTICAL ABSTRACT OF U.S P.27

TABLE 2. PEOPLE BY SEX BY AGE (MILLIONS)

(COL 1)	(2)	(3)	(4)	(5)	(6)	(7)
MALE						
AGE	CARDFILE STATES		NATION		% OF NATIONAL CLASS	RATIO OF STATE % TO NATIONAL %
	PEOPLE	% OF STATES' PEOPLE	PEOPLE	% OF NATION'S PEOPLE		
-19	8.17	16.61	36.97	16.32	22.10	1.018
20-24	2.34	4.76	10.66	4.71	21.95	1.011
25-29	2.13	4.33	9.71	4.29	21.94	1.010
30-34	1.88	3.82	8.68	3.83	21.66	0.998
35-39	1.49	3.03	6.86	3.03	21.72	1.000
40-44	1.23	2.50	5.71	2.52	21.54	0.992
45-49	1.17	2.38	5.38	2.37	21.75	1.002
50-54	1.24	2.52	5.62	2.48	22.06	1.016
55-59	1.20	2.44	5.48	2.42	21.90	1.009
60-64	1.00	2.03	4.67	2.06	21.41	0.986
65-69	0.81	1.65	3.90	1.72	20.77	0.957
70+	1.29	2.62	6.40	2.82	20.16	0.928
TOTAL	23.95	48.70	110.04	48.58	21.76	1.002

FEMALE						
AGE	CARDFILE STATES		NATION		% OF NATIONAL CLASS	RATIO OF STATE % TO NATIONAL %
	PEOPLE	% OF STATES' PEOPLE	PEOPLE	% OF NATION'S PEOPLE		
-19	7.84	15.94	35.49	15.67	22.09	1.018
20-24	2.34	4.76	10.66	4.71	21.95	1.011
25-29	2.15	4.37	9.82	4.33	21.89	1.008
30-34	1.92	3.90	8.88	3.92	21.62	0.996
35-39	1.53	3.11	7.10	3.13	21.55	0.993
40-44	1.28	2.60	5.96	2.63	21.48	0.989
45-49	1.24	2.52	5.70	2.52	21.75	1.002
50-54	1.33	2.70	6.09	2.69	21.84	1.006
55-59	1.33	2.70	6.13	2.71	21.70	0.999
60-64	1.15	2.34	5.42	2.39	21.22	0.977
65-69	1.01	2.05	4.88	2.15	20.70	0.953
70+	2.11	4.29	10.36	4.57	20.37	0.938
TOTAL	25.23	51.30	116.49	51.42	21.66	0.998

SEX SUMMARY						
	CARDFILE STATES		NATION			
MALE	23.95	48.70	110.04	48.58	21.76	1.002
FEMALE	25.23	51.30	116.49	51.42	21.66	0.998
TOTAL	49.18	100.00	226.53	100.00	21.71	

SOURCE: 1980 GENERAL POPULATION CHARACTERISTICS
U.S. DEPT. OF COMMERCE, CENSUS BUREAU

TABLE 3. LICENCED DRIVER'S BY AGE (MILLIONS)

(COL 1)	(2)	(3)	(4)	(5)	(6)	(7)

	CARDFILE STATES		NATION			
AGE	DRIVERS	% OF STATES' DRIVERS	DRIVERS	% OF NATION'S DRIVERS	% OF NATIONAL CLASS	RATIO OF STATE % TO NATIONAL %
-19	2.4	7.02	10.37	6.67	23.14	1.052
20-24	4.35	12.73	19.17	12.34	22.69	1.032
25-29	4.57	13.37	20.30	13.06	22.51	1.024
30-34	4.16	12.17	18.77	12.08	22.16	1.008
35-39	3.54	10.36	16.45	10.59	21.52	0.979
40-44	2.78	8.14	12.91	8.31	21.53	0.979
45-49	2.29	6.70	10.52	6.77	21.77	0.990
50-54	2.19	6.41	9.81	6.31	22.32	1.015
55-59	2.24	6.55	9.87	6.35	22.69	1.032
60-64	1.90	5.56	9.07	5.84	20.95	0.953
65-69	1.51	4.42	7.27	4.68	20.77	0.944
70+	2.24	6.55	10.88	7.00	20.59	0.936
TOTAL	34.17	100.00	155.39	100.00	21.99	1.000

SEX SUMMARY

	DRIVERS	% OF STATES' DRIVERS	DRIVERS	% OF NATION'S DRIVERS	% OF NATIONAL CLASS	RATIO OF STATE % TO NATIONAL %
MALE	17.90	52.43	81.01	52.13	22.10	1.006
FEMALE	16.24	47.57	74.38	47.87	21.83	0.994
TOTAL	34.14	100.00	155.39	100.00	21.97	1.000

SOURCE: HIGHWAY STATISTICS 1984 PG.33
U.S DEPT. TRANSPORTATION FHWA

TABLE 3B. RATIO OF LICENCED DRIVERS TO PEOPLE (PEOPLE IN THOUSANDS)

	CARDFILE STATES		NATION		DRIVERS PER THOUSAND	% OF NATIONAL CLASS	RATIO OF DRIVERS PER THOUSAND STATE TO NATION
	RESIDENTS	% OF STATES RESIDENTS	RESIDENTS	% OF NATION'S RESIDENTS			
ALL RESIDENTS	51161.00	100.00	667.03	1236158.00	100.00	21.66	1.014
RESIDENTS OVER AGE 15	39710.00	77.62	639.38	184424.00	78.09	21.53	1.019

SOURCE: HIGHWAY STATISTICS 1984 P.31 AND FARS 1984
 HE 5623.AI USX 1984

TABLE 4. MOTOR-VEHICLE REGISTRATIONS BY CLASS-MILLIONS

(COL 1)	(2)	(3)	(4)	(5)	(6)	(7)
CARDFILE STATES			NATION			
	VEHICLES	% OF ALL VEHICLES: IN STATE	VEHICLES	% OF ALL VEHICLES: IN NATION	% OF NATIONAL CLASS	RATIO STATE/NATION
AUTOMOBILE	27.32	75.47	127.87	76.80	21.37	0.98
BUS	0.14	0.39	0.58	0.35	24.14	1.11
TRUCK	8.74	24.14	38.05	22.85	22.97	1.06
TOTAL	36.20	100.00	166.50	100.00	21.74	1.00

SOURCE: HIGHWAY STATISTICS 1984 PG. 17
 U.S. DEPT. OF TRANSPORTATION FHWA

TABLE 5. REGISTERED VEHICLES: DOMESTIC VS. IMPORTS

(COL 1)	(2)	(3)	(4)	(5)	(6)	(7)
AUTOMOBILES						
CARDFILE STATES			NATION			
	VEHICLES	% OF ALL VEHICLES: IN STATE	VEHICLES	% OF ALL VEHICLES: IN NATION	% OF NATIONAL CLASS	RATIO STATE/NATION
DOMESTIC	20151893.00	83.07	87945030.00	79.52	22.91	1.04
IMPORT	4106064.00	16.93	22652056.00	20.48	18.13	0.83
TOTAL	24257957.00	76.91	110597086.00	78.22	21.93	0.98

LIGHT TRUCKS						
CARDFILE STATES			NATION			
	VEHICLES	% OF ALL VEHICLES: IN STATE	VEHICLES	% OF ALL VEHICLES: IN NATION	% OF NATIONAL CLASS	RATIO STATE/NATION
DOMESTIC	6638191.00	91.14	27088837.00	87.95	24.51	1.04
IMPORT	645434.00	8.86	3709967.00	12.05	17.40	0.74
TOTAL	7283625.00	23.09	30798804.00	21.78	23.65	1.06

AUTOMOBILES AND LIGHT TRUCKS						
CARDFILE STATES			NATION			
	VEHICLES	% OF ALL VEHICLES: IN STATE	VEHICLES	% OF ALL VEHICLES: IN NATION	% OF NATIONAL CLASS	RATIO STATE/NATION
DOMESTIC	26790084.00	84.94	115033867.00	81.36	23.29	1.04
IMPORT	4751498.00	15.06	26362023.00	18.64	18.02	0.81
TOTAL	31541582.00	100.00	141395890.00	100.00	22.31	1.00

SOURCE: HIGHWAY STATISTICS 1984 P6.17

TABLE 6. TOP 20 MAKE MODELS

(COL 1)	(2)	(3)	(4)	(5)	(6)	(7)
MAKE MODEL	CARDFILE STATES		NATION		% OF NATIONAL CLASS	RATIO OF STATE % TO NATIONAL %
	VEHICLES	% OF STATES' VEHICLES	VEHICLES	% OF NATION'S VEHICLES		
CHEVROLET MONTE CARLO	603405.00	1.91	2521803.00	1.78	23.93	1.073
CHEVROLET IMPALA	559572.00	1.77	2505991.00	1.77	22.33	1.001
FORD GRANADA	515775.00	1.63	2238681.00	1.58	23.04	1.033
OLDSMOBILE CUTLASS SUPREME	499034.00	1.58	2210989.00	1.56	22.57	1.012
CHEVROLET C-30	492728.00	1.56	1957919.00	1.38	25.17	1.128
CHEVROLET CAPRICE CLASSIC	444403.00	1.41	1906519.00	1.35	23.31	1.045
CADILLAC DEVILLE	385535.00	1.22	1780737.00	1.26	21.65	0.971
FORD LTD	402524.00	1.28	1752633.00	1.24	22.97	1.030
CHEVROLET CHEVETTE	440644.00	1.40	1740866.00	1.23	25.31	1.135
FORD F-150	472882.00	1.50	1723852.00	1.22	27.43	1.230
CHEVROLET C-10	517133.00	1.64	1654825.00	1.17	31.25	1.401
FORD PINTO	336974.00	1.07	1652295.00	1.17	20.39	0.914
CHEVROLET NOVA	329488.00	1.04	1491525.00	1.05	22.09	0.990
CHEVROLET MALIBU CLASSIC	342719.00	1.09	1463077.00	1.03	23.42	1.050
CHEVROLET CAMARO	336494.00	1.07	1393268.00	0.98	24.15	1.083
FORD THUNDERBIRD	334099.00	1.06	1374313.00	0.97	24.31	1.090
CHEVROLET MALIBU	292491.00	0.93	1290325.00	0.91	22.67	1.016
OLDSMOBILE DELTA ROYAL	325251.00	1.03	1241642.00	0.88	26.19	1.174
BUICK REGAL	252910.00	0.80	1160341.00	0.82	21.80	0.977
CHEVROLET CITATION	282712.00	0.90	1125997.00	0.80	25.11	1.125
TOTAL TOP 20	8166793.00	100.00	34187598.00	100.00	23.89	1.000

SOURCE: POLK NVPP DATA BASE

TABLE 7. ANNUAL VEHICLE MILES OF TRAVEL BY ROAD FUNCTION CLASS (MILLIONS)

(COL 1)	(2)	(3)	(4)	(5)	(6)	(7)
RURAL						
	CARDFILE STATES		NATION		RATIO STATES/NATION	
	VEHICLE MILES	% OF STATES' VEHICLE MILES	VEHICLE MILES	% OF NATION'S VEHICLE MILES	% OF NATIONAL CLASS	RATIO OF STATE % TO NATIONAL %
INTERSTATE	30238.00	7.90	148542.00	8.65	20.36	0.914
PRINCIPAL ARTERY	35323.00	9.23	143786.00	8.38	24.57	1.103
MINOR ARTERY	27238.00	7.12	136885.00	7.97	19.90	0.893
MAJOR COLLECTOR	39695.00	10.38	159908.00	9.31	24.82	1.114
MINOR COLLECTOR	10022.00	2.62	43694.00	2.55	22.94	1.029
LOCAL	14710.00	3.85	86034.00	5.01	17.10	0.767
TOTAL RURAL	157226.00	41.10	718849.00	41.87	21.87	0.982
URBAN						
	CARDFILE STATES		NATION		RATIO STATES/NATION	
	VEHICLE MILES	% OF STATES' VEHICLE MILES	VEHICLE MILES	% OF STATES' VEHICLE MILES	% OF NATIONAL CLASS	RATIO OF STATE % TO NATIONAL %
INTERSTATE	46662.00	12.20	203572.00	11.86	22.92	1.029
OTHER FREEWAY	20035.00	5.24	93645.00	5.45	21.39	0.960
PRINCIPAL ARTERY	64974.00	16.98	270916.00	15.78	23.98	1.076
MINOR ARTERY	40266.00	10.53	195329.00	11.38	20.61	0.925
COLLECTOR	21050.00	5.50	87788.00	5.11	23.98	1.076
LOCAL	32315.00	8.45	146669.00	8.54	22.03	0.989
TOTAL URBAN	225302.00	58.90	997919.00	58.13	22.58	1.013
GRAND TOTAL	382528	100.00	1716768	100.00	22.28	1.000

SOURCE: HIGHWAY STATISTICS 1984, PG 176

TABLE 8. ROAD MILEAGE BY FUNCTIONAL CLASS

(COL 1)	(2)	(3)	(4)	(5)	(6)	(7)
RURAL						
ROAD CLASS	CARDFILE STATES		NATION		% OF NATIONAL CLASS	RATIO OF STATE % TO NATIONAL %
	MILEAGE	% OF STATES' HIGHWAYS	MILEAGE	% OF NATION'S HIGHWAYS		
INTERSTATE	5688.00	0.80	32676.00	0.84	17.41	0.95
PRINCIPAL ARTERY	15645.00	2.20	80597.00	2.07	19.41	1.063
MINOR ARTERY	22438.00	3.16	147007.00	3.78	15.26	0.836
MAJOR COLLECTOR	80886.00	11.38	433003.00	11.13	18.68	1.023
MINOR COLLECTOR	54094.00	7.61	298625.00	7.67	18.11	0.992
LOCAL	369462.00	51.97	2226188.00	57.20	16.60	0.908
TOTAL RURAL	548213.00	77.11	3218096.00	82.69	17.03	0.933
URBAN						
ROAD CLASS	CARDFILE STATES		NATION		% OF NATIONAL CLASS	RATIO OF STATE % TO NATIONAL %
	MILEAGE	% OF STATES' HIGHWAYS	MILEAGE	% OF NATION'S HIGHWAYS		
INTERSTATE	2306.00	0.32	10615.00	0.27	21.72	1.189
OTHER FREEWAY	1672.00	0.24	7116.00	0.18	23.50	1.286
PRINCIPAL ARTERY	11613.00	1.63	48584.00	1.25	23.90	1.308
MINOR ARTERY	14609.00	2.05	70710.00	1.82	20.66	1.131
COLLECTOR	16953.00	2.38	74059.00	1.90	22.89	1.253
LOCAL	115570.00	16.26	462601.00	11.89	24.98	1.368
TOTAL URBAN	162723.00	22.89	673685.00	17.31	24.15	1.322
TOTAL RURAL + URBAN						
TOTAL	710936	100.00	3991781	100.00	18.27	1.000

SOURCE: 1984 HIGHWAY STATISTICS PG. 121

TABLE 9. ROAD MILEAGE BY SURFACE TYPE (FEDERAL AID ONLY)

RURAL						
ROAD CLASS	CARDFILE STATES		NATION		% OF NATIONAL CLASS	RATIO OF STATE % TO NATIONAL %
	MILEAGE	% OF STATES' HIGHWAYS	MILEAGE	% OF NATION'S HIGHWAYS		
HIGH-FLEXIBLE	60804.00	26.99	417258.00	34.68	14.57	0.78
HIGH-RIGID	7661.00	3.40	43145.00	3.59	17.76	0.93
INTERMEDIATE	48430.00	21.50	189743.00	15.77	23.52	1.36
LOW	52990.00	23.52	174470.00	14.50	30.37	1.62
UNPAVED	8215.00	3.65	167291.00	13.91	4.91	0.26
TOTAL	178100.00	79.07	991907.00	82.45	17.95	0.96

URBAN						
ROAD CLASS	CARDFILE STATES		NATION		% OF NATIONAL CLASS	RATIO OF STATE % TO NATIONAL %
	MILEAGE	% OF STATES' HIGHWAYS	MILEAGE	% OF NATION'S HIGHWAYS		
HIGH-FLEXIBLE	26429.00	11.73	135095.00	11.23	19.56	1.04
HIGH-RIGID	7465.00	3.31	27517.00	2.29	27.13	1.45
INTERMEDIATE	10532.00	4.68	34961.00	2.91	30.12	1.61
LOW	2338.00	1.04	11612.00	0.96	20.13	1.07
UNPAVED	392.00	0.17	1899.00	0.16	20.64	1.10
TOTAL	47156.00	20.93	211084.00	17.55	22.34	1.19

TOTAL RURAL+URBAN						
ROAD CLASS	CARDFILE STATES		NATION		% OF NATIONAL CLASS	RATIO OF STATE % TO NATIONAL %
	MILEAGE	% OF STATES' HIGHWAYS	MILEAGE	% OF NATION'S HIGHWAYS		
HIGH-FLEXIBLE	87233.00	38.73	552353.00	45.91	15.79	0.84
HIGH-RIGID	15126.00	6.71	70662.00	5.87	21.41	1.14
INTERMEDIATE	58962.00	26.18	224704.00	18.68	26.24	1.40
LOW	55328.00	24.56	186082.00	15.47	29.73	1.59
UNPAVED	8607.00	3.82	169190.00	14.06	5.09	0.27
TOTAL	225256.00	100.00	1202991.00	100.00	18.72	1.00

SOURCE: 1984 HIGHWAY STATISTICS PG. 142-145

TABLE 10. MOTOR VEHICLE FATALITIES BY SEX BY AGE (ALL)

(COL 1)	(2)	(3)	(4)	(5)	(6)	(7)
MALE						
	CARDFILE STATES		NATION			
AGE	FATALITIES	% OF STATES	FATALITIES	% OF NATION'S	% OF NATIONAL CLASS	RATIO OF STATE % TO NATIONAL %
-19	1403.00	14.79	6431.00	14.53	21.82	1.018
20-24	1363.00	14.37	6299.00	14.23	21.64	1.010
25-29	944.00	9.95	4317.00	9.76	21.87	1.020
30-34	688.00	7.25	3041.00	6.87	22.62	1.056
35-39	406.00	4.28	2088.00	4.72	19.44	0.907
40-44	350.00	3.69	1549.00	3.50	22.60	1.054
45-49	252.00	2.66	1193.00	2.70	21.12	0.986
50-54	241.00	2.54	1122.00	2.54	21.48	1.002
55-59	225.00	2.37	1061.00	2.40	21.21	0.990
60-64	226.00	2.38	1046.00	2.36	21.61	1.008
65-69	201.00	2.12	918.00	2.07	21.90	1.022
70+	489.00	5.16	2476.00	5.60	19.75	0.922
TOTAL	6788.00	71.58	31541.00	71.28	21.52	1.004

FEMALE						
	CARDFILE STATES		NATION			
AGE	FATALITIES	% OF STATES	FATALITIES	% OF NATION'S	% OF NATIONAL CLASS	RATIO OF STATE % TO NATIONAL %
-19	644.00	6.79	2942.00	6.65	21.89	1.021
20-24	390.00	4.11	1772.00	4.00	22.01	1.027
25-29	243.00	2.56	1193.00	2.70	20.37	0.950
30-34	203.00	2.14	956.00	2.16	21.23	0.991
35-39	179.00	1.89	783.00	1.77	22.86	1.067
40-44	116.00	1.22	610.00	1.38	19.02	0.887
45-49	103.00	1.09	500.00	1.13	20.60	0.961
50-54	98.00	1.03	496.00	1.12	19.76	0.922
55-59	118.00	1.24	537.00	1.21	21.97	1.025
60-64	121.00	1.28	568.00	1.28	21.30	0.994
65-69	122.00	1.29	535.00	1.21	22.80	1.064
70+	358.00	3.78	1817.00	4.11	19.70	0.919
TOTAL	2695.00	28.42	12709.00	28.72	21.21	0.989

SEX SUMMARY						
	CARDFILE STATES		NATION			
MALE	6788	71.58	31541	71.28	21.52	1.004
FEMALE	2695	28.42	12709	28.72	21.21	0.989
TOTAL	9483	100.00	44250	100.00	21.43	

SOURCE: FARS

TABLE 11. MOTOR VEHICLE FATALITIES BY SEX BY AGE (DRIVERS ONLY)

(COL 1)	(2)	(3)	(4)	(5)	(6)	(7)
MALE						
AGE	CARDFILE STATES		NATION		% OF NATIONAL CLASS	RATIO OF STATE % TO NATIONAL %
	FATALITIES	% OF STATES' FATALITIES	FATALITIES	% OF NATION'S FATALITIES		
-19	611.00	10.99	2826.00	11.04	21.62	0.995
20-24	965.00	17.35	4400.00	17.20	21.93	1.009
25-29	680.00	12.23	3159.00	12.35	21.53	0.990
30-34	505.00	9.08	2239.00	8.75	22.55	1.038
35-39	304.00	5.47	1550.00	6.06	19.61	0.902
40-44	245.00	4.41	1084.00	4.24	22.60	1.040
45-49	179.00	3.22	817.00	3.19	21.91	1.008
50-54	155.00	2.79	755.00	2.95	20.53	0.945
55-59	149.00	2.68	693.00	2.71	21.50	0.989
60-64	150.00	2.70	655.00	2.56	22.90	1.054
65-69	144.00	2.59	598.00	2.34	24.08	1.108
70+	289.00	5.20	1312.00	5.13	22.03	1.014
TOTAL	4376.00	78.69	20088.00	78.51	21.78	1.002

FEMALE						
AGE	CARDFILE STATES		NATION		% OF NATIONAL CLASS	RATIO OF STATE % TO NATIONAL %
	FATALITIES	% OF STATES' FATALITIES	FATALITIES	% OF NATION'S FATALITIES		
-19	145.00	2.61	741.00	2.90	19.57	0.900
20-24	219.00	3.94	955.00	3.73	22.93	1.055
25-29	134.00	2.41	665.00	2.60	20.15	0.927
30-34	109.00	1.96	549.00	2.15	19.85	0.914
35-39	118.00	2.12	475.00	1.86	24.84	1.143
40-44	69.00	1.24	357.00	1.39	19.33	0.889
45-49	54.00	0.97	274.00	1.07	19.71	0.907
50-54	50.00	0.90	234.00	0.91	21.37	0.983
55-59	60.00	1.08	260.00	1.02	23.08	1.062
60-64	56.00	1.01	242.00	0.95	23.14	1.065
65-69	59.00	1.06	222.00	0.87	26.58	1.223
70+	112.00	2.01	526.00	2.06	21.29	0.980
TOTAL	1185.00	21.31	5500.00	21.49	21.55	0.991

SEX SUMMARY						
	CARDFILE STATES		NATION			
MALE	4376	78.69	20088	78.51	21.78	1.002
FEMALE	1185	21.31	5500	21.49	21.55	0.991
TOTAL	5561	100.00	25588	100.00	21.73	

SOURCE: FARS

TABLE 12. FATALITIES PER MILLION LICENCED DRIVERS PER YEAR BY SEX

CARDFILE STATES		NATION		FATALITIES PER MILLION DRIVERS	
MILLIONS OF DRIVERS	NUMBER OF FATALITIES	MILLIONS OF DRIVERS	NUMBER OF FATALITIES	STATES	NATION
MALE	17.90	6788.00	31541.00	379.22	389.35
FEMALE	16.24	2695.00	12709.00	165.95	170.87
TOTAL	34.14	9483.00	44250.00	277.77	284.77

SOURCE: FARS

TABLE 13. TOP 20 VEHICLES INVOLVED IN FATAL ACCIDENTS

(COL 1)	(2)	(3)	(4)	(5)	(6)	(7)
MAKE MODEL	CARDFILE STATES		NATION	RATIO STATES/NATION		
	VEHICLES	% OF STATES' TOP-20 VEHICLES	VEHICLES	% OF NATION'S TOP-20 VEHICLES	% OF NATIONAL CLASS	RATIO OF STATE % TO NATIONAL %
CHEVROLET PICK-UP	696.00	15.60	2838.00	14.08	24.52	1.108
FORD PICK-UP	568.00	12.73	2546.00	12.63	22.31	1.008
CHEVROLET CAPRICE	357.00	8.00	1527.00	7.58	23.38	1.056
OLDSMOBILE CUTLASS	307.00	6.88	1368.00	6.79	22.44	1.014
FORD LTD	242.00	5.42	1217.00	6.04	19.88	0.898
CHEVROLET MALIBU	220.00	4.93	997.00	4.95	22.07	0.997
CHEVROLET CAMARO	233.00	5.22	985.00	4.89	23.65	1.069
FORD MUSTANG	186.00	4.17	909.00	4.51	20.46	0.924
BUICK REGAL	211.00	4.73	852.00	4.23	24.77	1.119
CHEVROLET MONTE CARLO	174.00	3.90	838.00	4.16	20.76	0.938
CHEVROLET NOVA	146.00	3.27	714.00	3.54	20.45	0.924
GMC PICK-UP	161.00	3.61	680.00	3.37	23.68	1.070
CHEVROLET CHEVETTE	148.00	3.32	673.00	3.34	21.99	0.993
PONTIAC FIREBIRD	114.00	2.56	608.00	3.02	18.75	0.847
FORD VAN	132.00	2.96	603.00	2.99	21.89	0.989
FORD PINTO	107.00	2.40	595.00	2.95	17.98	0.812
CADILLAC DEVILLE	98.00	2.20	573.00	2.84	17.10	0.773
PONTIAC GRAND PRIX	124.00	2.78	547.00	2.71	22.67	1.024
CHEVROLET VAN	108.00	2.42	547.00	2.71	19.74	0.892
PONTIAC BONNEVILLE	129.00	2.89	537.00	2.66	24.02	1.085
TOTAL TOP 20	4461.00	100.00	20154.00	100.00	22.13	1.000

SOURCE: FARS

TABLE 14. FATAL ACCIDENTS BY ROAD FUNCTION CLASS
(COL 1) (2) (3) (4) (5) (6) (7)

FUNCTION CLASS	CARDFILE STATES		NATION		% OF NATIONAL CLASS	RATIO OF STATE % TO NATIONAL %
	ACCIDENTS	% OF STATES' ACCIDENTS	ACCIDENTS	% OF NATION'S ACCIDENTS		
INTERSTATE	893.00	10.51	3750.00	9.46	23.81	1.111
OTHER URBAN FREEMAY	277.00	3.26	1516.00	3.82	18.27	0.852
PRINCIPAL ARTERY	2192.00	25.80	9982.00	25.19	21.96	1.024
MINOR ARTERY	1805.00	21.25	8095.00	20.43	22.30	1.040
URBAN COLLECTOR	256.00	3.01	1720.00	4.34	14.88	0.694
MAJOR RURAL COLLECTOR	1364.00	16.06	6181.00	15.60	22.07	1.029
MINOR RURAL COLLECTOR	275.00	3.24	1351.00	3.41	20.36	0.950
LOCAL ROAD	1380.00	16.24	6862.00	17.31	20.11	0.938
UNKNOWN	53.00	0.62	174.00	0.44	30.46	1.421
TOTAL	8495.00	100.00	39631.00	100.00	21.44	1.000

SOURCE: FARS

TABLE 15. FATAL ACCIDENTS BY SURFACE TYPE

(COL 1)	(2)	(3)	(4)	(5)	(6)	(7)
MALE						
SURFACE TYPE	CARDFILE STATES		NATION		% OF NATIONAL CLASS	RATIO OF STATE % TO NATIONAL %
	ACCIDENTS	% OF STATES' ACCIDENTS	ACCIDENTS	% OF NATION'S ACCIDENTS		
CONCRETE	1199.00	14.11	4064.00	10.25	29.50	1.376
BLACKTOP	6781.00	79.82	33057.00	83.41	20.51	0.957
SLAG/GRAVEL/STONE	126.00	1.48	657.00	1.66	19.18	0.895
OTHER	389.00	4.58	1853.00	4.68	20.99	0.979
TOTAL	8495.00	100.00	39631.00	100.00	21.44	1.000

SOURCE: FARS

TABLE 16. FATAL ACCIDENTS BY MANNER OF COLLISION

(COL 1)	(2)	(3)	(4)	(5)	(6)	(7)
MANNER OF COLLISION	CARDFILE STATES		NATION		% OF NATIONAL CLASS	RATIO OF STATE % TO NATIONAL %
	ACCIDENTS	% OF STATES' ACCIDENTS	ACCIDENTS	% OF NATION'S ACCIDENTS		
NOT APPLICABLE	5209.00	61.32	24579.00	62.02	21.19	0.989
REAR END	418.00	4.92	1838.00	4.64	22.74	1.061
HEAD ON	1293.00	15.22	5858.00	14.78	22.07	1.030
REAR TO REAR	1	0.01	4	0.01	25.00	1.166
ANGLE	1403	16.52	6594	16.64	21.28	0.993
SIDE SWIPE S.D	94	1.11	382	0.96	24.61	1.148
SIDE SWIPE D.D	75	0.88	348	0.88	21.55	1.005
UNKNOWN	2.00	0.02	28.00	0.07	7.14	0.333
TOTAL	8495.00	100.00	39631.00	100.00	21.44	1.000

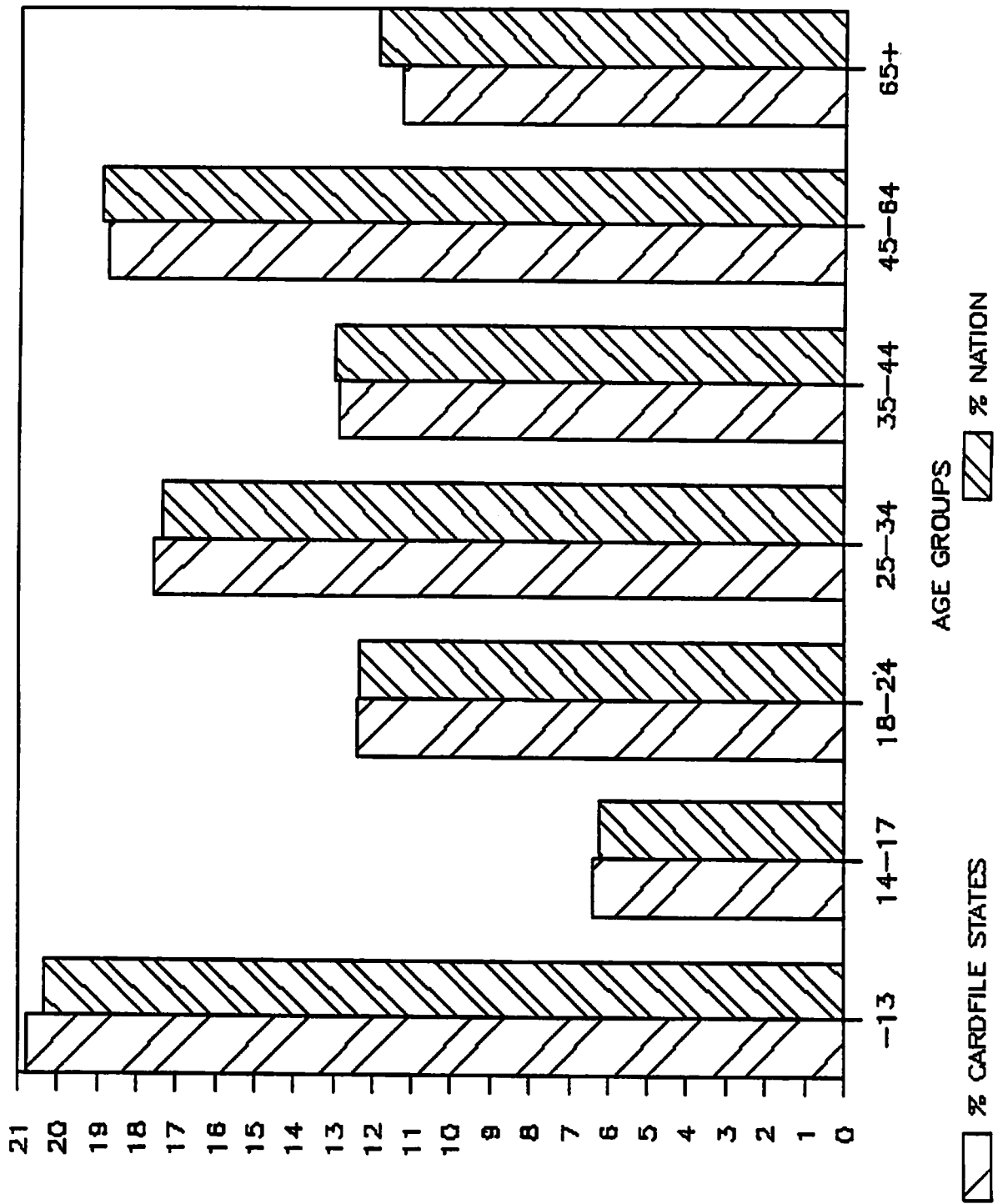
SOURCE: FARS

APPENDIX B

**GRAPHS OF CARDFILE STATES VS. NATION -
PERCENTAGE CHARACTERISTICS**

COMPARISON OF PEOPLE BY AGE

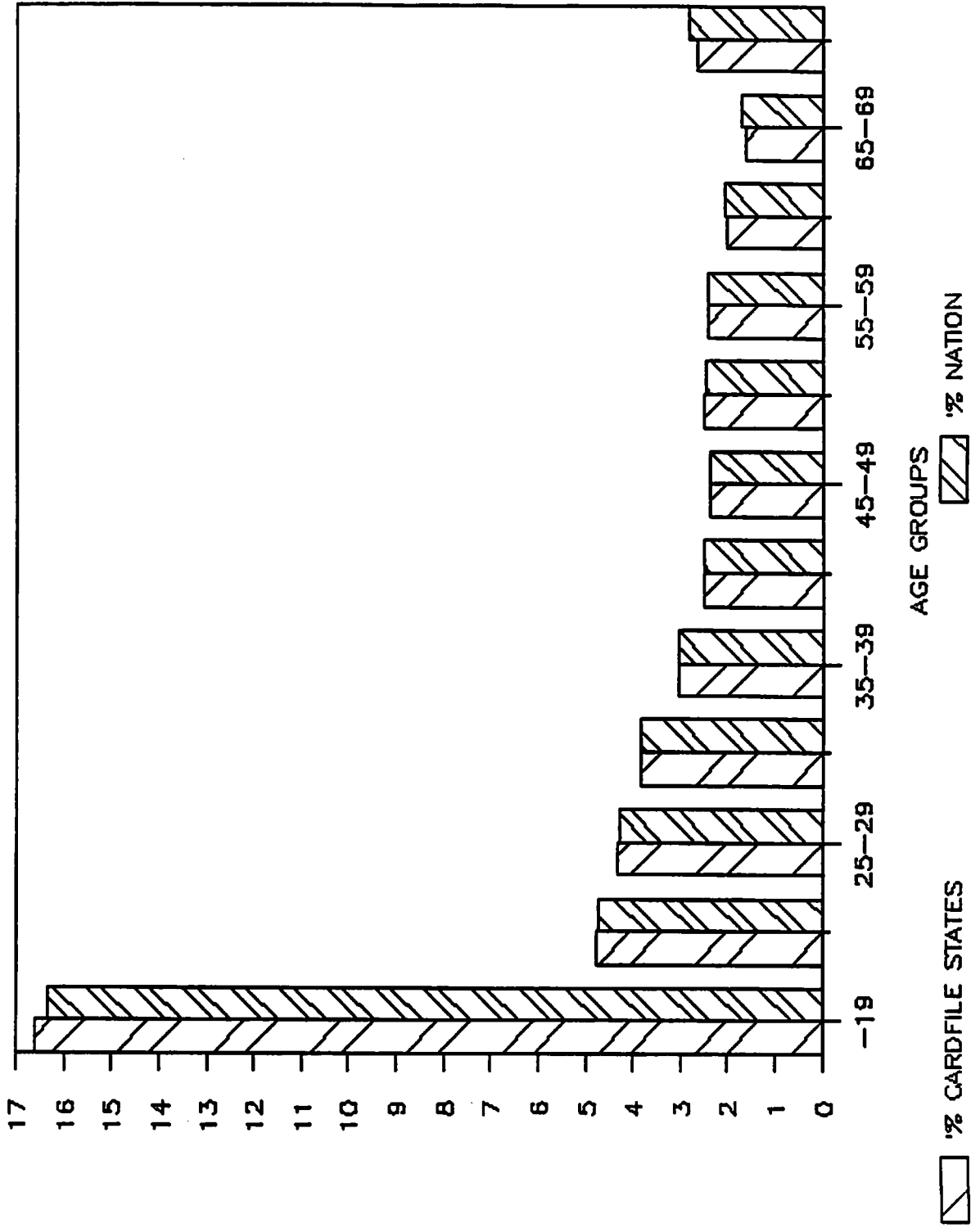
FIGURE 1



PERCENTAGE OF POPULATION

COMPARISON OF MALE POPULATION BY AGE

FIGURE 2A

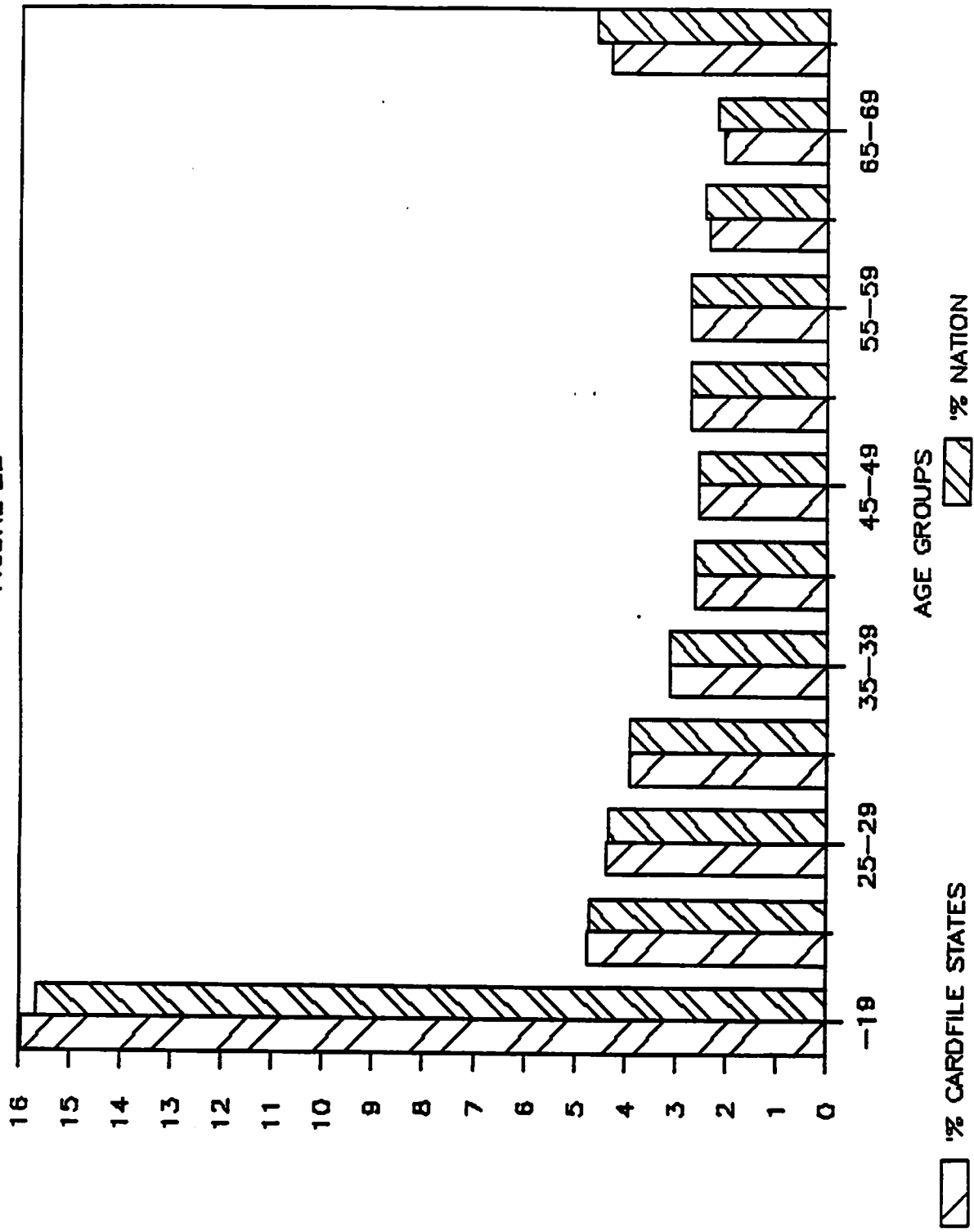


PERCENTAGE OF POPULATION

SOURCE: 1980 GENERAL POPULATION CHARACTERISTICS, U.S. DEPARTMENT OF COMMERCE, CENSUS BUREAU.

COMPARISON OF FEMALE POPULATION BY AGE

FIGURE 2B

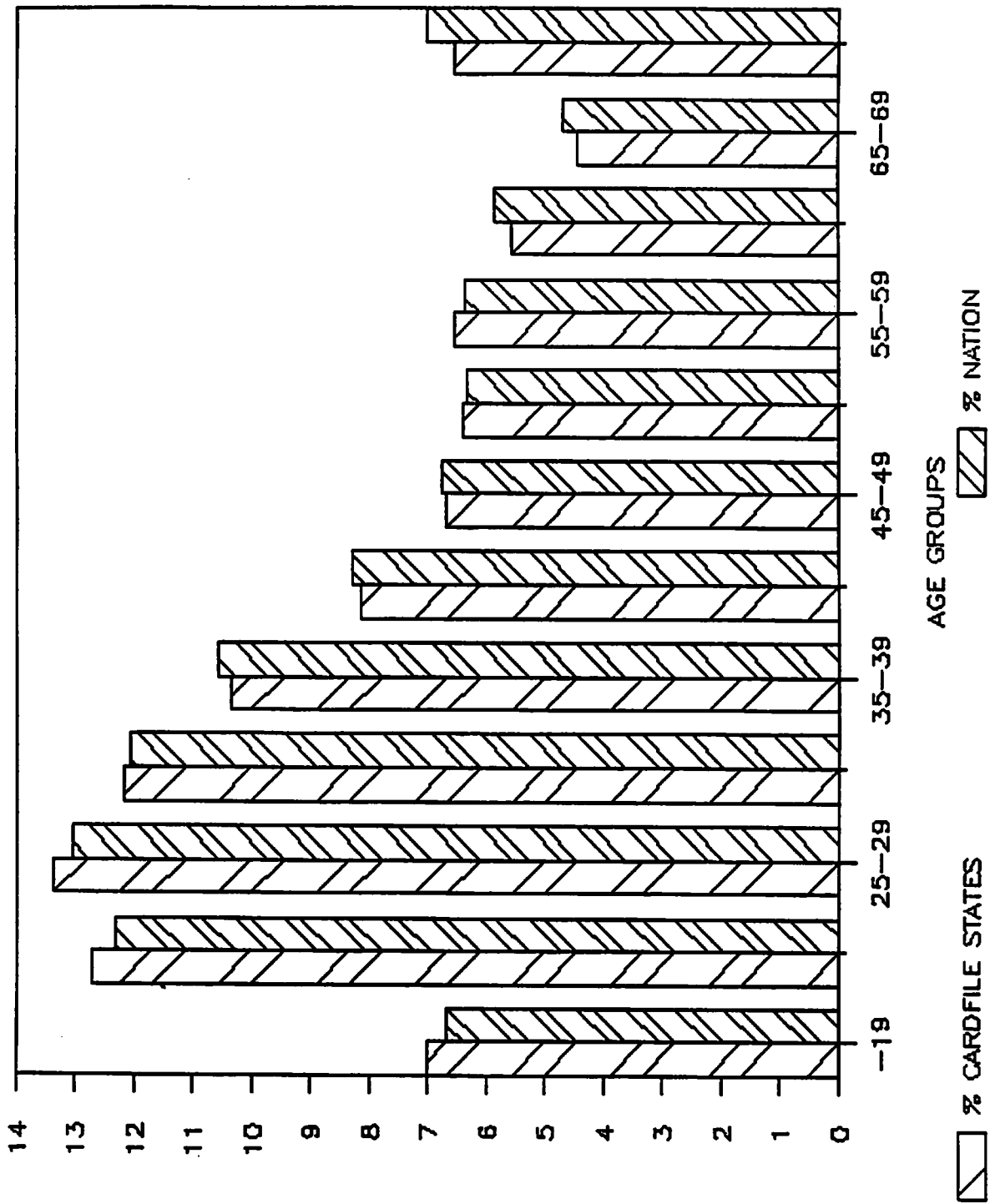


PERCENTAGE OF POPULATION

SOURCE: 1980 GENERAL POPULATION CHARACTERISTICS. U.S. DEPT. OF COMMERCE, CENSUS BUREAU

COMPARISON OF LICENCED DRIVERS BY AGE

FIGURE 3A

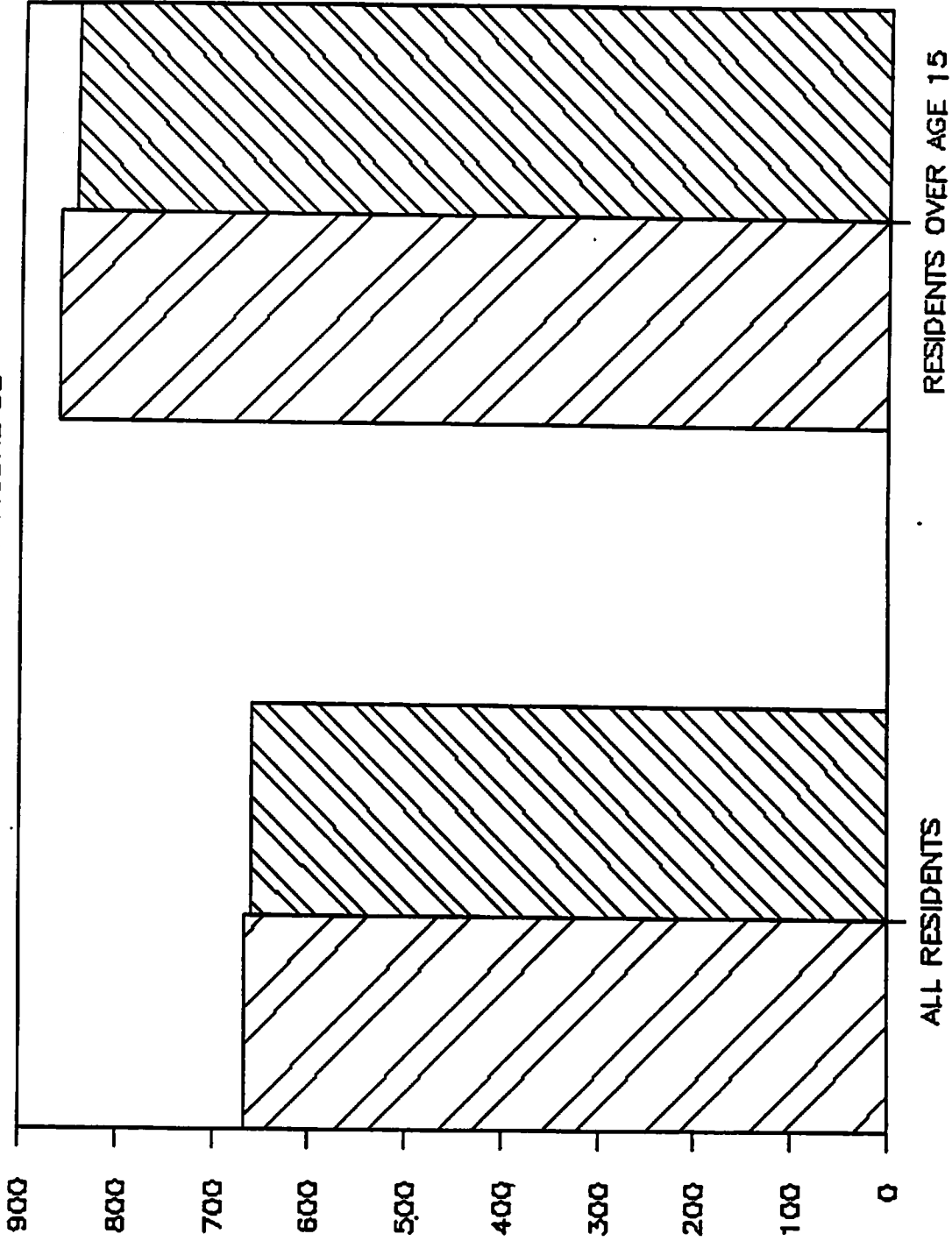


PERCENTAGE OF DRIVERS

SOURCE: HIGHWAY STATISTICS 1984, P. 33 U.S. DEPT. OF TRANSPORTATION, FHWA

RATIO OF LICENCED DRIVERS TO PEOPLE

IN THOUSANDS—FIGURE 3B

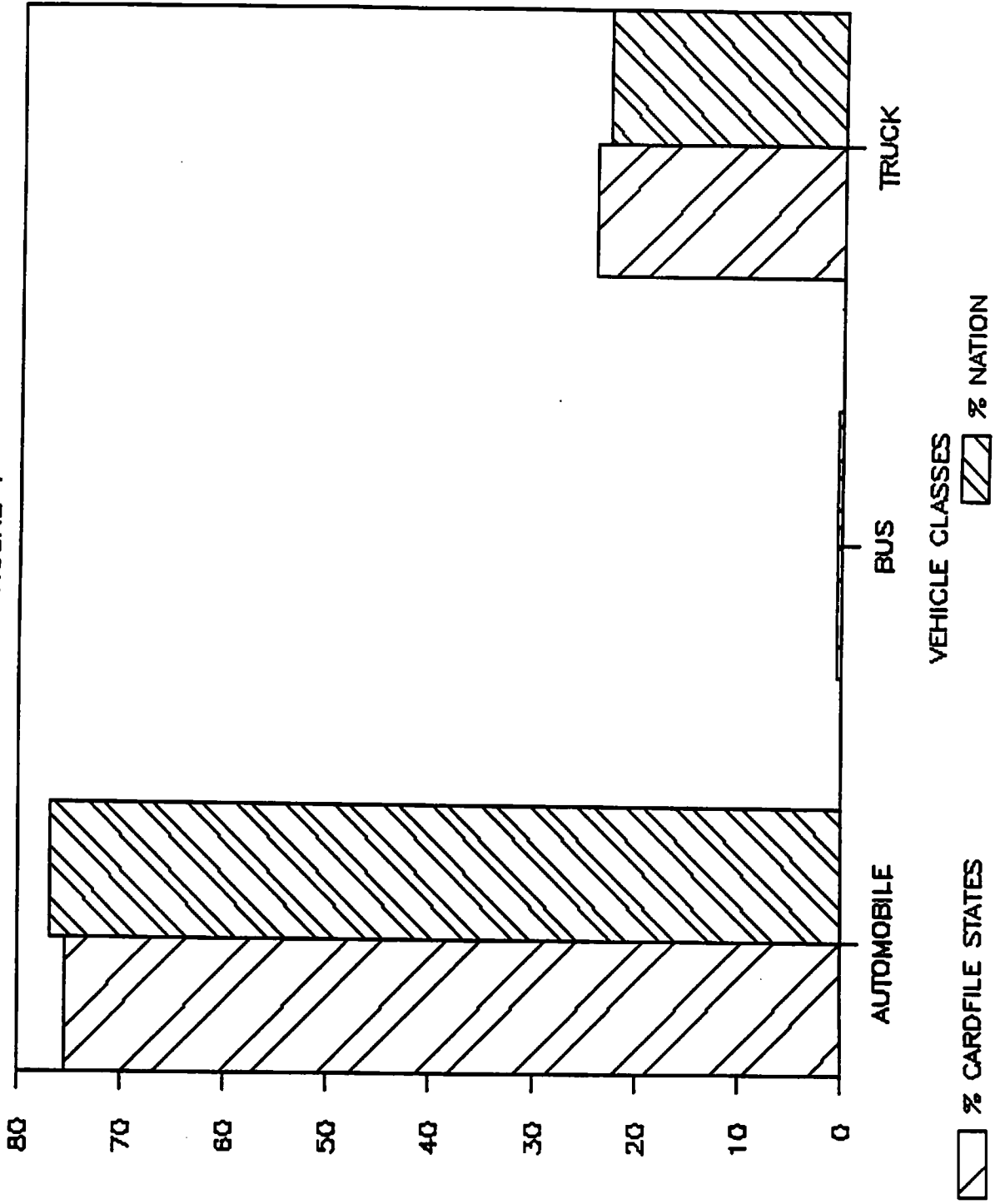


% CARDFILE STATES
 % NATION

SOURCE: HIGHWAY STATISTICS 1984, P. 31 U.S. DEPT. OF TRANSPORTATION, FHWA

MOTOR VEHICLE REGISTRATIONS BY CLASS

FIGURE 4

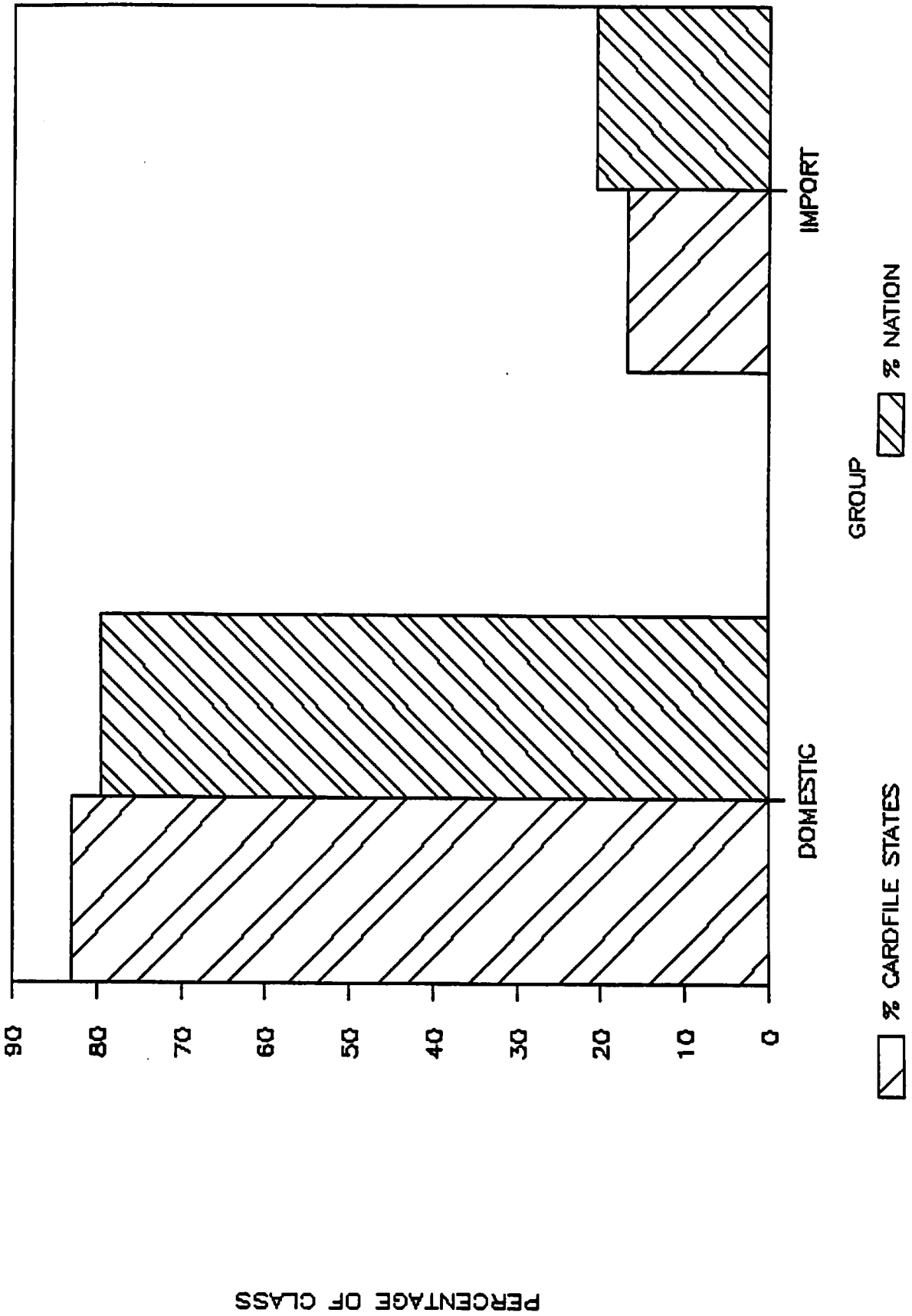


SOURCE: HIGHWAY STATISTICS 1984, p. 17 U.S. DEPT. OF TRANSPORTATION, FHWA

PERCENTAGE OF ALL VEHICLES

REGISTERED VEHICLES: DOMESTIC VS IMPORTS

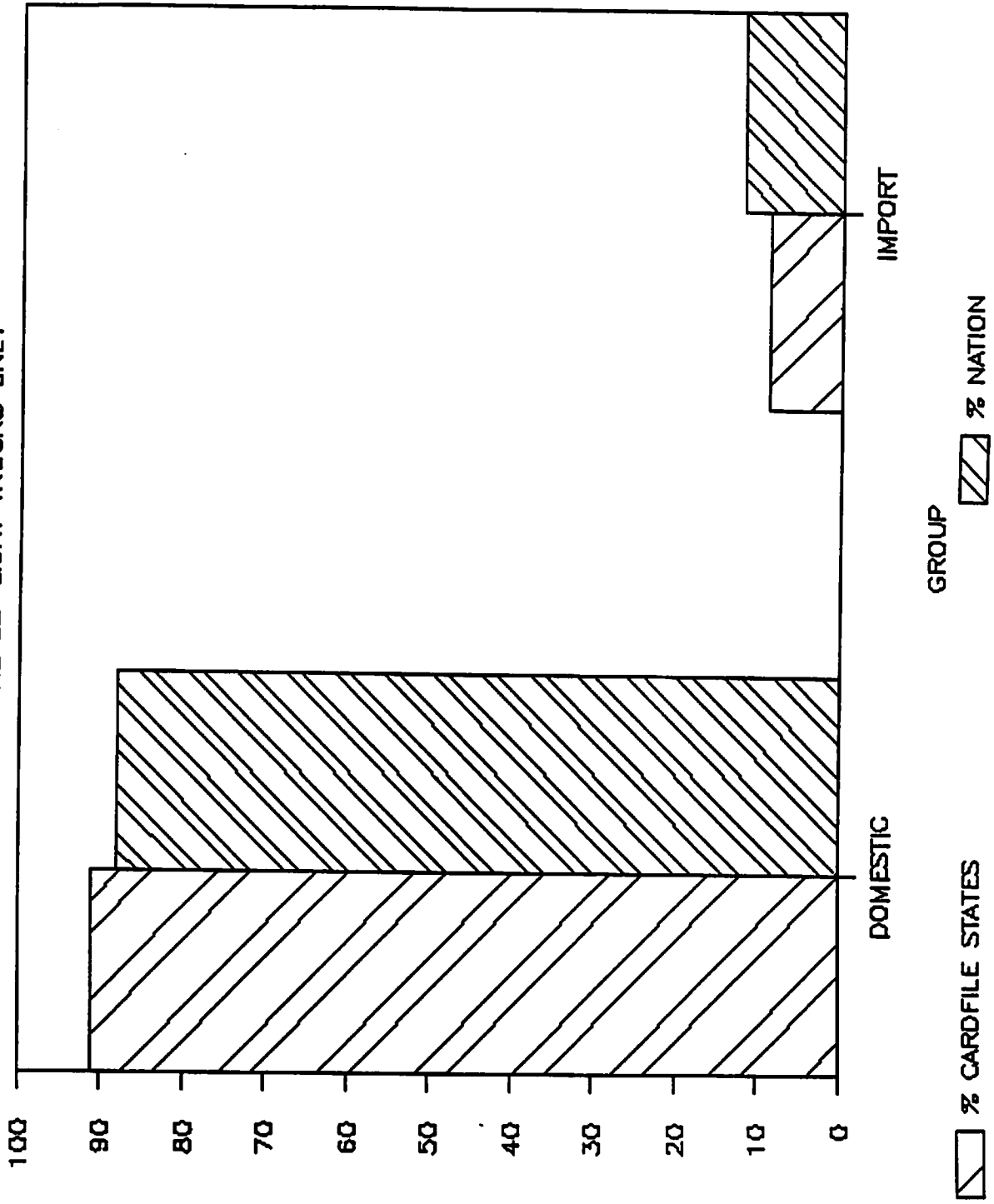
FIGURE 5A--AUTOMOBILES ONLY



SOURCE: POLK NVPP 1984

REGISTERED VEHICLES: DOMESTIC VS IMPORTS

FIGURE 5B—LIGHT TRUCKS ONLY

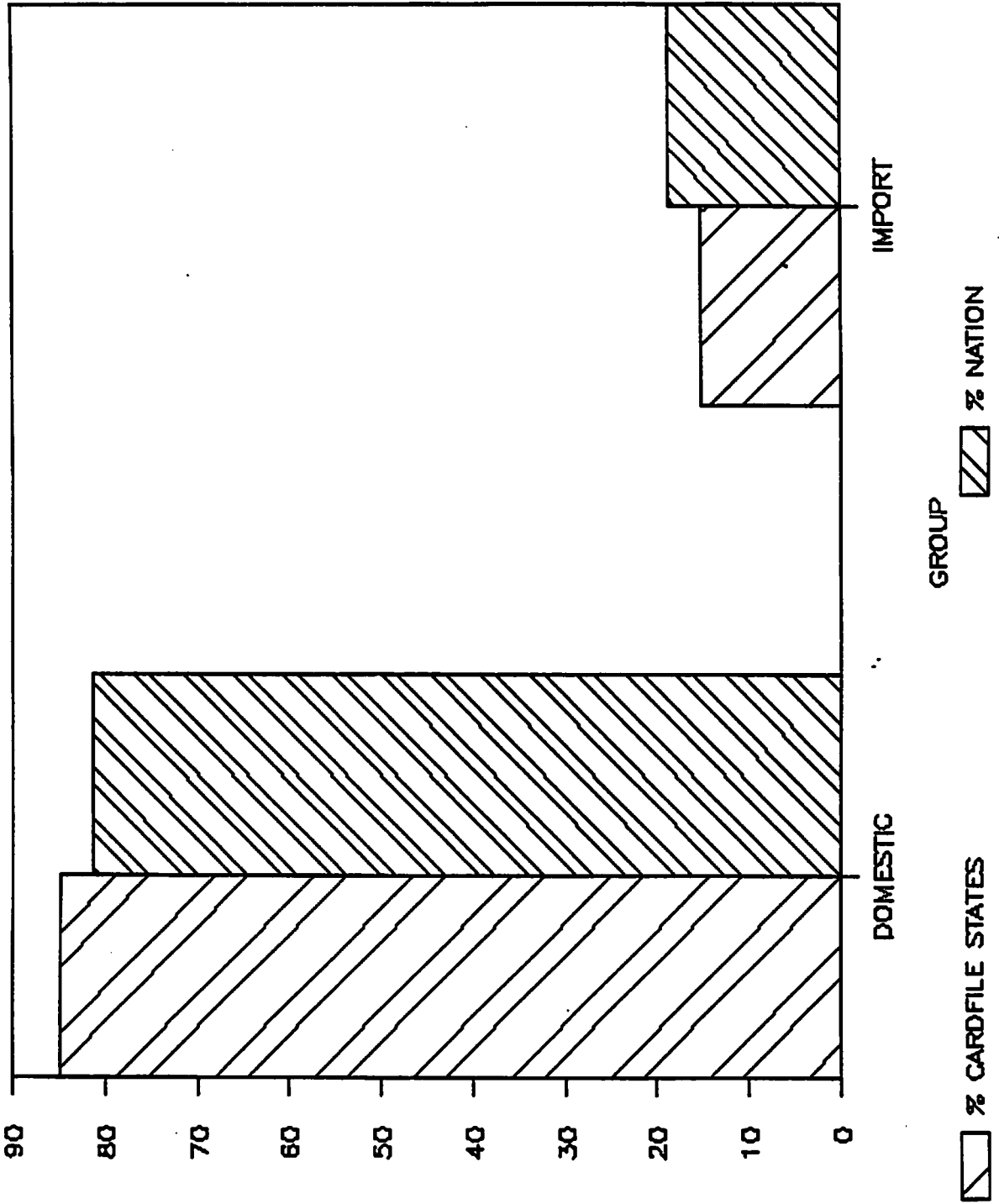


PERCENTAGE OF CLASS

SOURCE: POLK NVPP 1984 DATA BASE

REGISTERED VEHICLES: DOMESTIC VS IMPORTS

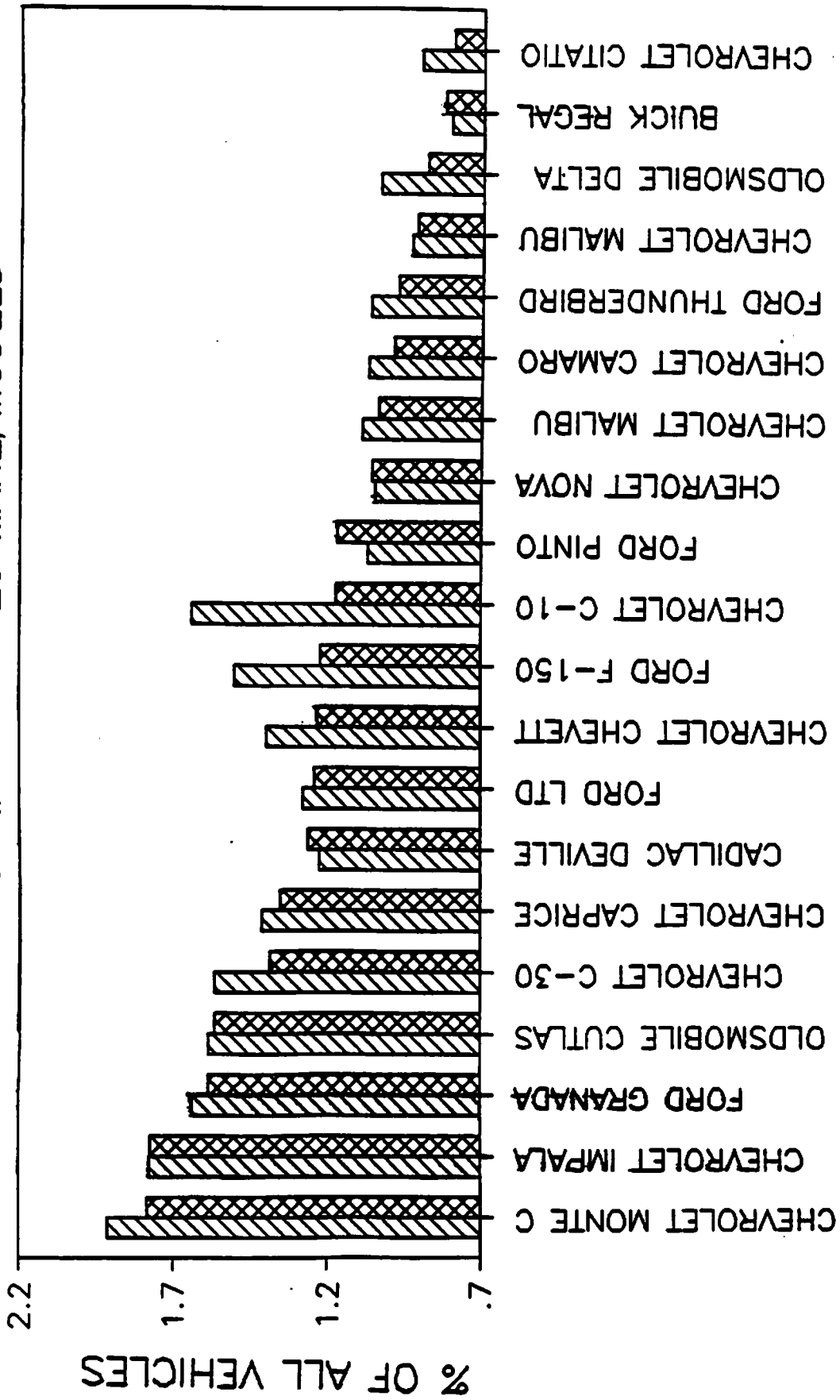
FIGURE 5C—AUTOMOBILES AND LIGHT TRUCKS





PERCENTAGE OF CLASS

SOURCE: POLK NVPP 1984 DATA BASE

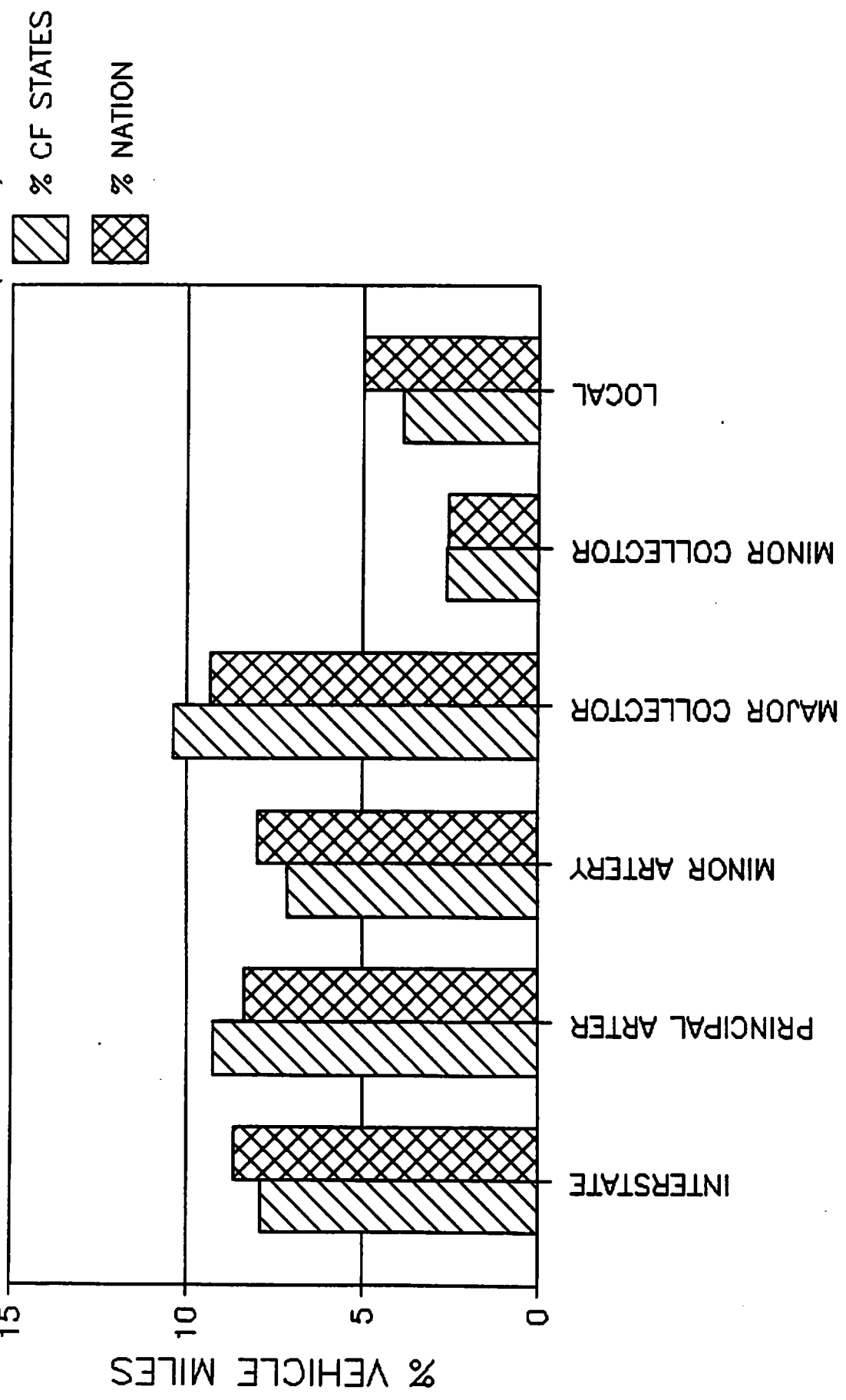
FIGURE 6. TOP 20 MAKE/MODELS



 % CF STATES
 % NATION

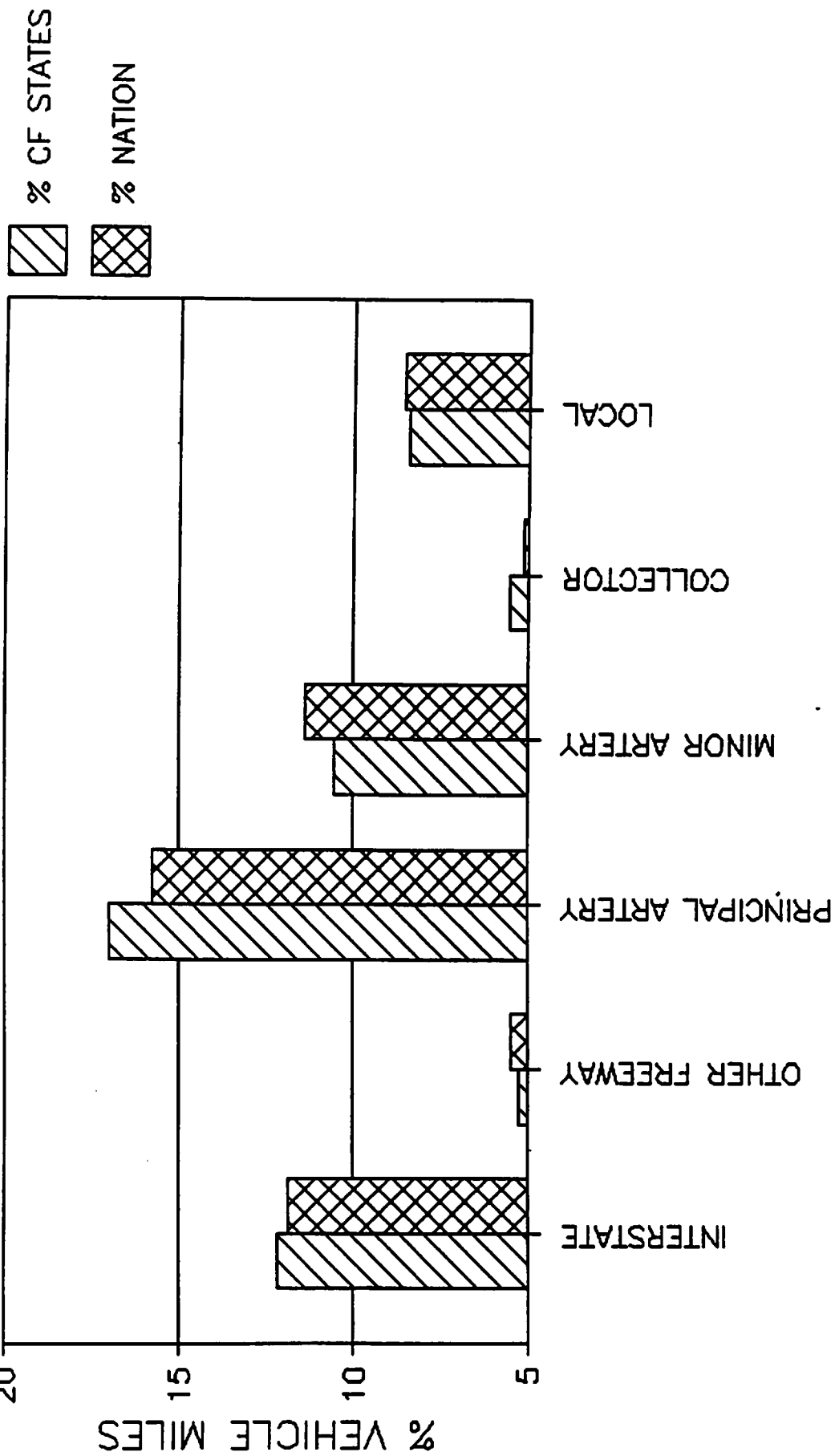
SOURCE: POLK NVPP 1984 DATA BASE

FIGURE 7A. ANNUAL VEH. MILES BY ROAD FUNC. CLASS (MILL.)—RURAL



SOURCE: HIGHWAY STATISTICS 1984, p.176

FIGURE 7B. ANNUAL VEH. MILES BY ROAD FUNC. CLASS (MILL.)—URBAN



SOURCE: HIGHWAY STATISTICS 1984, p. 176

FIGURE 8A. ROAD MILEAGE BY FUNCTIONAL CLASS—RURAL

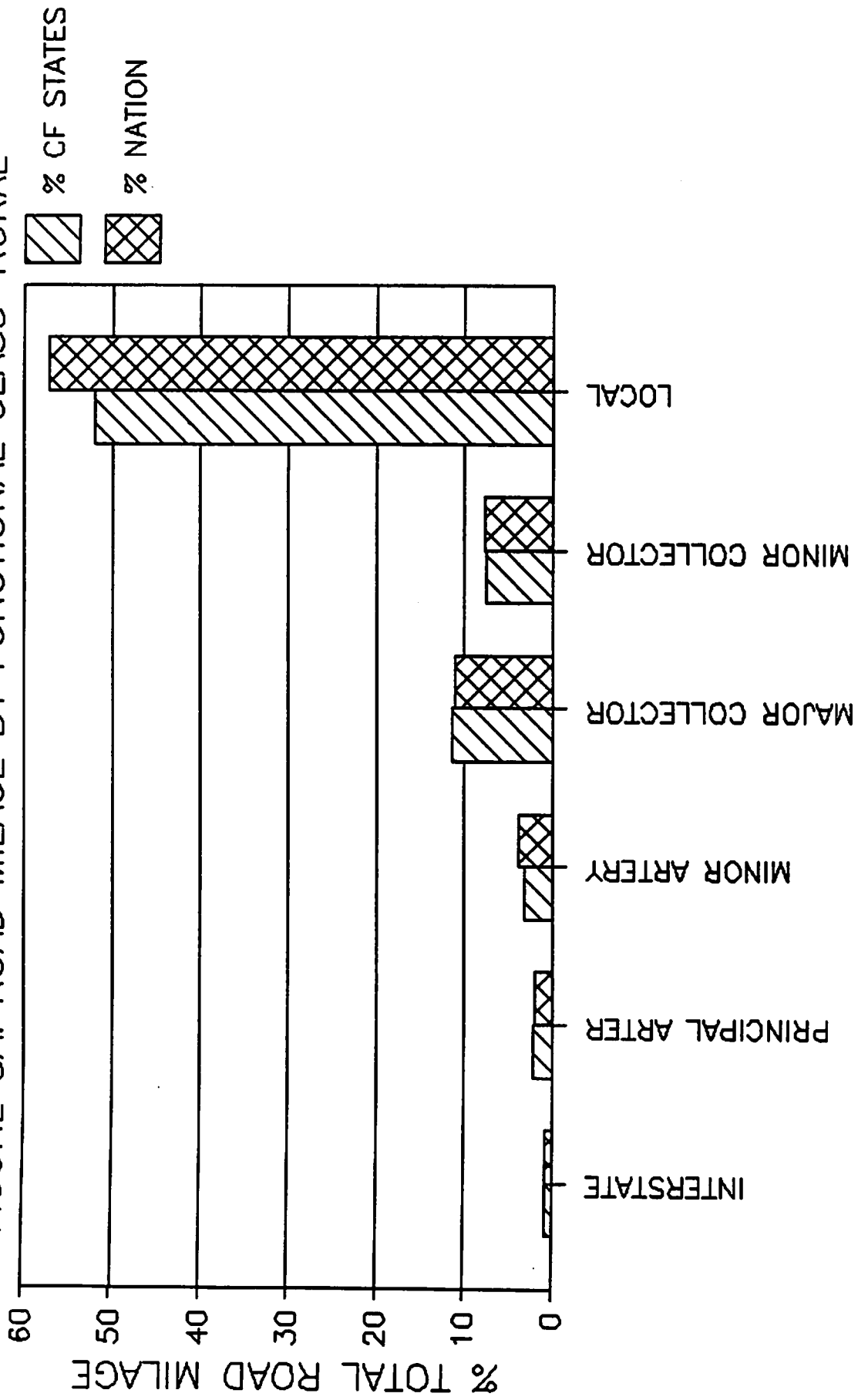
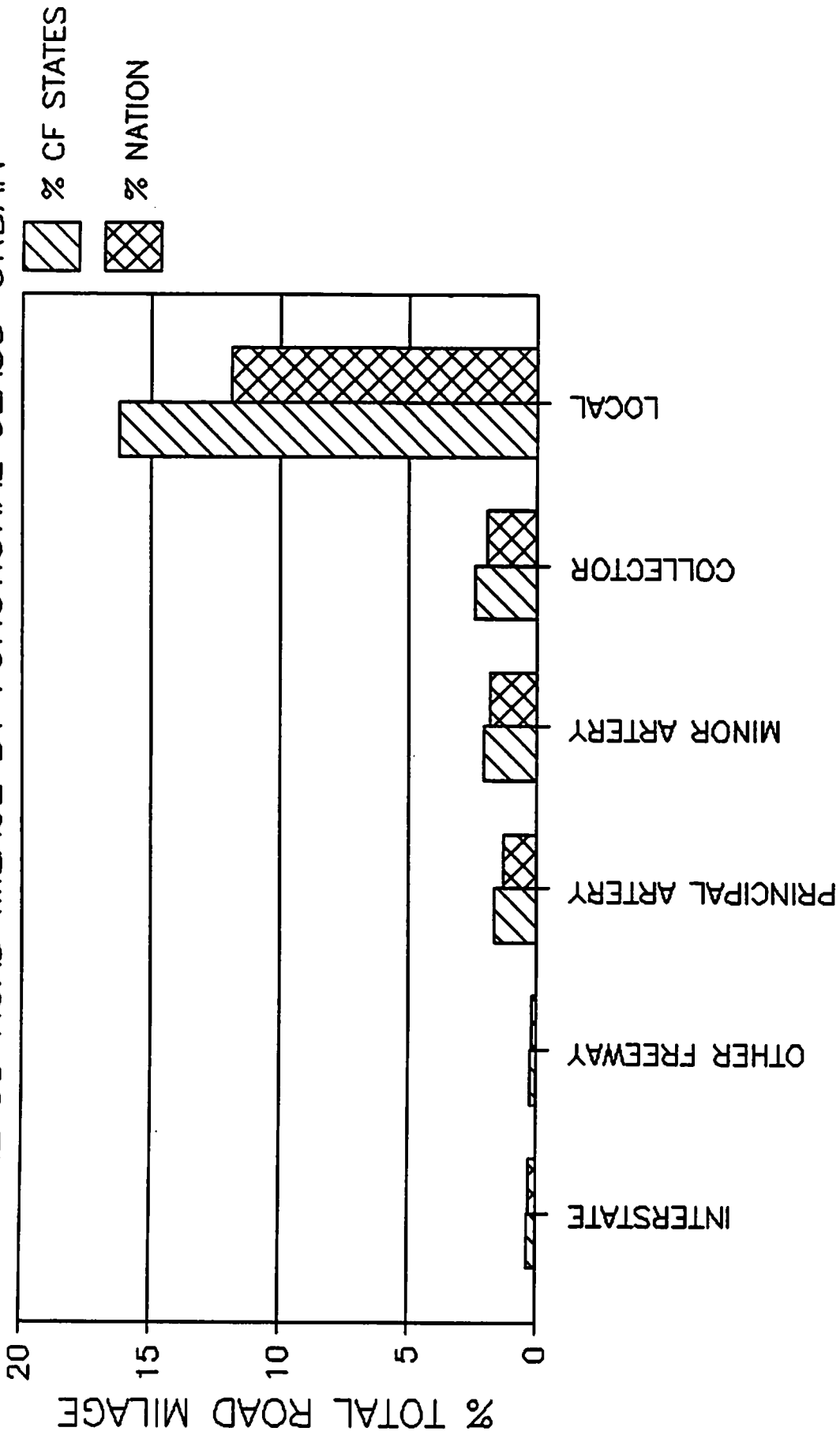


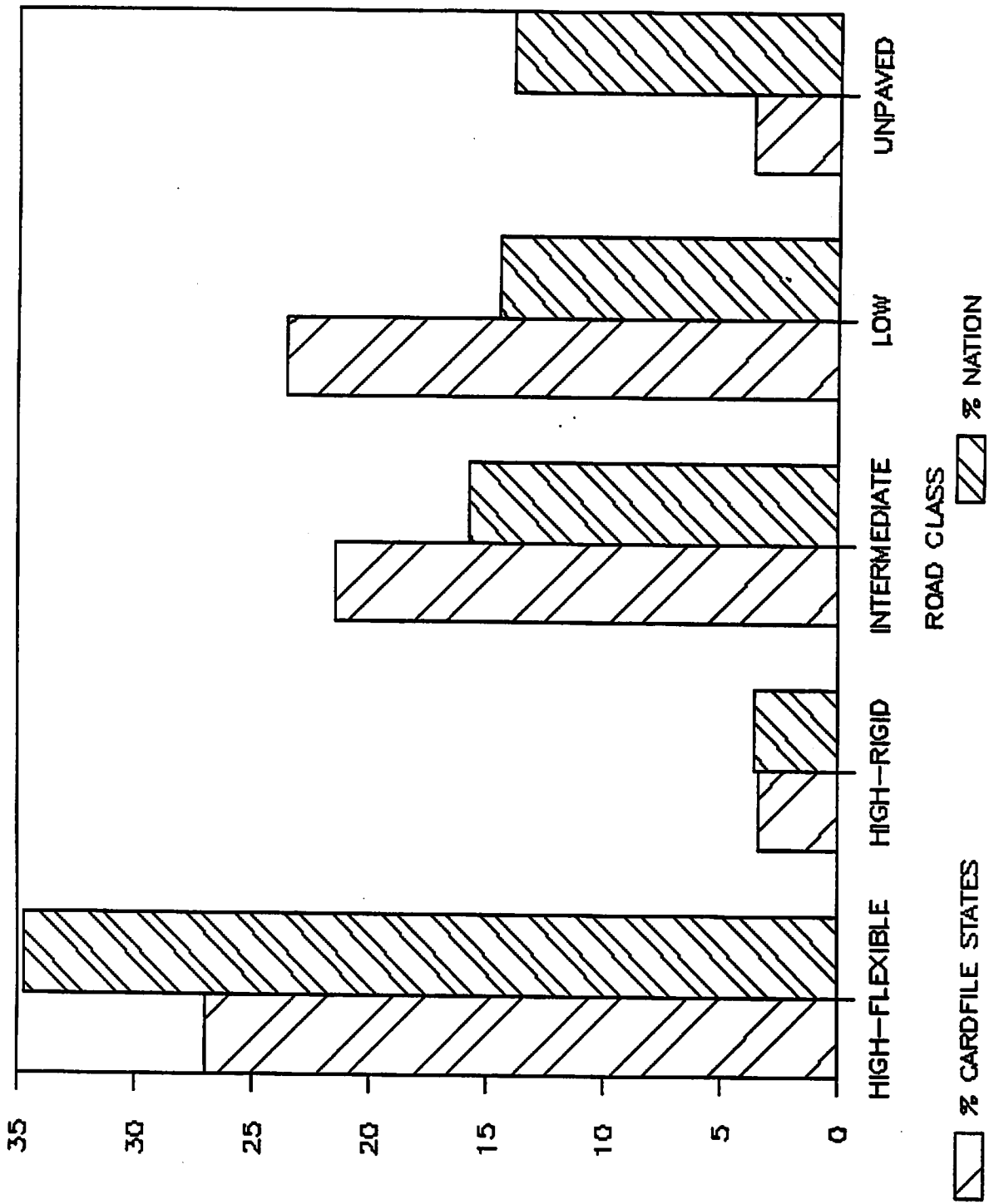
FIGURE 8B ROAD MILEAGE BY FUNCTIONAL CLASS—URBAN



SOURCE: HIGHWAY STATISTICS 1984, p. 121

ROAD MILEAGE BY SURFACE TYPE

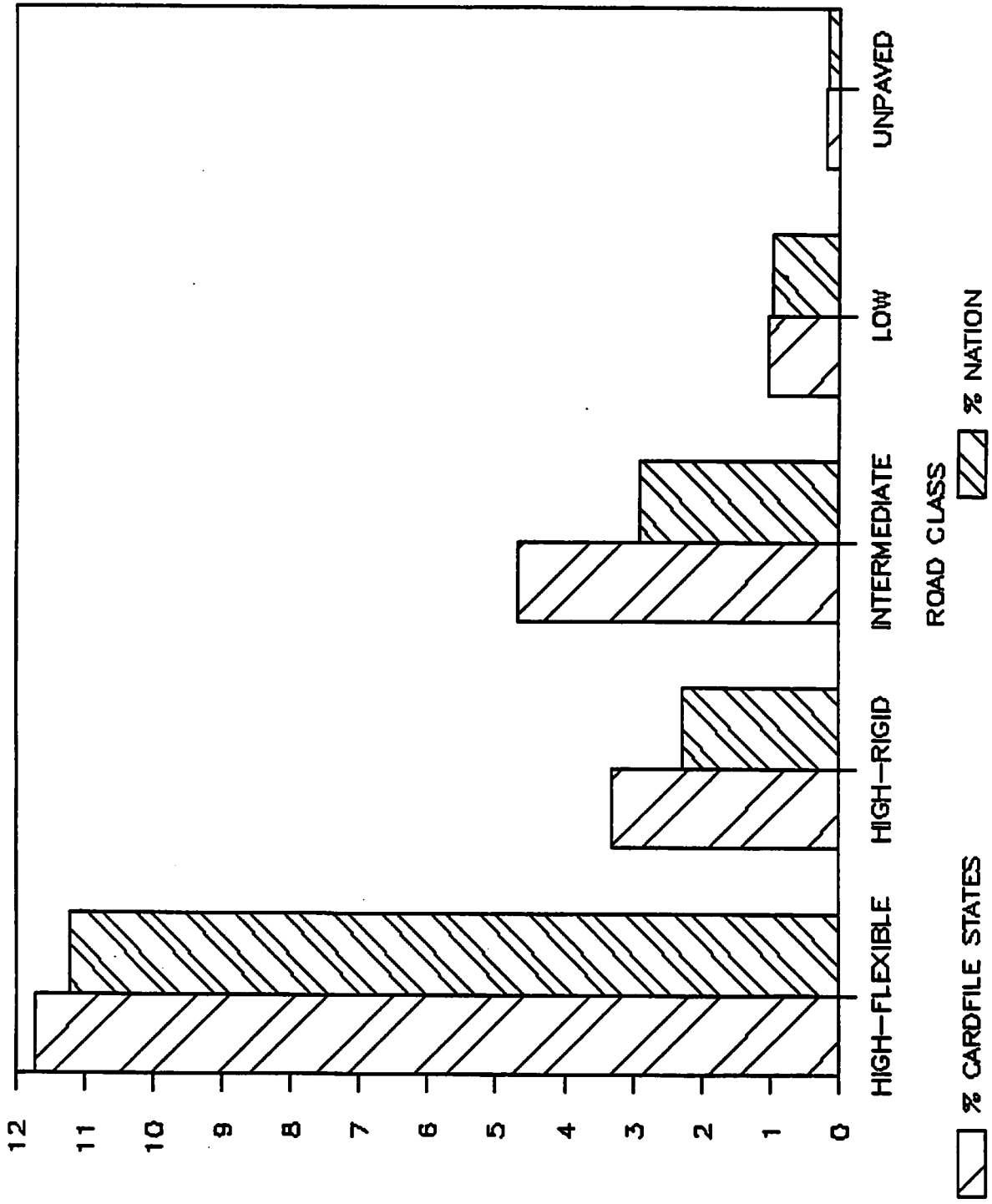
RURAL-FIGURE 9A



SOURCE: HIGHWAY STATISTICS 1984, pp. 142-145

ROAD MILEAGE BY SURFACE TYPE

URBAN—FIGURE 9B

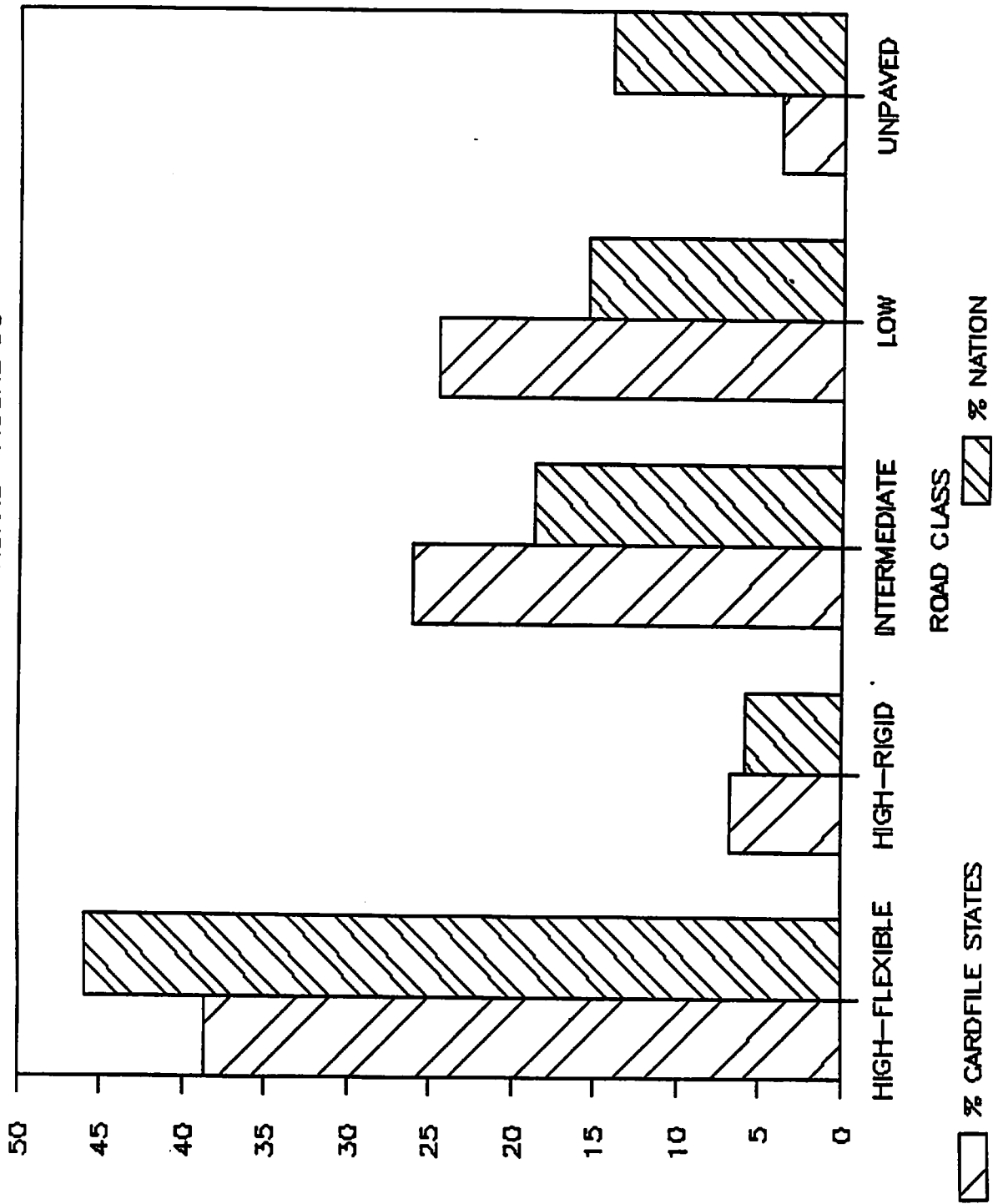


% OF TOTAL HIGHWAYS

SOURCE: HIGHWAY STATISTICS 1984, pp. 142-45

ROAD MILEAGE BY SURFACE TYPE

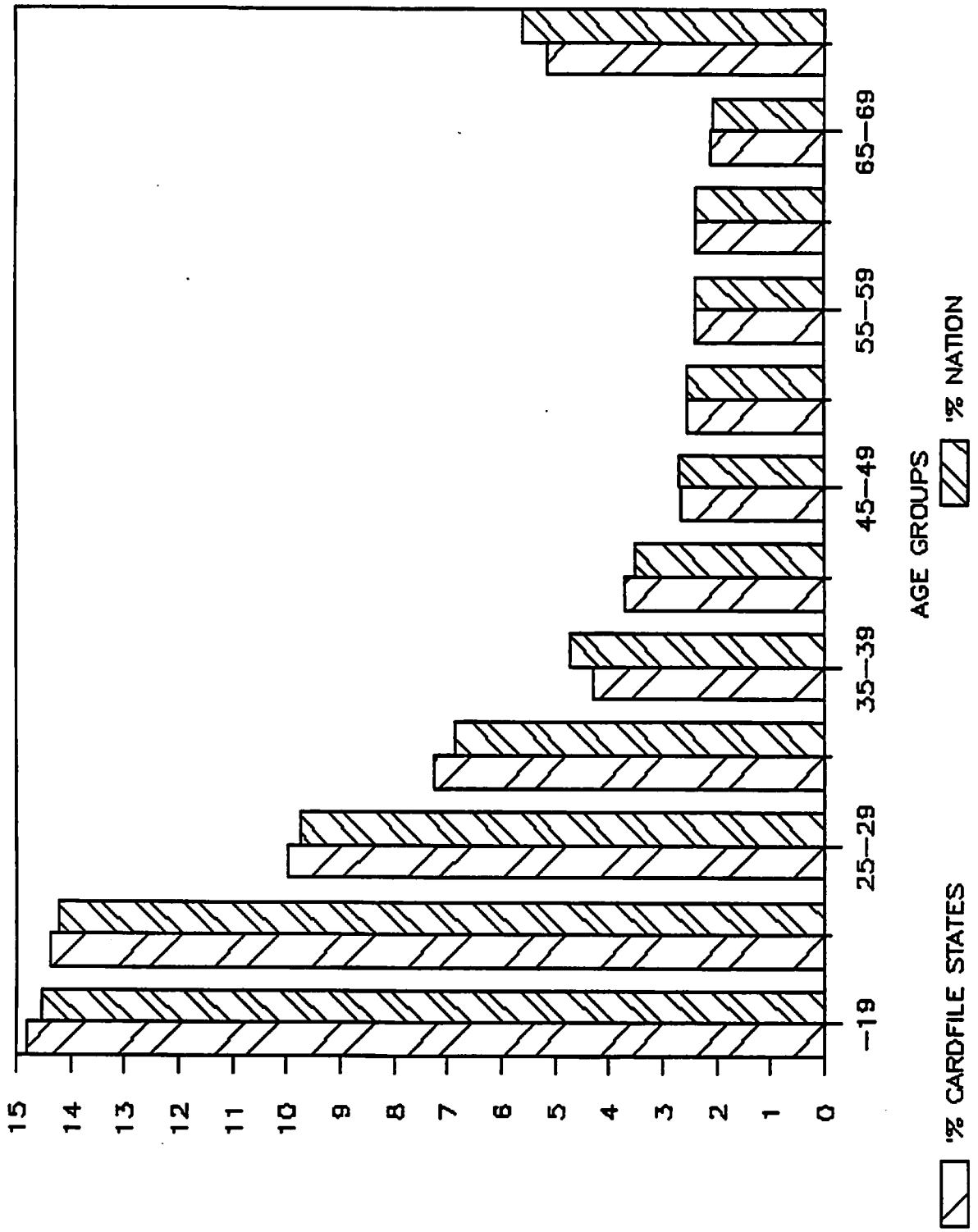
TOTAL URBAN+RURAL - FIGURE 9C



SOURCE: HIGHWAY STATISTICS 1984, PP. 142-145

MOTOR VEHICLE FATALITIES BY SEX BY AGE

COMPARISONS FOR MALES—FIGURE 10A

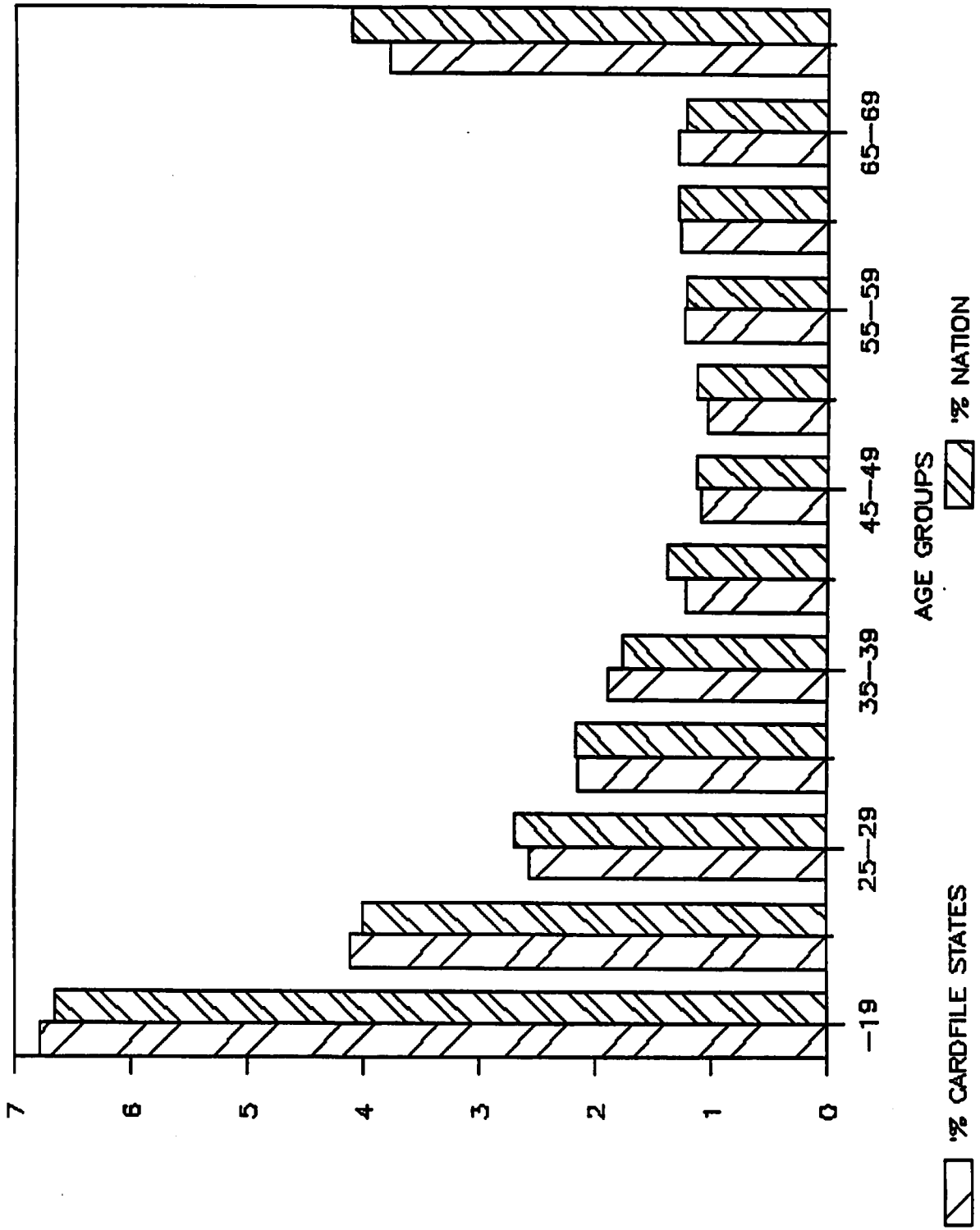


PERCENTAGE OF POPULATION

SOURCE: FARS 1984 DATA BASE

MOTOR VEHICLE FATALITIES BY SEX BY AGE

COMPARISONS FOR FEMALES—FIGURE 10B

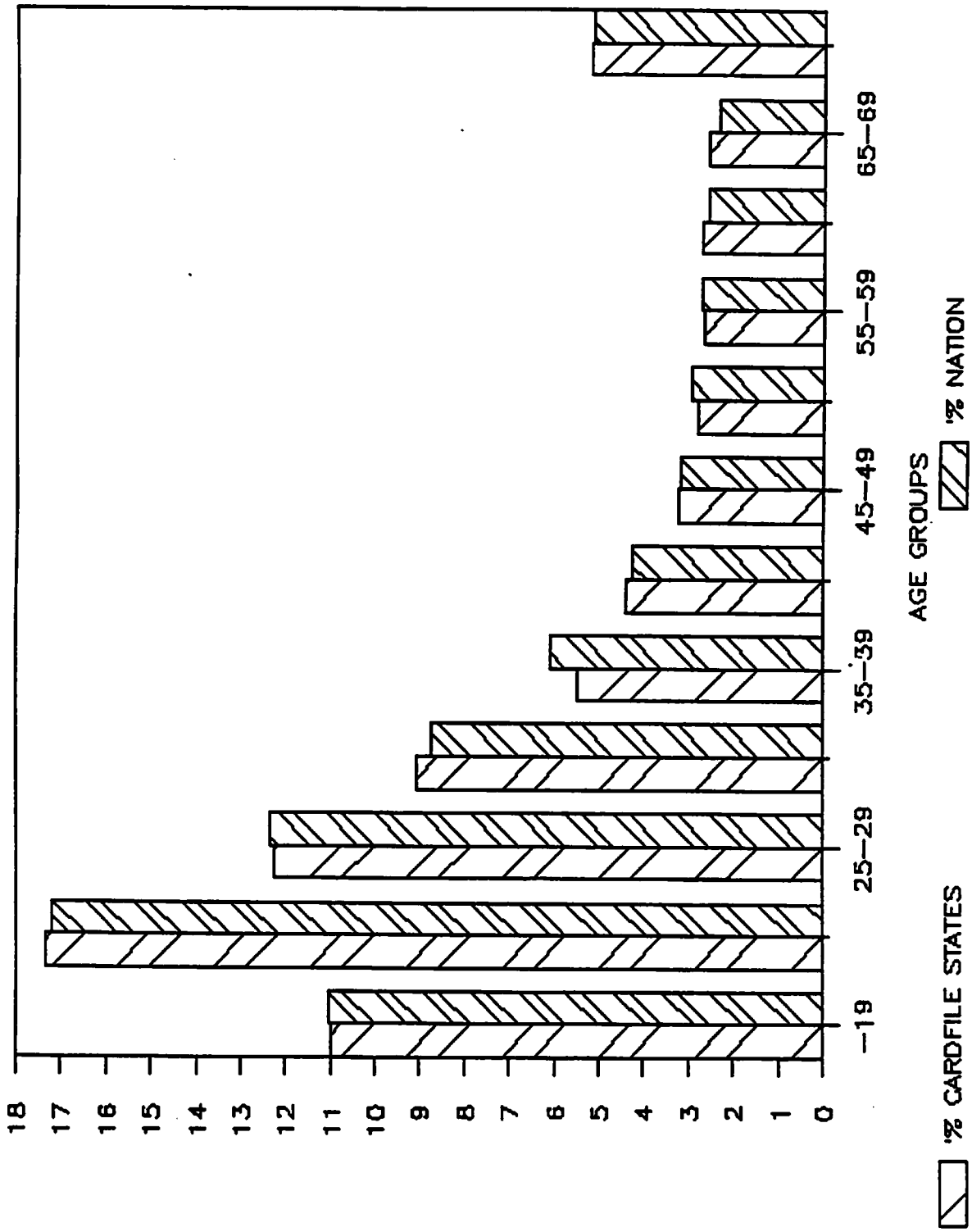


PERCENTAGE OF POPULATION

SOURCE: FARS 1984 DATA BASE

MOTOR VEHICLE FATALITIES BY SEX BY AGE

COMPARISON OF MALE DRIVERS—FIGURE 11A

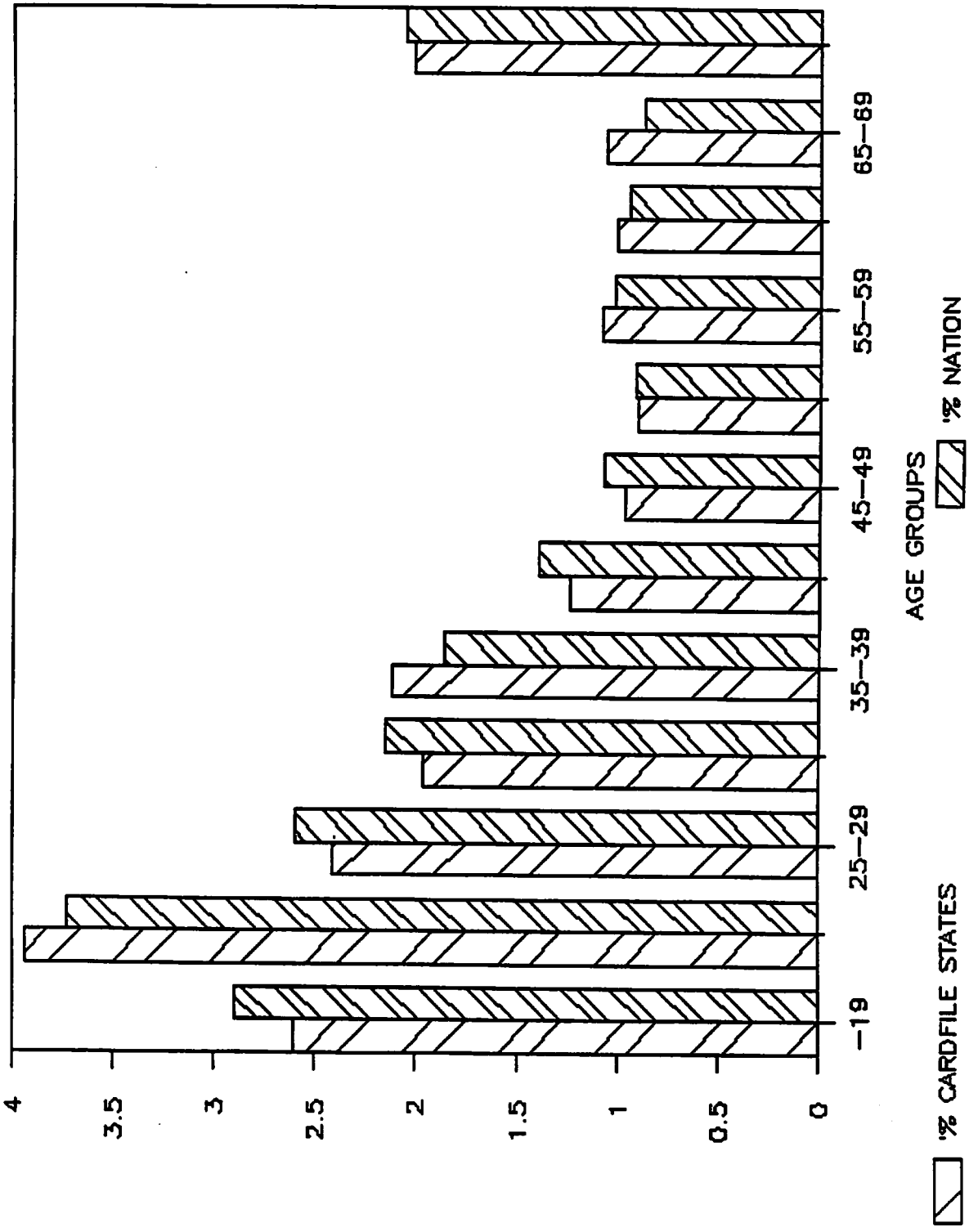


 % CARDFILE STATES
 % NATION
 SOURCE: FARS 1984 DATA BASE

PERCENTAGE OF POPULATION

MOTOR VEHICLE FATALITIES BY SEX BY AGE

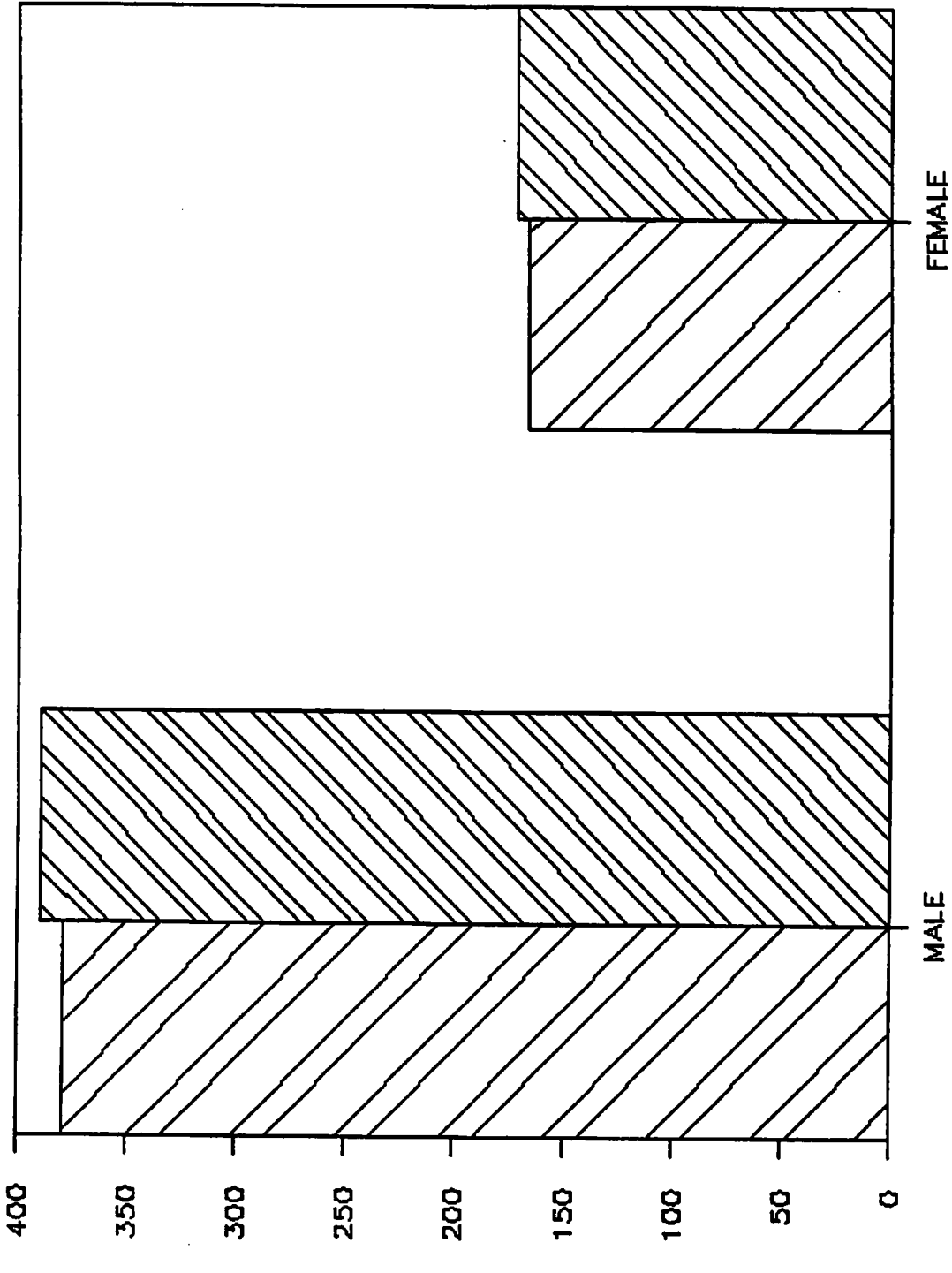
COMPARISON OF FEMALE DRIVERS—FIGURE 11B



SOURCE: FARS 1984 DATA BASE

FATALITIES PER MILLION LICENCED DRIVERS

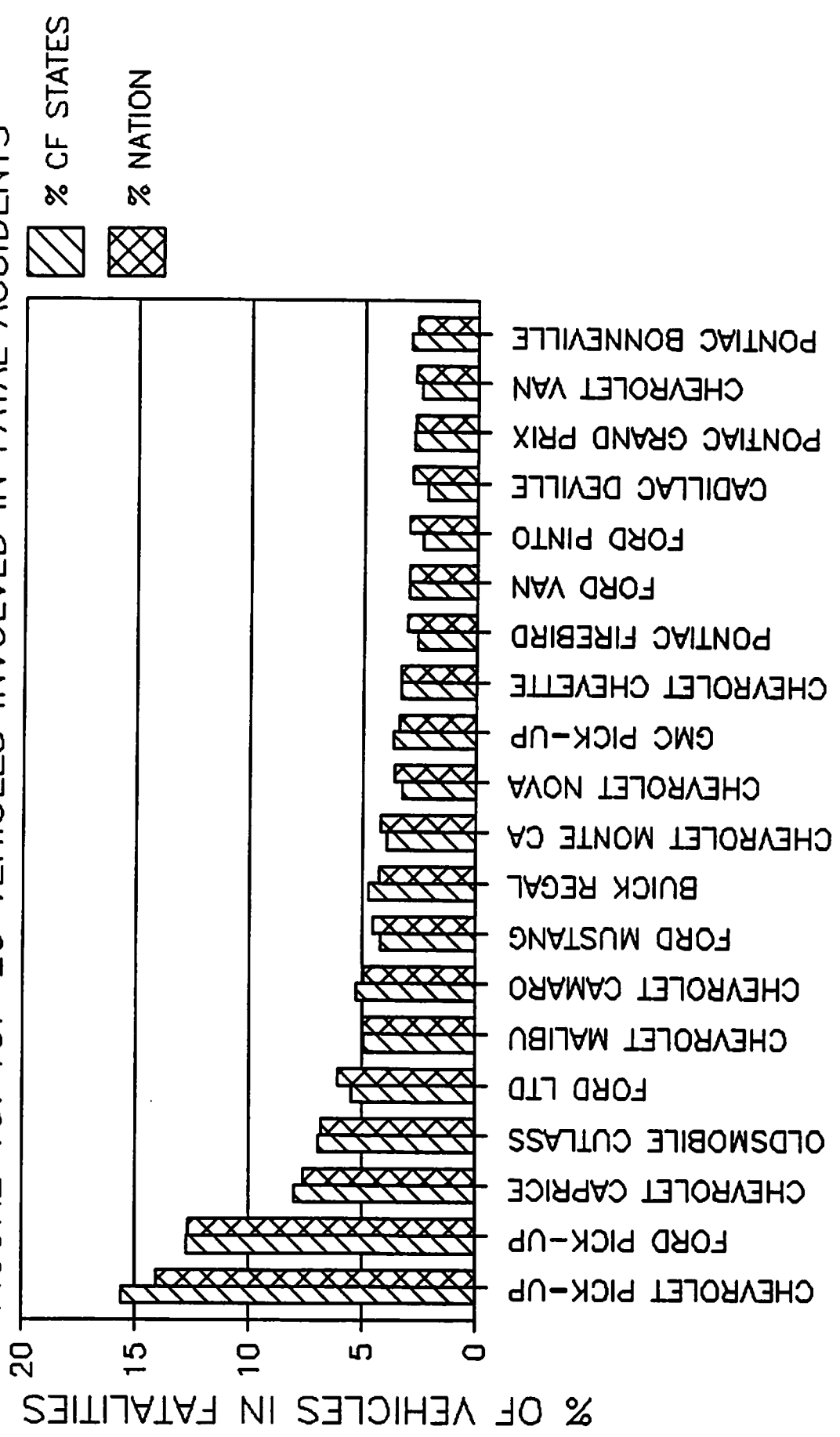
PER YEAR BY SEX—FIGURE 12



% CARDFILE STATES
 % NATION

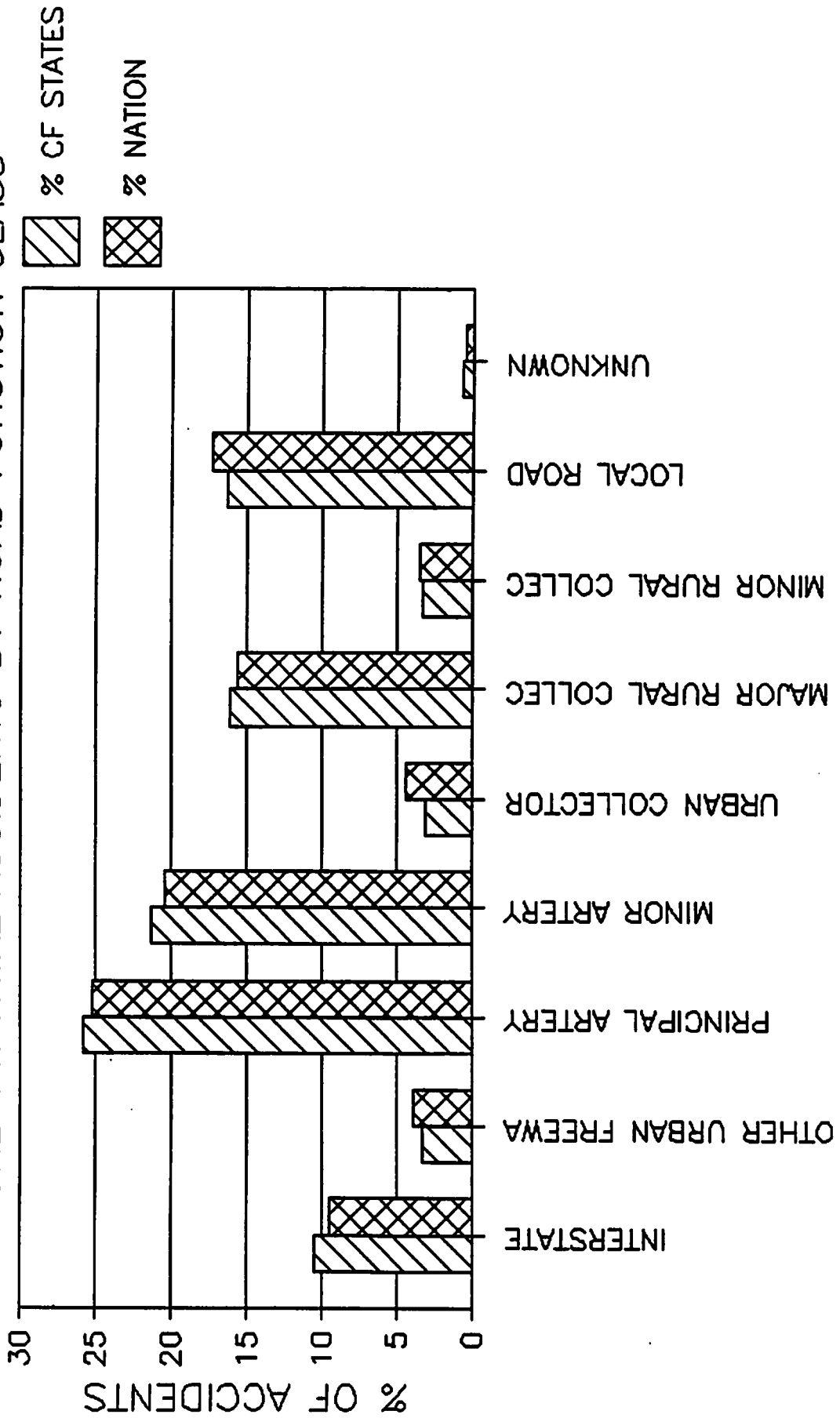
SOURCE: FARS 1984 DATA BASE AND U.S. HIGHWAY STATISTICS 1984, pp. 33

FIGURE 13. TOP 20 VEHICLES INVOLVED IN FATAL ACCIDENTS



SOURCE: FARS 1984 DATA BASE

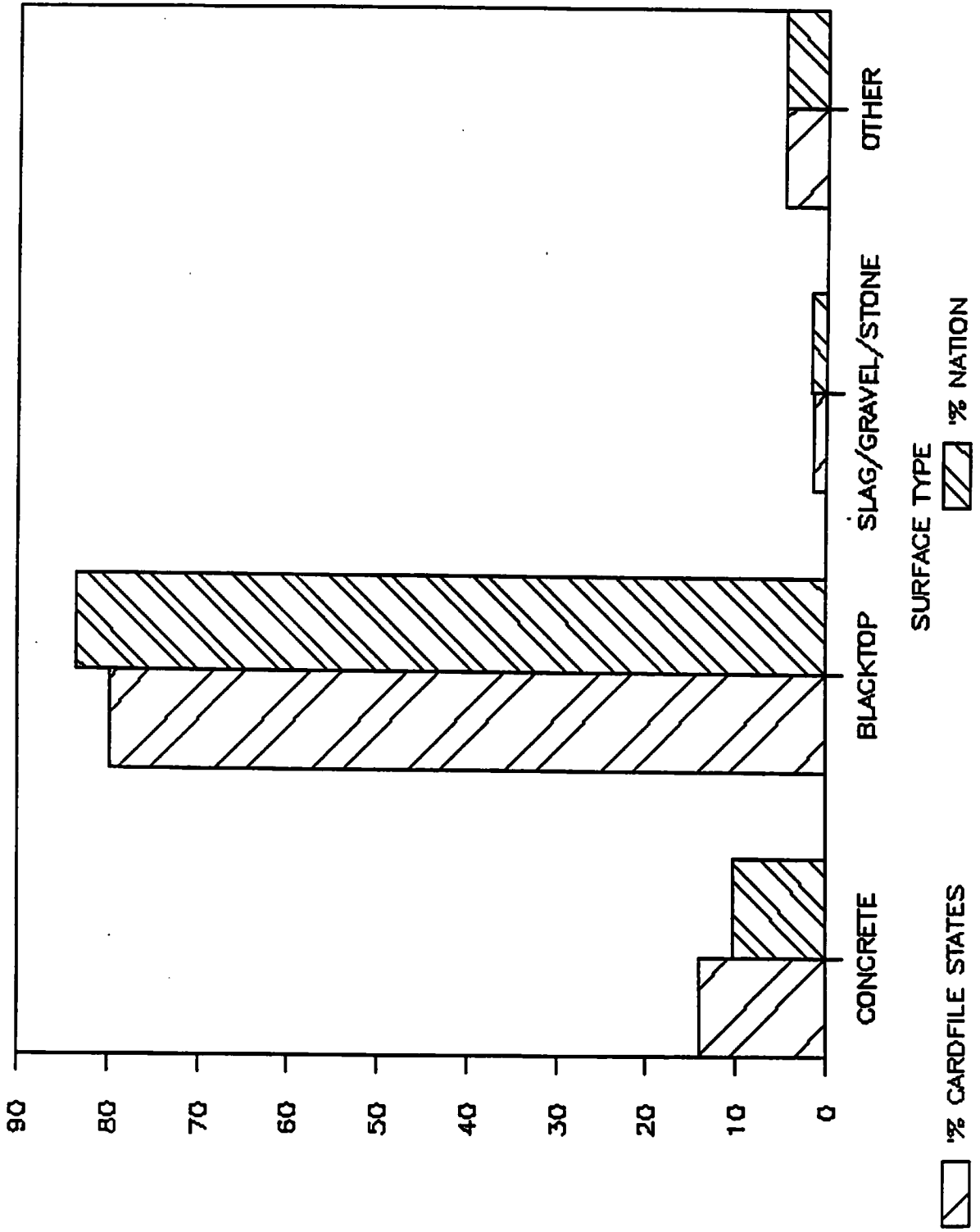
FIGURE 14. FATAL ACCIDENTS BY ROAD FUNCTION CLASS



SOURCE: FARS 1984 DATA BASE

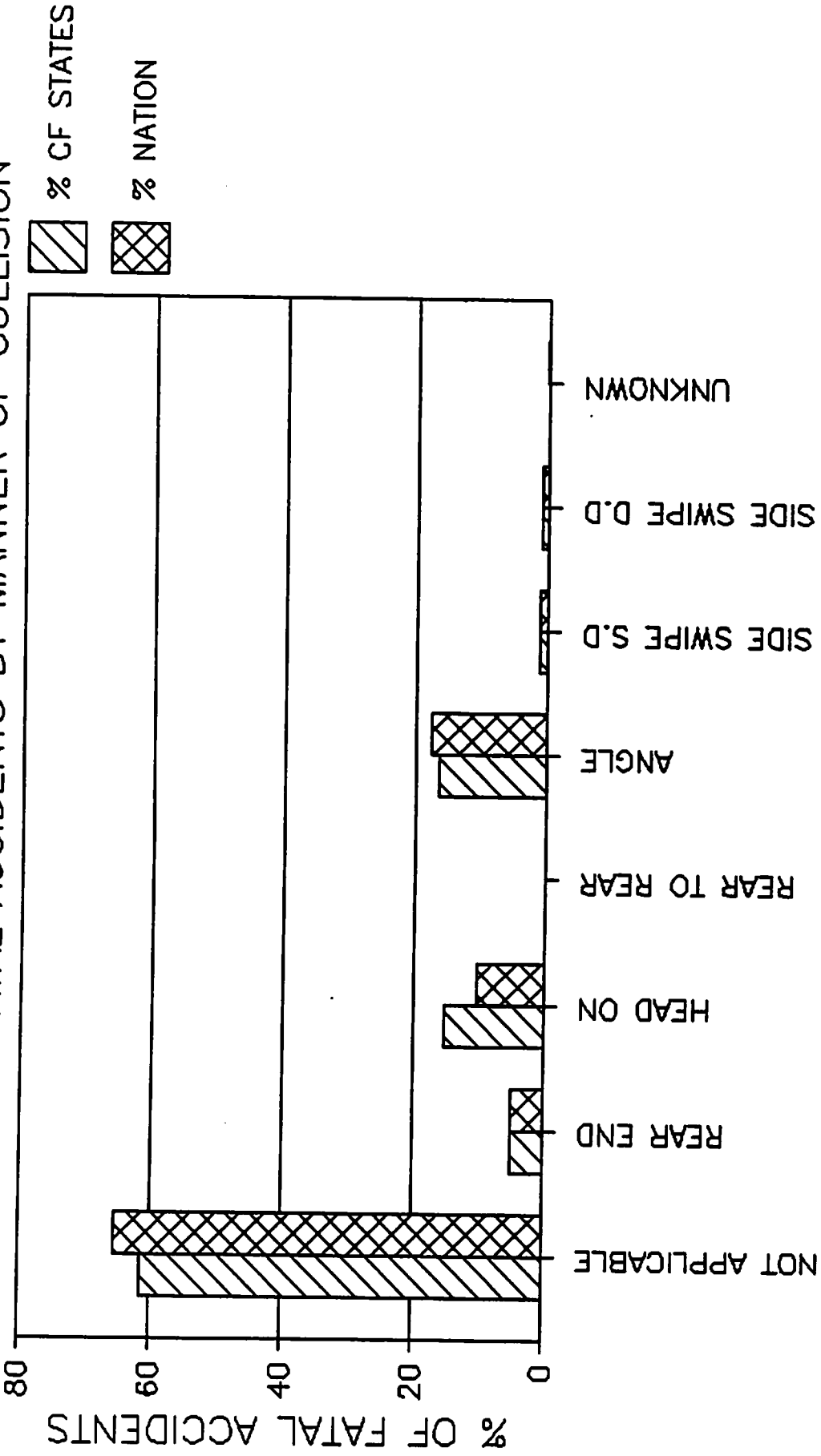
FATAL ACCIDENTS BY SURFACE TYPE

FIGURE 15A



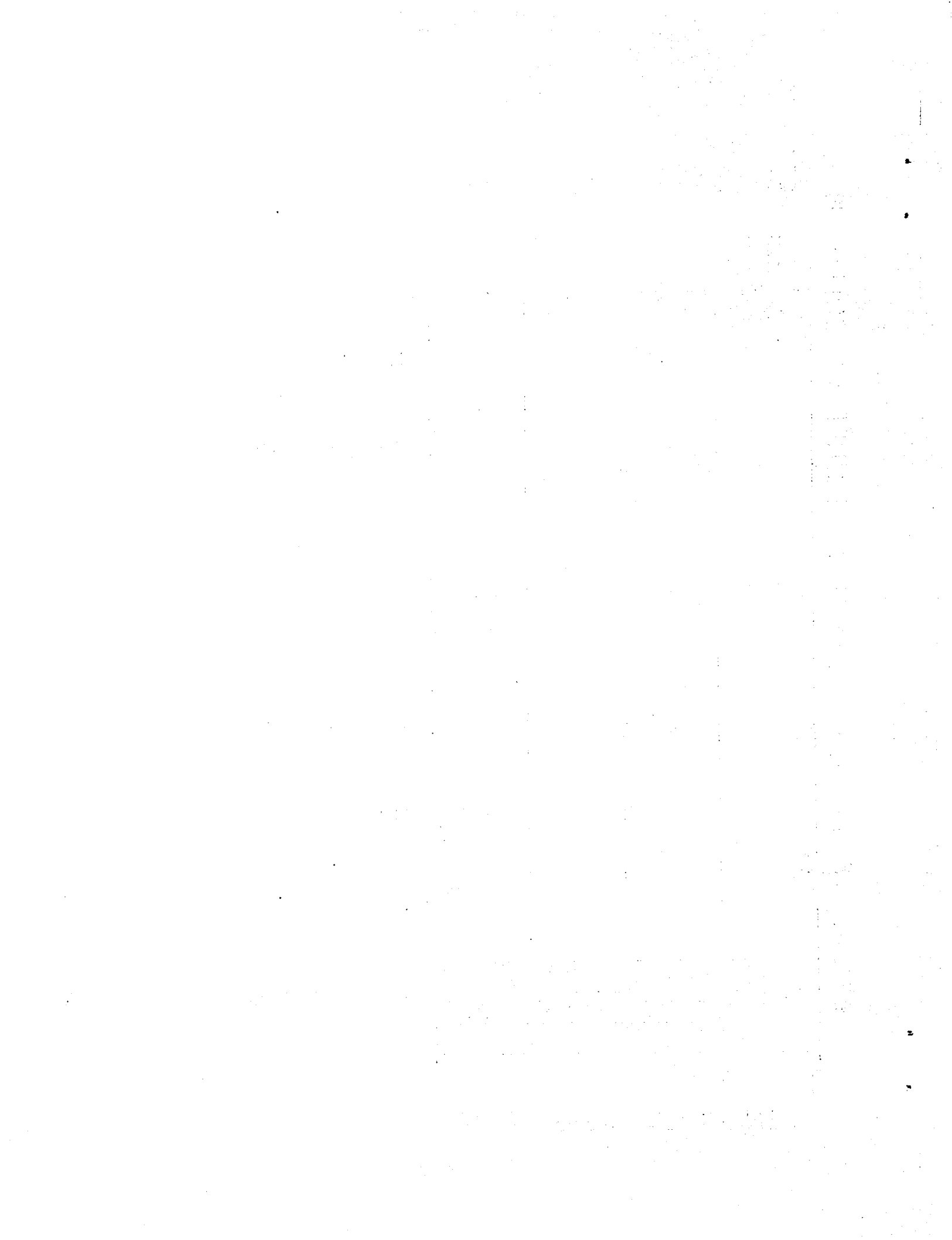
SOURCE: FARS 1984 DATA BASE

FIGURE 16. FATAL ACCIDENTS BY MANNER OF COLLISION



MANNER OF COLLISION

SOURCE: FARS 1984 DATA BASE



APPENDIX C

TABLES OF INDIVIDUAL CARDFILE STATES VS. NATION

APPENDIX TABLE 1-PEOPLE BY AGE BY STATE (IN MILLIONS)

STATE	PEOPLE	% OF STATES	% OF NATIONAL	CLASS	PEOPLE	% OF STATES	% OF NATIONAL	CLASS	PEOPLE	% OF STATES	% OF NATIONAL	CLASS	PEOPLE	% OF STATES	% OF NATIONAL	CLASS	PEOPLE	% OF STATES	% OF NATIONAL	CLASS
14	14-17	18-24	25-34	35-44	45-54	55-64	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+
INDIANA	1.16	21.08	2.42	1.04	0.35	6.42	2.40	1.03	0.68	12.46	2.35	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01
MARYLAND	0.81	18.58	1.68	0.91	0.28	6.37	1.88	1.02	0.57	13.72	1.97	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
MICHIGAN	1.88	20.72	3.92	1.02	0.80	6.67	4.11	1.07	1.15	12.66	3.95	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
PENNSYLVANIA	2.18	18.31	4.56	0.90	0.73	6.15	4.98	0.99	1.39	11.64	4.76	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
TEXAS	3.70	23.12	7.70	1.14	1.02	6.37	6.93	1.02	2.02	12.66	6.95	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
WASHINGTON	0.90	20.63	1.87	1.01	0.26	6.05	1.79	0.97	0.51	11.62	1.76	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
TOTAL	10.62	20.76	22.13	1.02	3.25	6.35	22.09	1.02	6.33	12.38	21.75	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NATION	47.98	20.37	14.71	6.23	29.12	12.33														
INDIANA	0.94	17.09	2.30	0.97	0.69	12.64	2.27	0.97	1.03	18.71	2.30	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
MARYLAND	0.77	17.82	1.89	1.03	0.62	14.26	2.02	1.10	0.85	19.46	1.89	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
MICHIGAN	1.61	17.76	3.94	1.02	1.15	12.72	3.76	0.98	1.67	18.37	3.73	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
PENNSYLVANIA	1.97	16.51	4.86	0.95	1.47	12.34	4.79	0.95	2.50	20.97	5.59	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11
TEXAS	2.89	18.06	7.06	1.04	2.06	12.87	6.71	0.99	2.79	17.44	6.23	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
WASHINGTON	0.81	18.69	1.99	1.08	0.61	13.96	1.98	1.08	0.76	17.54	1.70	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
TOTAL	8.99	17.58	21.98	1.01	6.60	12.90	21.54	0.99	9.59	18.74	21.43	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
NATION	40.91	17.32	30.65	12.98	44.75	18.95														
INDIANA	0.64	11.60	2.78	0.98	5.50															
MARYLAND	0.45	10.28	1.59	0.87	4.35															
MICHIGAN	1.01	11.10	3.59	0.93	9.07															
PENNSYLVANIA	1.68	14.08	5.98	1.19	11.90															
TEXAS	1.51	9.47	5.40	0.80	15.99															
WASHINGTON	0.49	11.31	1.75	0.95	4.35															
TOTAL	5.77	11.29	20.59	0.95	51.16															
NATION	28.04	11.87	1236.16																	
AGE	14	14-17	18-24	25-34	35-44	45-54	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+
STATES	10.62	20.76	47.98	20.32	22.13	1.02	20.32	22.13	1.02	20.32	22.13	1.02	20.32	22.13	1.02	20.32	22.13	1.02	20.32	22.13
NATION	3.25	6.35	14.71	6.23	22.09	1.02	6.23	22.09	1.02	6.23	22.09	1.02	6.23	22.09	1.02	6.23	22.09	1.02	6.23	22.09
STATES	8.99	17.58	40.91	17.32	21.98	1.01	17.32	21.98	1.01	17.32	21.98	1.01	17.32	21.98	1.01	17.32	21.98	1.01	17.32	21.98
NATION	6.60	12.90	30.65	12.98	21.54	0.99	12.98	21.54	0.99	12.98	21.54	0.99	12.98	21.54	0.99	12.98	21.54	0.99	12.98	21.54
STATES	9.59	18.74	44.75	18.95	21.43	0.99	18.95	21.43	0.99	18.95	21.43	0.99	18.95	21.43	0.99	18.95	21.43	0.99	18.95	21.43
NATION	5.77	11.29	28.04	11.87	20.59	0.95	11.87	20.59	0.95	11.87	20.59	0.95	11.87	20.59	0.95	11.87	20.59	0.95	11.87	20.59
TOTAL	51.16	236.16	21.66																	

SOURCE: STATISTICAL ABSTRACT OF U.S.P. 27

APPENDIX TABLE 2-POPULATION BY SEX BY AGE BY STATE

STATE	19-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		
	POPULATION	% OF NATIONAL	POPULATION	% OF NATIONAL	POPULATION	% OF NATIONAL	POPULATION	% OF NATIONAL	POPULATION	% OF NATIONAL	POPULATION	% OF NATIONAL	POPULATION	% OF NATIONAL	POPULATION	% OF NATIONAL	POPULATION	% OF NATIONAL	
INDIANA	935890.00	17.05	2.53	1.04	254974.00	4.68	2.41	0.99	729775.00	4.18	2.37	0.98	131999.00	2.40	2.41	0.99	109167.00	1.97	2.32
MARYLAND	675920.00	16.03	1.83	0.98	193252.00	4.58	1.81	0.97	160711.00	4.29	1.86	0.97	104727.00	2.08	1.91	1.03	81809.00	2.01	1.82
MICHIGAN	1587308.00	17.14	4.29	1.05	441026.00	4.77	4.14	1.01	399270.00	4.31	4.11	1.01	223704.00	2.44	4.12	1.01	183822.00	1.98	3.94
PENNSYLVANIA	1816151.00	15.31	4.91	0.94	523900.00	4.41	4.99	0.94	468512.00	3.95	4.83	0.92	332033.00	2.80	6.06	1.16	289152.00	2.44	6.19
TEXAS	2487690.00	17.48	6.73	1.07	721089.00	5.07	6.76	1.08	657264.00	4.82	6.77	1.08	304388.00	2.15	5.59	0.89	249316.00	1.75	5.34
WASHINGTON	652813.00	16.04	1.79	0.98	206258.00	4.99	1.93	1.06	197253.00	4.77	2.03	1.11	98323.00	2.38	1.79	0.98	66540.00	2.09	1.85
TOTAL	8165572.00	16.60	22.09	1.02	2341840.00	4.76	21.96	1.01	213785.00	4.34	21.98	1.01	1199174.00	2.44	21.60	1.01	1061826.00	2.04	21.45
NATION	34972719.00	16.32			10663731.00	4.71			9705107.00	4.28			5768216.00	2.52	21.55	0.99	4669872.00	2.06	
INDIANA	262401.00	3.69	2.33	0.96	163201.00	2.97	2.38	0.98	138100.00	2.52	2.42	1.00	131999.00	2.40	2.41	0.99	109167.00	1.97	2.32
MARYLAND	172115.00	4.08	1.98	1.07	141427.00	3.35	2.06	1.11	116118.00	2.75	2.03	1.09	104727.00	2.08	1.91	1.03	81809.00	2.01	1.82
MICHIGAN	348315.00	3.76	4.01	0.98	277801.00	3.00	4.05	0.99	226920.00	2.45	3.98	0.97	223704.00	2.44	4.12	1.01	183822.00	1.98	3.94
PENNSYLVANIA	416215.00	3.51	4.80	0.92	330811.00	2.79	4.82	0.92	284324.00	2.40	4.98	0.95	332033.00	2.80	6.06	1.16	289152.00	2.44	6.19
TEXAS	562178.00	3.95	6.48	1.03	437868.00	3.08	6.38	1.02	353987.00	2.50	6.24	0.99	304388.00	2.15	5.59	0.89	249316.00	1.75	5.34
WASHINGTON	178753.00	4.33	2.06	1.13	138715.00	3.36	2.02	1.11	108450.00	2.62	1.90	1.04	98323.00	2.38	1.79	0.98	66540.00	2.09	1.85
TOTAL	1879977.00	3.82	21.67	1.00	1489823.00	3.03	21.71	1.00	1229899.00	2.50	21.55	0.99	1199174.00	2.44	21.60	1.01	1061826.00	2.04	21.45
NATION	8676796.00	3.83			6861509.00	3.03			5768216.00	2.52			5768216.00	2.52	21.55	0.99	4669872.00	2.06	
INDIANA	179714.00	2.36	2.41	0.99	136906.00	2.49	2.40	1.00	131999.00	2.40	2.41	0.99	131999.00	2.40	2.41	0.99	109167.00	1.97	2.32
MARYLAND	107307.00	2.54	1.99	1.07	110853.00	2.63	1.97	1.08	104727.00	2.08	1.91	1.03	104727.00	2.08	1.91	1.03	81809.00	2.01	1.82
MICHIGAN	215594.00	2.33	4.00	0.98	236416.00	2.53	4.21	1.03	223704.00	2.44	4.12	1.01	223704.00	2.44	4.12	1.01	183822.00	1.98	3.94
PENNSYLVANIA	286658.00	2.42	5.32	1.02	329850.00	2.78	5.87	1.12	332033.00	2.80	6.06	1.16	332033.00	2.80	6.06	1.16	289152.00	2.44	6.19
TEXAS	333884.00	2.35	6.20	0.99	328145.00	2.31	5.84	0.93	304388.00	2.15	5.59	0.89	304388.00	2.15	5.59	0.89	249316.00	1.75	5.34
WASHINGTON	97405.00	2.36	1.81	0.99	97453.00	2.36	1.73	0.95	98323.00	2.38	1.79	0.98	98323.00	2.38	1.79	0.98	66540.00	2.09	1.85
TOTAL	1170762.00	2.38	21.73	1.00	1239653.00	2.52	22.05	1.02	1199174.00	2.44	21.60	1.01	1199174.00	2.44	21.60	1.01	1061826.00	2.04	21.45
NATION	5168249.00	2.38			5620670.00	2.48			5481863.00	2.42			5481863.00	2.42	21.55	0.99	4669872.00	2.06	
INDIANA	169167.00	1.97	2.32	0.96	68289.00	1.61	2.26	0.93	144539.00	2.63	2.26	0.93	144539.00	2.63	2.26	0.93	109167.00	1.97	2.32
MARYLAND	81809.00	2.01	1.82	0.98	62877.00	1.49	1.61	0.87	92699.00	2.20	1.45	0.78	104727.00	2.08	1.91	1.03	81809.00	2.01	1.82
MICHIGAN	183822.00	1.98	3.94	0.96	144113.00	1.56	3.89	0.90	229970.00	2.48	3.58	0.88	223704.00	2.44	4.12	1.01	183822.00	1.98	3.94
PENNSYLVANIA	289152.00	2.44	6.19	1.18	235892.00	1.99	6.04	1.15	369952.00	3.12	5.78	1.10	332033.00	2.80	6.06	1.16	289152.00	2.44	6.19
TEXAS	249316.00	1.75	5.34	0.85	212743.00	1.50	5.45	0.87	346160.00	2.43	5.41	0.86	304388.00	2.15	5.59	0.89	249316.00	1.75	5.34
WASHINGTON	66540.00	2.09	1.85	1.02	70295.00	1.70	1.89	0.99	110249.00	2.67	1.72	0.94	98323.00	2.38	1.79	0.98	66540.00	2.09	1.85
TOTAL	1061826.00	2.04	21.45	0.99	814034.00	1.65	20.86	0.96	1293119.00	2.63	20.20	0.93	1199174.00	2.44	21.60	1.01	1061826.00	2.04	21.45
NATION	4669872.00	2.06			3902955.00	1.72			6401960.00	2.63			6401960.00	2.63	21.55	0.99	4669872.00	2.06	

APPENDIX TABLE 2-POPULATION BY SEX BY AGE BY STATE (CONT.)

FEMALE

AGE	STATE	% OF STATE POPULATION CLASS	RATIO OF STATE TO NATIONAL	% OF STATE POPULATION CLASS	RATIO OF STATE TO NATIONAL	% OF STATE POPULATION CLASS	RATIO OF STATE TO NATIONAL	% OF STATE POPULATION CLASS	RATIO OF STATE TO NATIONAL
15-19	INDIANA	16.40	2.54	1.05	261737.00	4.77	2.46	1.01	233096.00
	MARYLAND	15.43	1.83	0.98	199139.00	4.72	1.87	1.00	190425.00
	MICHIGAN	15.28	4.31	1.05	453004.00	4.69	4.25	1.04	407648.00
	PENNSYLVANIA	14.74	4.93	0.94	538915.00	4.53	5.04	0.96	474539.00
	TEXAS	2384603.00	16.75	1.07	699278.00	4.91	6.56	1.04	644790.00
	WASHINGTON	630539.00	15.26	1.78	194284.00	4.70	1.82	1.00	192744.00
TOTAL	7642419.00	15.94	22.10	2344357.00	4.76	22.00	1.01	2148242.00	
NATION	35485744.00	15.66		1055973.00	4.70			9815912.00	4.33
	30-34								
35-39	INDIANA	209156.00	3.81	0.97	168335.00	3.07	2.39	0.98	143447.00
	MARYLAND	182378.00	4.32	1.10	149747.00	3.55	2.11	1.13	119755.00
	MICHIGAN	360654.00	3.87	0.99	286626.00	3.09	4.03	0.99	237452.00
	PENNSYLVANIA	431632.00	3.64	0.93	351472.00	2.96	4.95	0.94	307485.00
	TEXAS	562805.00	3.95	1.01	442361.00	3.11	6.23	0.99	367015.00
	WASHINGTON	175892.00	4.26	1.09	134667.00	3.26	1.90	1.04	105382.00
TOTAL	1921367.00	3.91	21.63	1533728.00	3.12	21.59	0.99	1280716.00	
NATION	8884124.00	3.92		7103793.00	3.14			5961198.00	2.63
	45-49								
50-54	INDIANA	137098.00	2.50	0.99	146394.00	2.67	2.40	0.99	146022.00
	MARYLAND	111592.00	2.65	1.05	116736.00	2.77	1.92	1.03	117953.00
	MICHIGAN	229920.00	2.48	0.99	248971.00	2.69	4.09	1.00	243707.00
	PENNSYLVANIA	313399.00	2.64	1.05	345905.00	3.08	6.01	1.15	380941.00
	TEXAS	347507.00	2.44	0.97	332130.00	2.47	5.78	0.92	337068.00
	WASHINGTON	90668.00	2.32	1.69	101995.00	2.45	1.65	0.91	105663.00
TOTAL	1235584.00	2.51	21.67	1332331.00	2.71	21.86	1.01	1332396.00	
NATION	5701506.00	2.52		6089362.00	2.69			6133391.00	2.71
	60-64								
65-69	INDIANA	126115.00	2.29	0.96	109596.00	2.00	2.25	0.93	243020.00
	MARYLAND	95371.00	2.27	0.95	79416.00	1.88	1.63	0.87	166272.00
	MICHIGAN	209536.00	2.26	0.95	175268.00	1.89	3.59	0.89	363407.00
	PENNSYLVANIA	343829.00	2.90	1.21	301243.00	2.54	6.17	1.18	623906.00
	TEXAS	282213.00	1.98	0.83	263367.00	1.85	5.40	0.86	548891.00
	WASHINGTON	53497.00	2.24	0.94	81625.00	1.96	1.65	0.51	169987.00
TOTAL	1149281.00	2.34	21.21	1009919.00	2.05	20.70	0.95	2109835.00	
NATION	541729.00	2.39		4879526.00	2.15			10364986.00	4.58

APPENDIX TABLE 2-POPULATION BY SEX BY AGE BY STATE (CONT)

	TOTAL MALE-FEMALE	% OF STATE 2 OF NATIONAL POPULATION CLASS	% OF NATIONAL TO NATIONAL 1	RATIO OF STATE 2 TO NATIONAL 1
INDIANA	5490244	100.00	2.42	1.00
MARYLAND	4216975	100.00	1.85	1.00
MICHIGAN	9262078	100.00	4.09	1.00
PENNSYLVANIA	11863895	100.00	5.24	1.00
TEXAS	14279191	100.00	6.28	1.00
WASHINGTON	4132156	100.00	1.82	1.00
TOTAL	49194539	100.00	21.71	1.00
NATION	22656805			

APPENDIX TABLE 3-LICENSED DRIVERS BY SEX BY STATE (MILLIONS)

	MALE N-MILLION	% OF STATE DRIVERS	% OF NATIONAL CLASS	RATIO OF STATE TO NATIONAL	FEMALE M-MILLION	% OF STATE DRIVERS	% OF NATIONAL CLASS	RATIO OF STATE TO NATIONAL
INDIANA	1.82	50.98	2.25	0.98	1.75	49.02	2.35	1.02
MARYLAND	1.48	51.75	1.83	0.99	1.38	48.25	1.85	1.01
MICHIGAN	3.34	52.19	4.12	1.00	3.06	47.81	4.11	1.00
PENNSYLVANIA	3.97	53.15	4.90	1.02	3.50	46.85	4.71	0.98
TEXAS	5.73	52.76	7.07	1.01	5.13	47.24	6.90	0.99
WASHINGTON	1.56	52.35	1.93	1.00	1.42	47.65	1.91	1.00
TOTAL	17.90	52.43	22.10	1.01	16.24	47.57	21.83	0.99
NATION	81.01	52.13			74.38	47.87		

SOURCE: HIGHWAY STATISTICS 1984 PG. 30
HE 5623.A1 USX 1984

APPENDIX TABLE 3B-RATIO OF LICENCED DRIVERS TO PEOPLE
(PEOPLE IN THOUSANDS)

	ALL RESIDENTS	RESIDENTS AGE 15 AND OVER	ALL DRIVERS	DRIVERS PER THOUSAND RESIDENTS	DRIVERS PER THOUSAND RESIDENTS AGE 15+	RATIO STATES/NATION	
						RESIDENTS	AGE 15 + RESIDENTS
INDIANA	5498.00	4249.00	3574337.00	650.00	841.00	2.328	2.304
MARYLAND	4349.00	3473.00	2860835.00	658.00	824.00	1.842	1.883
MICHIGAN	9075.00	7040.00	6392320.00	704.00	908.00	3.843	3.817
PENNSYLVANIA	11901.00	9540.00	7469884.00	628.00	783.00	5.039	5.173
TEXAS	15989.00	12024.00	10855549.00	679.00	903.00	6.770	6.520
WASHINGTON	4349.00	3384.00	2972976.00	684.00	879.00	1.842	1.835
TOTAL	51161.00	39710.00	34125901.00	667.03	859.38	21.664	21.532
NATION	236158.00	184424.00	155391002.00	658.00	843.00	1.000	1.000

SOURCE: HIGHWAY STATISTICS 1984
HE 5623.A1 USX 1984 P.31 AND FARS 1984

APPENDIX TABLE 4 - MOTOR-VEHICLE REGISTRATIONS BY CLASS BY STATE (MILLIONS OF VEHICLES)

	AUTOMOBILES		% OF ALL VEHICLES		RATIO OF STATE TRUCKS		RATIO OF STATE TRUCKS		% OF ALL VEHICLES		RATIO OF STATE TRUCKS		RATIO OF STATE TRUCKS	
	MILLION	% OF ALL VEHICLES IN STATE	% OF ALL VEHICLES IN COUNTRY IN CLASS	% OF ALL VEHICLES IN COUNTRY IN CLASS	% OF ALL VEHICLES IN STATE	% OF ALL VEHICLES IN COUNTRY IN CLASS	% OF ALL VEHICLES IN COUNTRY IN CLASS	% OF ALL VEHICLES IN STATE	% OF ALL VEHICLES IN COUNTRY IN CLASS	% OF ALL VEHICLES IN COUNTRY IN CLASS	% OF ALL VEHICLES IN STATE	% OF ALL VEHICLES IN COUNTRY IN CLASS	% OF ALL VEHICLES IN COUNTRY IN CLASS	% OF ALL VEHICLES IN COUNTRY IN CLASS
INDIANA	2.93	74.27	2.29	0.97	0.02	0.45	3.08	1.30	1.00	25.28	7.62	1.11	1.11	
MARYLAND	2.67	83.58	2.09	1.09	0.01	0.33	1.83	0.95	0.51	16.08	1.35	0.70	0.70	
MICHIGAN	5.07	79.63	3.97	1.04	0.02	0.34	3.70	0.97	1.28	20.03	3.35	0.88	0.88	
PENNSYLVANIA	5.81	81.98	4.54	1.07	0.03	0.38	4.66	1.10	1.25	17.63	3.28	0.77	0.77	
TEXAS	8.42	69.15	6.59	0.90	0.05	0.43	8.68	1.21	3.70	39.42	9.73	1.33	1.33	
WASHINGTON	2.42	70.55	1.89	0.92	0.01	0.32	1.89	0.92	1.00	29.13	2.63	1.27	1.27	
TOTAL	27.32	75.47	21.36	0.98	0.14	0.39	24.03	1.11	8.74	24.14	22.97	1.06	1.06	
NATION	127.87	76.80			0.58	0.35			38.05	72.85				
TOTAL														
INDIANA	3.95	100.00	2.37		1.00									
MARYLAND	3.19	100.00	1.92		1.00									
MICHIGAN	6.37	100.00	3.82		1.00									
PENNSYLVANIA	7.08	100.00	4.25		1.00									
TEXAS	12.17	100.00	7.31		1.00									
WASHINGTON	3.43	100.00	2.06		1.00									
TOTAL	36.19	100.00	21.74		1.00									
NATION	166.50	100.00												

SOURCE: HIGHWAY STATISTICS 1984

PG. 17

U.S. DEPT. OF TRANSPORTATION FHWA

APPENDIX TABLE 5-REGISTERED VEHICLES:DOMESTIC VS IMPORTS (AUTOMOBILES ONLY)

STATE	DOMESTIC	% OF STATE'S % OF NATIONAL AUTOMOBILES CLASS	RATIO OF STATE %:IMPORT TO NATIONAL %	% OF STATE'S % OF NATIONAL AUTOMOBILES CLASS	RATIO OF STATE %:TOTAL TO NATIONAL %	% OF NATIONAL CLASS				
INDIANA	233227.00	88.90	2.65	1.12	291374.00	11.10	1.29	0.54	2624401.00	2.37
MARYLAND	1459985.00	74.76	1.66	0.94	492971.00	25.24	2.18	1.23	1952956.00	1.77
MICHIGAN	4105390.00	90.65	4.67	1.14	423665.00	9.35	1.87	0.46	4529055.00	4.09
PENNSYLVANIA	4493577.00	83.03	5.11	1.04	91822.00	16.97	4.06	0.83	5412199.00	4.89
TEXAS	6347573.00	81.16	7.22	1.05	1285015.00	16.84	5.67	0.82	7432588.00	6.90
WASHINGTON	141241.00	67.04	1.61	0.84	694417.00	32.96	3.07	1.61	2106558.00	1.90
TOTAL	20151893.00	83.07	22.91	1.04	4108044.00	16.93	18.13	0.83	24257957.00	21.93
NATION	87945030.00	79.52	100.00	1.00	22852056.00	20.48	100.00	1.00	110397086.00	100.00

SOURCE:POLK NAPP

REGISTERED VEHICLES:DOMESTIC VS IMPORTS (LIGHT TRUCKS ONLY)

STATE	DOMESTIC	% OF STATE'S % OF NATIONAL LIGHT TRUCKS CLASS	RATIO OF STATE %:IMPORT TO NATIONAL %	% OF STATE'S % OF NATIONAL LIGHT TRUCKS CLASS	RATIO OF STATE %:TOTAL TO NATIONAL %	% OF NATIONAL CLASS				
INDIANA	750939.00	94.36	2.77	1.07	44859.00	5.64	1.21	0.47	795818.00	2.58
MARYLAND	374948.00	89.22	1.38	1.00	5063.00	11.78	1.35	0.98	423011.00	1.38
MICHIGAN	1107094.00	94.58	4.09	1.07	63475.00	5.42	1.71	0.45	1170569.00	3.80
PENNSYLVANIA	1108242.00	93.39	4.09	1.06	78489.00	6.61	2.12	0.55	1186731.00	3.85
TEXAS	2713027.00	91.51	10.02	1.04	251726.00	8.49	6.78	0.70	2846753.00	9.63
WASHINGTON	583921.00	78.83	2.16	0.90	158022.00	21.17	4.23	1.76	740743.00	2.40
TOTAL	6638191.00	91.14	24.51	1.04	645434.00	8.86	17.40	0.74	7283625.00	23.65
NATION	27088837.00	87.95	100.00	1.00	3709967.00	12.05	100.00	1.00	3079804.00	100.00

SOURCE:POLK NAPP

REGISTERED VEHICLES:DOMESTIC VS IMPORTS (TOTAL: AUTO+LIGHT TRUCK)

STATE	DOMESTIC	% OF STATE'S % OF NATIONAL VEHICLES CLASS	RATIO OF STATE %:IMPORT TO NATIONAL %	% OF STATE'S % OF NATIONAL VEHICLES CLASS	RATIO OF STATE %:TOTAL TO NATIONAL %	% OF NATIONAL CLASS				
INDIANA	3084186.00	90.17	2.68	1.11	336233.00	9.83	1.28	0.53	3420419.00	2.42
MARYLAND	1834933.00	77.16	1.59	0.95	543034.00	22.84	2.06	1.22	2377967.00	1.68
MICHIGAN	5212484.00	91.45	4.53	1.12	487140.00	8.55	1.85	0.46	5699624.00	4.03
PENNSYLVANIA	5601819.00	84.89	4.87	1.04	977111.00	15.11	3.78	0.81	6598930.00	4.67
TEXAS	9060600.00	85.50	7.88	1.05	1536741.00	14.50	5.83	0.78	10597341.00	7.49
WASHINGTON	1996062.00	76.10	1.74	0.86	651239.00	29.80	3.33	1.60	2847301.00	2.01
TOTAL	26790084.00	84.94	23.29	1.04	4751498.00	15.06	18.02	0.81	31541582.00	22.31
NATION	115033867.00	81.36	100.00	1.00	26362023.00	18.64	100.00	1.00	141395890.00	100.00

SOURCE:POLK NAPP

APPENDIX TABLE 6-TOP 20 MAKE/MODELS

CHEVROLET	% OF STATE'S % OF NATIONAL RATIO OF STATE % OF NATIONAL RATIO OF STATE % OF NATIONAL RATIO OF STATE		% OF STATE'S % OF NATIONAL RATIO OF STATE % OF NATIONAL RATIO OF STATE		% OF STATE'S % OF NATIONAL RATIO OF STATE % OF NATIONAL RATIO OF STATE		% OF STATE'S % OF NATIONAL RATIO OF STATE % OF NATIONAL RATIO OF STATE					
	VEHICLES	CLASS	VEHICLES	CLASS	VEHICLES	CLASS	VEHICLES	CLASS				
MONTE CARLO	71244.00	2.08	2.82	1.17	75009.00	2.19	2.99	1.24	56399.00	1.65	2.52	1.04
INDIANA	42967.00	1.81	1.70	1.01	36880.00	1.55	1.47	0.87	41312.00	1.85	1.98	1.18
MARYLAND	105370.00	4.18	4.18	1.04	100749.00	1.77	4.02	1.00	97779.00	1.72	4.37	1.08
MICHIGAN	118240.00	4.69	4.69	1.00	118219.00	1.79	4.72	1.01	111968.00	1.70	5.00	1.07
PENNSYLVANIA	234193.00	2.21	9.29	1.24	203730.00	1.92	8.13	1.08	177012.00	1.67	7.91	1.05
TEXAS	31391.00	1.10	1.24	0.62	24985.00	0.88	1.00	0.49	28275.00	0.99	1.26	0.63
WASHINGTON	603405.00	1.91	23.93	1.07	559572.00	1.77	23.33	1.00	515775.00	1.63	23.04	1.03
TOTAL	2521803.00	1.78			2505991.00	1.77			2238681.00	1.58		
CADILLAC	65584.00	2.03	3.15	1.30	61079.00	1.79	3.12	1.29	52999.00	1.53	2.78	1.15
BEVILLE	35481.00	1.49	1.60	0.95	21896.00	0.92	1.12	0.66	32156.00	1.35	1.69	1.00
INDIANA	101248.00	1.78	4.58	1.14	63409.00	1.11	3.24	0.80	87455.00	1.33	4.59	1.14
MARYLAND	98445.00	1.49	4.45	0.95	61796.00	0.94	3.16	0.68	91608.00	1.43	4.96	1.06
MICHIGAN	173788.00	1.64	7.86	1.05	255573.00	2.41	13.05	1.74	157998.00	1.49	8.29	1.11
PENNSYLVANIA	20528.00	0.72	0.93	0.46	28975.00	1.02	1.48	0.73	19188.00	0.67	1.01	0.50
TEXAS	499054.00	1.58	22.57	1.01	492728.00	1.56	25.17	1.13	444403.00	1.41	23.31	1.04
WASHINGTON	221088.00	1.56			1957919.00	1.38			190519.00	1.35		
TOTAL	37818.00	1.11	2.12	0.88	47968.00	1.40	2.74	1.13	57818.00	1.49	3.32	1.37
CADILLAC	29379.00	1.24	1.63	0.98	24545.00	1.03	1.40	0.83	52948.00	2.23	3.04	1.81
BEVILLE	8253.00	1.11	3.55	0.88	69922.00	1.23	3.99	0.99	118793.00	2.08	6.62	1.69
INDIANA	87231.00	1.25	4.62	0.99	68182.00	1.03	3.89	0.83	102878.00	1.55	5.89	1.26
MARYLAND	153425.00	1.45	8.62	1.15	172179.00	1.62	9.82	1.31	85526.00	0.82	4.97	0.66
MICHIGAN	19429.00	0.68	1.09	0.54	19728.00	0.69	1.13	0.56	22051.00	0.77	1.27	0.63
PENNSYLVANIA	38535.00	1.22	21.65	0.97	402524.00	1.28	22.97	1.03	408444.00	1.40	25.31	1.13
TEXAS	178037.00	1.26			1752633.00	1.24			1740660.00	1.23		
WASHINGTON	45738.00	1.34	2.65	1.10	45073.00	1.32	2.72	1.13	39481.00	1.15	2.39	0.99
TOTAL	27582.00	1.16	1.60	0.95	20080.00	0.84	1.21	0.72	32422.00	1.36	1.96	1.17
CADILLAC	71726.00	1.25	4.13	1.02	66529.00	1.17	4.03	1.00	56566.00	0.99	3.42	0.85
BEVILLE	85804.00	1.39	4.98	1.07	46272.00	0.70	2.80	0.60	67460.00	1.02	4.08	0.87
INDIANA	215748.00	2.04	12.52	1.67	322576.00	3.04	19.49	2.60	92574.00	0.87	5.60	0.75
MARYLAND	26884.00	0.94	1.56	0.77	16503.00	0.58	1.00	0.49	48971.00	1.70	2.93	1.46
MICHIGAN	472882.00	1.50	27.43	1.23	517133.00	1.64	31.25	1.40	336974.00	1.07	20.39	0.91
PENNSYLVANIA	1729852.00	1.22			1651825.00	1.17			1652295.00	1.17		
TEXAS												
WASHINGTON												
TOTAL												

APPENDIX TABLE 4-TOP 20 MAKE/MODELS (CONT)

CHEVROLET	% OF STATE'S % OF NATIONAL RATIO OF STATE TO NATIONAL		% OF STATE'S % OF NATIONAL RATIO OF STATE TO NATIONAL		% OF STATE'S % OF NATIONAL RATIO OF STATE TO NATIONAL		% OF STATE'S % OF NATIONAL RATIO OF STATE TO NATIONAL						
	VEHICLES	CLASS	VEHICLES	CLASS	VEHICLES	CLASS	VEHICLES	CLASS					
INDIANA	41094.00	1.20	2.75	1.14	34971.00	1.08	2.52	1.04	36483.00	1.07	2.62	1.08	
MARYLAND	31844.00	1.34	2.13	1.27	29974.00	1.26	2.05	1.22	29508.00	1.24	2.12	1.26	
MICHIGAN	64846.00	1.14	4.35	1.08	52766.00	0.92	3.60	0.89	58614.00	1.03	4.21	1.04	
PENNSYLVANIA	94889.00	1.44	6.36	1.36	89370.00	1.34	6.04	1.29	53407.00	0.81	3.85	0.82	
TEXAS	75283.00	0.71	5.05	0.87	115975.00	1.09	7.87	1.05	138539.00	1.31	9.94	1.33	
WASHINGTON	21532.00	0.76	1.44	0.72	19723.00	0.67	1.35	0.67	19723.00	0.69	1.42	0.70	
TOTAL	329488.00	1.04	22.09	0.99	342719.00	1.09	23.42	1.05	334494.00	1.07	24.15	1.08	
MATION	1491325.00	1.05			1463077.00	1.03			1393268.00	0.98			
FORD		% OF STATE'S % OF NATIONAL RATIO OF STATE TO NATIONAL		% OF STATE'S % OF NATIONAL RATIO OF STATE TO NATIONAL		% OF STATE'S % OF NATIONAL RATIO OF STATE TO NATIONAL		% OF STATE'S % OF NATIONAL RATIO OF STATE TO NATIONAL		% OF STATE'S % OF NATIONAL RATIO OF STATE TO NATIONAL		% OF STATE'S % OF NATIONAL RATIO OF STATE TO NATIONAL	
TRUMBERG		VEHICLES	CLASS	VEHICLES	CLASS	VEHICLES	CLASS	VEHICLES	CLASS	VEHICLES	CLASS	VEHICLES	CLASS
INDIANA	35467.00	1.04	2.58	1.07	30258.00	0.88	2.34	0.97	47011.00	1.37	3.79	1.54	
MARYLAND	23070.00	0.97	1.68	1.00	29549.00	1.24	2.29	1.36	16484.00	0.69	1.33	0.79	
MICHIGAN	63673.00	1.12	4.63	1.15	48494.00	0.85	3.76	0.93	73883.00	1.30	5.95	1.48	
PENNSYLVANIA	53407.00	0.81	3.90	0.84	87945.00	1.33	6.82	1.46	54864.00	0.83	4.42	0.95	
TEXAS	138539.00	1.31	10.08	1.34	79682.00	0.75	6.17	0.82	124332.00	1.17	10.01	1.34	
WASHINGTON	19723.00	0.69	1.43	0.71	16543.00	0.58	1.28	0.64	8653.00	0.30	0.70	0.35	
TOTAL	334099.00	1.06	24.31	1.09	292491.00	0.93	22.67	1.02	323251.00	1.03	26.19	1.17	
MATION	1374313.00	0.97			1290325.00	0.91			1241642.00	0.89			
BUICK		% OF STATE'S % OF NATIONAL RATIO OF STATE TO NATIONAL		% OF STATE'S % OF NATIONAL RATIO OF STATE TO NATIONAL		% OF STATE'S % OF NATIONAL RATIO OF STATE TO NATIONAL		% OF STATE'S % OF NATIONAL RATIO OF STATE TO NATIONAL		% OF STATE'S % OF NATIONAL RATIO OF STATE TO NATIONAL		% OF STATE'S % OF NATIONAL RATIO OF STATE TO NATIONAL	
RESAL		VEHICLES	CLASS	VEHICLES	CLASS	VEHICLES	CLASS	VEHICLES	CLASS	VEHICLES	CLASS	VEHICLES	CLASS
INDIANA	28564.00	0.83	2.46	1.02	31811.00	0.93	2.82	1.17	947828.00	27.71	2.77	1.15	
MARYLAND	17858.00	0.75	1.54	0.91	23248.00	0.98	2.06	1.23	602195.00	25.32	1.76	1.05	
MICHIGAN	51478.00	0.90	4.44	1.10	64309.00	1.16	5.89	1.46	1482372.00	26.01	4.34	1.08	
PENNSYLVANIA	57040.00	0.86	4.92	1.05	78105.00	1.18	6.94	1.49	1624172.00	24.61	4.75	1.02	
TEXAS	88632.00	0.84	7.64	1.02	60272.00	0.57	5.35	0.71	3085716.00	28.93	8.97	1.20	
WASHINGTON	9318.00	0.33	0.80	0.40	22967.00	0.81	2.04	1.01	444610.00	15.62	1.30	0.63	
TOTAL	257910.00	0.80	21.80	0.98	282712.00	0.90	25.11	1.13	8166793.00	25.89	23.89	1.07	
MATION	1160341.00	0.82			1125997.00	0.80			34187598.00	24.18			
TOTAL		% OF STATE'S % OF NATIONAL RATIO OF STATE TO NATIONAL		% OF STATE'S % OF NATIONAL RATIO OF STATE TO NATIONAL		% OF STATE'S % OF NATIONAL RATIO OF STATE TO NATIONAL		% OF STATE'S % OF NATIONAL RATIO OF STATE TO NATIONAL		% OF STATE'S % OF NATIONAL RATIO OF STATE TO NATIONAL		% OF STATE'S % OF NATIONAL RATIO OF STATE TO NATIONAL	
M-MILLION		VEHICLES IN CLASS		VEHICLES IN CLASS		VEHICLES IN CLASS		VEHICLES IN CLASS		VEHICLES IN CLASS		VEHICLES IN CLASS	
INDIANA	3420419.00	100.00	2.42	1.00									
MARYLAND	2377937.00	100.00	1.68	1.00									
MICHIGAN	569624.00	100.00	4.03	1.00									
PENNSYLVANIA	658932.00	100.00	4.67	1.00									
TEXAS	10597341.00	100.00	7.49	1.00									
WASHINGTON	2847301.00	100.00	2.01	1.00									
TOTAL	31541584.00	100.00	72.31	1.00									
MATION	141396540.00	100.00											

SOURCE: PULK DATA 1984

APPENDIX TABLE 7 ANNUAL VEHICLE MILES OF TRAVEL BY FUNCTIONAL CLASS BY STATE

RURAL

STATE	% OF STATE HIGHWAYS		% OF NATION INTERSTATE		RATIO OF STATE TO NATIONAL		% OF STATE HIGHWAYS		% OF NATION STATE HIGHWAYS		RATIO OF STATE TO NATIONAL	
	INTERSTATE	STATE HIGHWAYS	INTERSTATE	STATE HIGHWAYS	TO NATIONAL	TO NATIONAL	PRINCIPAL ARTERY	MINOR ARTERY	PRINCIPAL ARTERY	MINOR ARTERY	TO NATIONAL	TO NATIONAL
INDIANA	4179.00	10.17	2.81	7.60	1.18	3204.00	2.23	0.93	4412.00	10.74	3.22	1.35
IOWA	2054.00	6.48	1.38	7.50	0.75	2377.00	1.65	0.89	2428.00	7.68	1.77	0.96
KENTUCKY	3950.00	6.72	2.66	8.03	0.72	5100.00	3.55	0.96	3710.00	5.84	2.71	0.73
PENNSYLVANIA	6600.00	8.88	4.44	8.56	1.03	6357.00	4.42	1.02	8193.00	11.03	5.99	1.38
TEXAS	10902.00	7.84	7.27	11.20	0.91	15479.00	10.73	1.34	6359.00	4.62	4.65	0.58
WASHINGTON	2653.00	7.75	1.79	8.34	0.69	2858.00	1.99	1.00	2136.00	6.24	1.56	0.78
TOTAL	30238.00	7.90	20.36	9.23	0.91	35323.00	24.57	1.10	27238.00	7.12	19.90	0.69
NATION	146542.00	8.65		8.38		143786.00			134885.00	7.97		
MAJOR COLLECTOR	5777.00	14.06	3.61	3.92	1.51	1611.00	3.69	1.54	1837.00	4.47	2.13	0.89
MINOR COLLECTOR	1935.00	6.10	1.21	2.24	0.66	711.00	1.63	0.89	960.00	3.03	1.12	0.60
STATE HIGHWAYS	6680.00	13.99	5.55	2.49	1.50	1580.00	3.62	0.98	1260.00	1.99	1.46	0.40
INDIANA	5345.00	7.19	3.34	3.70	0.77	2374.00	5.43	1.26	5435.00	7.31	6.32	1.46
KENTUCKY	13091.00	9.79	8.44	1.47	1.05	2031.00	4.65	0.58	4724.00	3.43	5.49	0.68
TEXAS	4267.00	12.46	2.67	5.01	1.34	1715.00	3.92	1.97	494.00	1.44	0.57	0.29
TOTAL	39695.00	10.38	24.82	2.62	1.11	10022.00	22.94	1.03	14710.00	3.65	17.10	0.77
NATION	159908.00	9.31		2.55		43694.00			86034.00	5.01		

URBAN

STATE	% OF STATE HIGHWAYS		% OF NATION INTERSTATE		RATIO OF STATE TO NATIONAL		% OF STATE HIGHWAYS		% OF NATION STATE HIGHWAYS		RATIO OF STATE TO NATIONAL	
	INTERSTATE	STATE HIGHWAYS	INTERSTATE	STATE HIGHWAYS	TO NATIONAL	TO NATIONAL	PRINCIPAL ARTERY	MINOR ARTERY	PRINCIPAL ARTERY	MINOR ARTERY	TO NATIONAL	TO NATIONAL
INDIANA	3648.00	8.88	1.79	1.64	0.75	672.00	0.72	0.30	6775.00	16.49	2.50	1.05
IOWA	5884.00	18.57	2.89	6.74	1.57	2137.00	2.28	1.24	6486.00	20.46	2.39	1.30
KENTUCKY	7210.00	11.36	3.54	3.83	0.96	2430.00	2.59	0.70	12780.00	20.01	4.69	1.27
PENNSYLVANIA	5358.00	7.21	2.63	4.16	0.61	3093.00	3.30	0.76	14951.00	20.12	5.52	1.27
TEXAS	18763.00	13.62	9.22	7.05	1.15	9789.00	10.37	1.29	18046.00	13.10	6.66	0.81
WASHINGTON	5797.00	16.93	2.85	5.82	1.43	1944.00	2.13	1.07	6016.00	17.57	2.72	1.11
TOTAL	46682.00	12.20	22.92	5.24	1.03	20035.00	21.39	0.96	64974.00	16.98	23.98	1.08
NATION	203572.00	11.86		5.45		93645.00			278916.00	15.78		
MAJOR COLLECTOR	4247.00	10.34	2.17	3.41	0.91	1400.00	1.59	0.67	3312.00	8.06	2.26	0.94
MINOR COLLECTOR	3357.00	10.59	1.72	6.90	0.93	1903.00	2.17	1.17	1469.00	4.63	1.00	0.54
STATE HIGHWAYS	8450.00	13.31	4.33	9.74	1.17	6180.00	7.04	1.90	2020.00	3.18	1.38	0.37
INDIANA	7127.00	9.59	3.65	5.45	0.84	4050.00	4.61	0.77	5414.00	7.29	3.69	0.85
KENTUCKY	13388.00	9.72	6.83	4.06	0.85	5398.00	6.38	1.09	19397.00	14.08	13.22	1.65
TEXAS	3897.00	10.79	1.89	5.60	0.95	1919.00	2.19	1.10	704.00	2.06	0.48	0.24
TOTAL	40246.00	10.53	20.61	5.50	0.92	21030.00	23.98	1.08	32315.00	8.45	22.03	0.99
NATION	193329.00	11.38		5.11		87788.00			146669.00	8.54		

APPENDIX TABLE 7 ANNUAL VEHICLE MILES OF TRAVEL
BY FUNCTIONAL CLASS BY STATE (CONT)

TOTAL MILEAGE	URBAN		SUBURBAN		RURAL		TOTAL		TOTALS	
	% OF STATE HIGHWAYS	% OF MATION BY STATE	% OF STATE HIGHWAYS	% OF MATION BY STATE	% OF STATE HIGHWAYS	% OF MATION BY STATE	% OF STATE HIGHWAYS	% OF MATION BY STATE	% OF STATE HIGHWAYS	RATIO OF STATE TO NATIONAL
INDIANA	100.00	2.39	100.00	2.92	100.00	1.00	100.00	1.00	100.00	2.01
MARYLAND	100.00	1.65	100.00	1.46	100.00	1.00	100.00	1.00	100.00	2.13
MICHIGAN	100.00	3.70	100.00	3.41	100.00	1.00	100.00	1.00	100.00	3.91
PENNSYLVANIA	100.00	4.33	100.00	4.77	100.00	1.00	100.00	1.00	100.00	4.01
TEXAS	100.00	8.02	100.00	7.35	100.00	1.00	100.00	1.00	100.00	8.51
WASHINGTON	100.00	1.99	100.00	1.96	100.00	1.00	100.00	1.00	100.00	0.92
TOTAL	382558.00	22.28	100.00	21.87	100.00	1.00	100.00	1.00	100.00	27.59
NATION	1716748.00		100.00		100.00		100.00		100.00	

SOURCE: HIGHWAY STATISTICS 1981 PG. 176
U.S. DEPT. OF TRANSPORTATION FHWA

APPENDIX TABLE B ROAD MILEAGE BY FUNCTIONAL CLASS BY STATE (CONT)

TOTAL MILEAGE	% OF STATE HIGHWAYS	% OF NATION BY STATE	RURAL		URBAN		% OF STATE HIGHWAYS BY STATE	% OF NATION BY STATE	RATIO OF STATE TO NATIONAL	RATIO OF STATE TO NATIONAL
			% OF STATE HIGHWAYS	% OF NATION	% OF STATE HIGHWAYS	% OF NATION				
INDIANA	91567.00	100.00	2.35	1.00	73898.00	100.00	2.30	1.00	17689.00	2.62
MARYLAND	27425.00	100.00	0.70	1.00	17324.00	100.00	0.54	1.00	10101.00	1.50
MICHIGAN	117541.00	100.00	3.02	1.00	92311.00	100.00	2.87	1.00	25230.00	3.74
PENNSYLVANIA	115879.00	100.00	2.98	1.00	87059.00	100.00	2.70	1.00	28820.00	4.28
TEXAS	277803.00	100.00	7.14	1.00	211938.00	100.00	6.59	1.00	65865.00	9.78
WASHINGTON	80719.00	100.00	2.07	1.00	65681.00	100.00	2.04	1.00	15038.00	0.02
TOTAL	710936.00	100.00	18.27	1.00	548211.00	100.00	17.03	1.00	162725.00	21.15
NATION	3891781.00	100.00			3218096.00	100.00			673685.00	

SOURCE: HIGHWAY STATISTICS 1984 PG. 176
U.S. DEPT. OF TRANSPORTATION FHWA

APPENDIX TABLE 9-ROAD MILEAGE BY STATE

RURAL												
STATE	FLEXIBLE	% OF STATE HIGHWAYS	% OF NATION	RATIO OF STATE TO NATIONAL	% OF STATE HIGHWAYS	% OF NATION	RATIO OF STATE TO NATIONAL	% OF STATE HIGHWAYS	% OF NATION	RATIO OF STATE TO NATIONAL		
INDIANA	8162.00	26.20	1.96	0.76	1206.00	3.87	2.79	1.09	13551.00	43.51	7.14	2.76
MARYLAND	4190.00	46.76	1.00	1.35	361.00	4.03	0.84	1.12	1052.00	11.74	0.55	0.74
MICHIGAN	5194.00	32.89	1.24	0.37	1433.00	3.56	3.32	0.99	17161.00	42.60	9.04	2.70
PENNSYLVANIA	15314.00	43.32	3.67	1.25	2459.00	6.96	5.70	1.94	5549.00	15.70	2.92	1.00
TEXAS	18923.00	21.98	4.53	0.63	1629.00	1.89	3.78	0.53	4222.00	4.90	2.22	0.31
WASHINGTON	9021.00	38.53	2.16	1.11	573.00	2.45	1.33	0.68	6892.00	29.43	3.63	1.07
TOTAL	60804.00	26.99	14.57	0.78	7461.00	3.40	17.76	0.95	48430.00	21.50	25.52	1.36
NATION	417258.00	34.68			43145.00	3.59			169743.00	15.77		
TOTAL-RURAL												
STATE	LOW-TYPE	% OF STATE HIGHWAYS	% OF NATION	RATIO OF STATE TO NATIONAL	% OF STATE HIGHWAYS	% OF NATION	RATIO OF STATE TO NATIONAL	% OF STATE HIGHWAYS	% OF NATION	RATIO OF STATE TO NATIONAL		
INDIANA	677.00	2.17	0.39	0.15	1585.00	5.02	0.94	0.36	25164.00	80.77	2.54	0.98
MARYLAND	278.00	3.10	0.16	0.21	74.00	0.83	0.04	0.06	5955.00	64.45	0.60	0.81
MICHIGAN	4107.00	10.19	2.35	0.70	3734.00	9.27	2.23	0.67	31629.00	78.51	3.19	0.95
PENNSYLVANIA	2444.00	6.91	1.40	0.48	347.00	0.98	0.21	0.07	26113.00	73.87	2.63	0.90
TEXAS	45306.00	52.62	25.97	3.63	572.00	0.61	0.31	0.04	70602.00	82.01	7.12	0.99
WASHINGTON	178.00	0.76	0.10	0.05	1973.00	8.43	1.18	0.61	18637.00	79.60	1.88	0.97
TOTAL	52990.00	23.52	30.37	1.62	8215.00	3.65	4.91	0.76	178100.00	79.07	17.95	0.96
NATION	174670.00	14.50			167291.00	13.91			991907.00	82.45		
URBAN												
STATE	FLEXIBLE	% OF STATE HIGHWAYS	% OF NATION	RATIO OF STATE TO NATIONAL	% OF STATE HIGHWAYS	% OF NATION	RATIO OF STATE TO NATIONAL	% OF STATE HIGHWAYS	% OF NATION	RATIO OF STATE TO NATIONAL		
INDIANA	2020.00	6.48	1.50	0.58	644.00	2.07	2.34	0.90	3215.00	10.32	9.20	3.55
MARYLAND	2465.00	27.73	1.84	2.47	306.00	3.41	1.11	1.49	208.00	2.32	0.59	0.80
MICHIGAN	3740.00	9.33	2.78	0.83	1871.00	4.64	6.80	2.03	2460.00	6.11	7.04	2.10
PENNSYLVANIA	6833.00	18.76	4.91	1.67	1200.00	3.39	4.36	1.48	1276.00	3.47	3.51	1.19
TEXAS	8437.00	9.80	6.24	0.87	2868.00	3.45	10.79	1.51	2259.00	2.62	6.46	0.90
WASHINGTON	3094.00	13.21	2.29	1.18	476.00	2.03	1.73	0.89	1164.00	4.97	3.33	1.71
TOTAL	26429.00	11.73	19.56	1.04	7465.00	3.31	27.13	1.45	10532.00	4.68	30.12	1.61
NATION	135095.00	11.23			27517.00	2.29			34961.00	2.91		

APPENDIX TABLE 10-ALL MOTOR VEHICLE FATALITIES BY SEX BY AGE BY STATE

ICOL 1)	(2)	(3)	(4)	(5)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
TABLE													
-19													
FATALITIES CLASS													
INDIANA	139.00	15.03	2.16	1.03	139.00	15.03	2.21	1.06	93.00	10.05	2.15	1.03	
MARYLAND	76.00	12.13	1.21	0.83	102.00	15.86	1.62	1.11	56.00	6.71	1.30	0.89	
RICHIGAN	252.00	16.46	3.92	1.13	196.00	12.80	3.11	0.90	195.00	9.47	3.36	0.97	
PENNSYLVANIA	253.00	14.77	3.96	1.02	220.00	12.74	3.49	0.89	170.00	9.84	3.94	1.01	
TEXAS	573.00	14.65	6.91	1.01	600.00	15.34	9.53	1.08	418.00	10.69	9.60	1.10	
WASHINGTON	168.00	14.21	1.65	0.98	166.00	14.21	1.68	1.00	62.00	6.31	1.44	0.85	
TOTAL	1403.00	14.79	21.82	1.02	1363.00	14.37	21.64	1.01	944.00	9.95	21.87	1.02	
NATION													
6431.00	14.53	6779.00	14.23		4317.00	9.76							
30-34													
FATALITIES CLASS													
INDIANA	65.00	7.03	2.14	1.02	38.00	4.11	1.82	0.87	35.00	3.78	2.26	1.09	
MARYLAND	50.00	7.78	1.64	1.13	24.00	3.73	1.15	0.79	26.00	4.04	1.68	1.16	
RICHIGAN	111.00	7.25	3.65	1.05	64.00	4.18	3.06	0.89	54.00	3.46	3.62	1.04	
PENNSYLVANIA	121.00	7.01	3.98	1.02	80.00	4.63	3.83	0.98	70.00	4.05	4.32	1.16	
TEXAS	293.00	7.49	9.63	1.09	169.00	4.30	8.05	0.91	132.00	3.39	8.52	0.96	
WASHINGTON	48.00	6.43	1.59	0.94	32.00	4.29	1.53	0.91	31.00	4.16	2.00	1.19	
TOTAL	688.00	7.25	22.62	1.06	406.00	4.28	19.44	0.91	350.00	3.69	22.60	1.05	
NATION													
3041.00	6.87	2088.00	4.72		1519.00	3.50							
45-49													
FATALITIES CLASS													
INDIANA	21.00	2.27	1.76	0.84	31.00	3.35	2.76	1.32	22.00	2.38	2.07	0.99	
MARYLAND	18.00	2.80	1.51	1.04	24.00	3.73	2.14	1.47	14.00	2.18	1.32	0.91	
RICHIGAN	44.00	2.87	3.69	1.07	26.00	1.70	2.32	0.87	31.00	2.02	2.92	0.84	
PENNSYLVANIA	42.00	2.43	3.52	0.90	46.00	2.66	4.10	1.03	41.00	2.37	3.86	0.99	
TEXAS	106.00	2.71	8.68	1.00	92.00	2.35	8.20	0.93	103.00	2.63	9.71	1.10	
WASHINGTON	21.00	2.82	1.76	1.04	22.00	2.95	1.96	1.16	14.00	1.88	1.32	0.78	
TOTAL	252.00	2.66	21.12	0.99	241.00	2.54	21.48	1.00	225.00	2.37	21.21	0.99	
NATION													
1193.00	2.70	1122.00	2.54		1051.00	2.40							
60-64													
FATALITIES CLASS													
INDIANA	13.00	1.40	1.24	0.59	19.00	2.05	2.07	0.99	44.00	4.76	1.78	0.85	
MARYLAND	18.00	2.80	1.72	1.18	4.00	0.82	0.44	0.30	41.00	6.38	1.66	1.14	
RICHIGAN	39.00	2.48	3.63	1.05	33.00	2.16	3.59	1.04	80.00	5.23	3.23	0.93	
PENNSYLVANIA	39.00	2.26	3.73	0.96	48.00	2.78	5.23	1.34	88.00	5.10	3.55	0.91	
TEXAS	96.00	2.45	9.18	1.04	85.00	2.17	9.26	1.05	201.00	5.14	8.12	0.92	
WASHINGTON	22.00	2.95	2.10	1.25	12.00	1.61	1.31	0.78	35.00	4.69	1.41	0.80	
TOTAL	276.00	2.39	21.61	1.01	201.00	2.12	21.90	1.02	489.00	5.16	19.75	0.92	
NATION													
1046.00	2.36	918.00	2.07		2476.00	5.60							

APPENDIX TABLE 10-ALL MOTOR VEHICLE FATALITIES BY SEX BY AGE BY STATE (CONT)

TOTAL		% OF STATE		% OF NATIONAL		RATIO OF STATE	
FATALITIES CLASS		FATALITIES CLASS		FATALITIES CLASS		TO NATIONAL	
INDIANA	659.00	71.24	2.09	1.00			
MARYLAND	455.00	70.76	1.45	0.99			
MICHIGAN	1076.00	70.28	3.41	0.99			
PENNSYLVANIA	1220.00	70.64	3.87	0.99			
TEXAS	2867.00	73.31	9.09	1.03			
WASHINGTON	511.00	60.50	1.62	0.96			
TOTAL	6788.00	71.58	21.52	1.00			
NATION	31541.00	71.28					

SOURCE: FARS

FEMALE

-19		% OF STATE		% OF NATIONAL		RATIO OF STATE	
FATALITIES CLASS		FATALITIES CLASS		FATALITIES CLASS		TO NATIONAL	
INDIANA	68.00	7.35	2.31	1.11	39.00	4.22	2.20
MARYLAND	42.00	6.53	1.43	0.98	33.00	5.13	1.86
MICHIGAN	118.00	7.71	4.01	1.16	47.00	3.07	2.65
PENNSYLVANIA	100.00	5.79	3.40	0.87	72.00	4.17	4.06
TEXAS	265.00	6.78	9.01	1.02	157.00	4.01	8.66
WASHINGTON	51.00	6.84	1.73	1.03	42.00	5.63	2.37
TOTAL	644.00	6.79	21.89	1.02	390.00	4.11	22.01
NATION	2942.00	6.65			1772.00	4.00	

30-34		% OF STATE		% OF NATIONAL		RATIO OF STATE	
FATALITIES CLASS		FATALITIES CLASS		FATALITIES CLASS		TO NATIONAL	
INDIANA	13.00	1.40	1.36	0.65	17.00	1.84	2.17
MARYLAND	13.00	2.02	1.36	0.94	11.00	1.71	1.40
MICHIGAN	31.00	3.24	2.02	0.94	32.00	2.09	4.09
PENNSYLVANIA	45.00	2.61	4.71	1.21	34.00	1.97	4.34
TEXAS	81.00	2.07	8.47	0.96	62.00	1.58	7.92
WASHINGTON	20.00	2.68	2.09	1.24	23.00	3.08	2.94
TOTAL	203.00	2.14	21.23	0.99	179.00	1.89	22.86
NATION	956.00	2.16			783.00	1.77	

45-49		% OF STATE		% OF NATIONAL		RATIO OF STATE	
FATALITIES CLASS		FATALITIES CLASS		FATALITIES CLASS		TO NATIONAL	
INDIANA	9.00	0.97	1.80	0.86	11.00	1.19	2.72
MARYLAND	7.00	1.09	1.40	0.96	11.00	1.71	2.22
MICHIGAN	23.00	1.50	4.60	1.33	15.00	0.98	3.02
PENNSYLVANIA	17.00	0.98	3.40	0.87	17.00	0.98	3.43
TEXAS	41.00	1.05	6.20	0.93	40.00	1.02	8.06
WASHINGTON	6.00	0.80	1.20	0.71	4.00	0.54	0.81
TOTAL	103.00	1.09	20.60	0.96	98.00	1.03	19.76
NATION	500.00	1.13			496.00	1.12	

20-24		% OF STATE		% OF NATIONAL		RATIO OF STATE	
FATALITIES CLASS		FATALITIES CLASS		FATALITIES CLASS		TO NATIONAL	
INDIANA	1.05	1.28	2.49	1.05	23.00	2.49	1.93
MARYLAND	1.26	1.50	2.33	1.26	15.00	2.33	1.26
MICHIGAN	4.00	4.00	2.61	3.35	40.00	2.61	3.35
PENNSYLVANIA	4.00	4.00	2.32	3.35	40.00	2.32	3.35
TEXAS	106.00	106.00	2.71	8.89	106.00	2.71	8.89
WASHINGTON	1.41	1.90	2.55	1.59	19.00	2.55	1.59
TOTAL	116.00	116.00	2.56	20.37	20.37	2.56	20.37
NATION	1193.00	2.70			1193.00	2.70	

60-64 FATALITIES CLASS									
	FATALITIES	% OF STATE	% OF NATIONAL	RATIO OF STATE TO NATIONAL	FATALITIES CLASS	% OF STATE	% OF NATIONAL	RATIO OF STATE TO NATIONAL	FATALITIES CLASS
INDIANA	14.00	1.51	2.46	1.18	9.00	0.97	1.68	0.80	43.00
MARYLAND	5.00	0.78	0.68	0.61	5.00	0.78	0.93	0.64	34.00
MICHIGAN	22.00	1.40	3.87	1.12	23.00	1.50	4.30	1.24	61.00
PENNSYLVANIA	30.00	1.74	5.28	1.35	25.00	1.45	4.67	1.20	76.00
TEXAS	39.00	1.00	6.87	0.78	48.00	1.23	8.97	1.01	116.00
WASHINGTON	11.00	1.47	1.94	1.15	12.00	1.61	2.24	1.33	28.00
TOTAL	121.00	1.28	21.30	0.99	122.00	1.29	22.60	1.06	358.00
NATION	548.00	1.78			535.00	1.21			1817.00
TOTAL N-MILLION FATALITIES CLASS									
		% OF STATE	% OF NATIONAL	RATIO OF STATE TO NATIONAL					
INDIANA	266.00	28.76	2.09	1.00					
MARYLAND	188.00	29.74	1.49	1.07					
MICHIGAN	455.00	29.72	3.58	1.03					
PENNSYLVANIA	507.00	29.36	3.99	1.02					
TEXAS	1044.00	26.69	8.21	0.93					
WASHINGTON	235.00	31.50	1.85	1.10					
TOTAL	2695.00	28.42	21.21	0.99					
NATION	12709.00	78.72							

SOURCE: FARS

APPENDIX TABLE 11-DRIVER FATALITIES BY SEX BY AGE BY STATE

(COL 1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
MALE														
-19														
FATALITIES	% OF STATE'S	% OF NATIONAL	FATALITIES	% OF STATE'S	% OF NATIONAL	FATALITIES	% OF STATE'S	% OF NATIONAL	FATALITIES	% OF STATE'S	% OF NATIONAL	FATALITIES	% OF STATE'S	% OF NATIONAL
CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS
INDIANA	64.00	10.88	2.26	0.99	107.00	18.20	2.43	1.06	69.00	11.73	2.18	0.95		
MARYLAND	41.00	11.26	1.45	1.02	71.00	20.05	1.66	1.17	35.00	9.62	0.78	0.98		
RICHIGAN	104.00	11.72	3.68	1.06	144.00	16.23	3.27	0.94	107.00	12.06	3.39	1.01		
PENNSYLVANIA	99.00	9.93	3.50	0.90	161.00	16.15	3.66	0.94	124.00	12.44	3.93	1.01		
TEXAS	253.00	11.24	9.06	1.02	405.00	17.79	9.20	1.03	299.00	13.13	9.46	1.04		
WASHINGTON	47.00	10.49	1.66	0.95	75.00	16.74	1.70	0.97	46.00	10.27	1.46	0.83		
TOTAL	611.00	10.99	21.62	0.99	945.00	17.35	21.93	1.01	480.00	12.23	21.53	0.99		
NATION														
2826.00	11.04		4400.00	17.20		3159.00	12.33							
-20-34														
FATALITIES	% OF STATE'S	% OF NATIONAL	FATALITIES	% OF STATE'S	% OF NATIONAL	FATALITIES	% OF STATE'S	% OF NATIONAL	FATALITIES	% OF STATE'S	% OF NATIONAL	FATALITIES	% OF STATE'S	% OF NATIONAL
CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS
INDIANA	50.00	8.50	2.23	0.97	31.00	5.27	2.00	0.87	28.00	4.76	2.58	1.12		
MARYLAND	37.00	10.16	1.65	1.16	17.00	4.67	1.10	0.77	17.00	4.67	1.57	1.10		
RICHIGAN	62.00	9.24	3.66	1.06	63.00	4.85	2.77	0.80	39.00	4.40	3.60	1.04		
PENNSYLVANIA	91.00	9.13	4.06	1.04	62.00	6.22	4.00	1.03	52.00	5.22	4.80	1.23		
TEXAS	210.00	9.22	9.38	1.05	125.00	5.49	8.06	0.91	90.00	3.95	8.30	0.93		
WASHINGTON	35.00	7.81	1.56	0.89	26.00	5.80	1.68	0.96	19.00	4.24	1.75	1.00		
TOTAL	595.00	9.08	22.35	1.04	304.00	5.47	19.61	0.90	245.00	4.41	22.60	1.04		
NATION														
2239.00	8.75		1550.00	6.06		1084.00	4.24							
-35-49														
FATALITIES	% OF STATE'S	% OF NATIONAL	FATALITIES	% OF STATE'S	% OF NATIONAL	FATALITIES	% OF STATE'S	% OF NATIONAL	FATALITIES	% OF STATE'S	% OF NATIONAL	FATALITIES	% OF STATE'S	% OF NATIONAL
CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS
INDIANA	18.00	3.06	2.20	0.96	21.00	3.37	2.78	1.21	14.00	2.38	2.02	0.88		
MARYLAND	11.00	3.02	1.35	0.95	16.00	4.40	2.12	1.49	12.00	3.30	1.73	1.22		
RICHIGAN	31.00	3.49	3.79	1.09	18.00	1.80	2.12	0.61	21.00	2.37	3.03	0.87		
PENNSYLVANIA	29.00	2.91	3.53	0.91	29.00	2.91	3.84	0.99	28.00	2.81	4.04	1.04		
TEXAS	75.00	3.29	9.18	1.03	54.00	2.37	7.15	0.60	66.00	2.90	9.52	1.07		
WASHINGTON	15.00	3.35	1.64	1.05	19.00	4.24	2.52	1.44	8.00	1.79	1.15	0.66		
TOTAL	179.00	3.22	21.91	1.01	155.00	2.79	20.53	0.94	149.00	2.68	21.50	0.99		
NATION														
817.00	3.19		753.00	2.95		653.00	2.71							
-50-64														
FATALITIES	% OF STATE'S	% OF NATIONAL	FATALITIES	% OF STATE'S	% OF NATIONAL	FATALITIES	% OF STATE'S	% OF NATIONAL	FATALITIES	% OF STATE'S	% OF NATIONAL	FATALITIES	% OF STATE'S	% OF NATIONAL
CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS
INDIANA	12.00	2.04	1.83	0.60	14.00	2.38	2.34	1.02	23.00	3.91	1.75	0.76		
MARYLAND	9.00	2.47	1.37	0.97	4.00	1.10	0.67	0.47	18.00	4.94	1.37	0.76		
RICHIGAN	26.00	2.93	3.97	1.14	26.00	2.93	4.35	1.23	49.00	5.52	3.73	1.68		
PENNSYLVANIA	22.00	2.21	3.36	0.86	35.00	3.51	5.85	1.50	49.00	4.91	3.73	0.96		
TEXAS	63.00	2.77	9.62	1.08	55.00	2.41	9.20	1.03	128.00	5.53	9.60	1.00		
WASHINGTON	18.00	4.02	2.75	1.57	10.00	2.23	1.67	0.96	24.00	5.36	1.83	1.04		
TOTAL	150.00	2.70	22.90	1.05	144.00	2.59	24.08	1.11	289.00	5.20	22.03	1.01		
NATION														
655.00	2.56		598.00	2.34		1312.00	5.13							

APPENDIX TABLE 11-DRIVER FATALITIES BY SEX BY AGE BY STATE (CONT)

TOTAL		% OF STATE'S % OF NATIONAL		RATIO OF STATE %		TO NATIONAL %	
FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS
INDIANA	451.00	76.70	2.24	0.98			
MARYLAND	290.00	79.67	1.44	1.01			
MICHIGAN	688.00	77.56	3.42	0.99			
PENNSYLVANIA	781.00	78.33	3.89	1.00			
TEXAS	1824.00	80.11	9.08	1.02			
WASHINGTON	312.00	76.34	1.70	0.97			
TOTAL	4376.00	78.89	21.78	1.00			
NATION	20688.00	78.51					
SOURCE: FADS							
FEMALE							
-19		% OF STATE'S % OF NATIONAL		RATIO OF STATE %		TO NATIONAL %	
FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS
INDIANA	26.00	4.42	3.51	1.53	24.00	4.08	2.51
MARYLAND	13.00	3.57	1.75	1.23	15.00	4.12	1.57
MICHIGAN	28.00	3.16	3.78	1.09	31.00	3.49	3.25
PENNSYLVANIA	20.00	2.01	2.70	0.89	37.00	3.71	3.07
TEXAS	48.00	2.02	6.21	0.70	87.00	3.82	9.11
WASHINGTON	12.00	2.68	1.62	0.92	25.00	5.58	2.62
TOTAL	145.00	2.61	19.57	0.90	219.00	3.94	22.93
NATION	741.00	2.90			955.00	3.73	
30-34		% OF STATE'S % OF NATIONAL		RATIO OF STATE %		TO NATIONAL %	
FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS
INDIANA	7.00	1.19	1.27	0.35	12.00	2.04	2.53
MARYLAND	5.00	1.37	0.91	0.84	8.00	2.20	1.68
MICHIGAN	17.00	1.92	3.10	0.89	17.00	3.58	1.63
PENNSYLVANIA	27.00	2.71	4.92	1.26	21.00	2.11	4.42
TEXAS	43.00	1.89	7.83	0.88	45.00	1.98	9.47
WASHINGTON	10.00	2.23	1.82	1.04	15.00	3.35	3.16
TOTAL	109.00	1.96	19.85	0.91	118.00	2.12	24.84
NATION	549.00	2.15			473.00	1.86	
45-49		% OF STATE'S % OF NATIONAL		RATIO OF STATE %		TO NATIONAL %	
FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS
INDIANA	5.00	0.85	1.82	0.79	8.00	1.36	3.42
MARYLAND	2.00	0.55	0.73	0.51	3.00	0.82	1.28
MICHIGAN	14.00	1.58	5.11	1.07	6.00	0.88	2.56
PENNSYLVANIA	7.00	0.70	2.55	0.66	12.00	1.20	5.13
TEXAS	22.00	0.97	8.03	0.90	19.00	0.83	8.12
WASHINGTON	4.00	0.89	1.46	0.83	2.00	0.45	0.85
TOTAL	54.00	0.97	19.71	0.91	50.00	0.90	21.37
NATION	274.00	1.07			234.00	0.91	
50-54		% OF STATE'S % OF NATIONAL		RATIO OF STATE %		TO NATIONAL %	
FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS
INDIANA	3.00	0.51	1.01	0.35	5.00	0.82	1.01
MARYLAND	2.00	0.55	0.73	0.51	3.00	0.82	1.28
MICHIGAN	14.00	1.58	5.11	1.07	6.00	0.88	2.56
PENNSYLVANIA	7.00	0.70	2.55	0.66	12.00	1.20	5.13
TEXAS	22.00	0.97	8.03	0.90	19.00	0.83	8.12
WASHINGTON	4.00	0.89	1.46	0.83	2.00	0.45	0.85
TOTAL	54.00	0.97	19.71	0.91	50.00	0.90	21.37
NATION	274.00	1.07			234.00	0.91	
55-59		% OF STATE'S % OF NATIONAL		RATIO OF STATE %		TO NATIONAL %	
FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS
INDIANA	3.00	0.51	1.01	0.35	5.00	0.82	1.01
MARYLAND	2.00	0.55	0.73	0.51	3.00	0.82	1.28
MICHIGAN	14.00	1.58	5.11	1.07	6.00	0.88	2.56
PENNSYLVANIA	7.00	0.70	2.55	0.66	12.00	1.20	5.13
TEXAS	22.00	0.97	8.03	0.90	19.00	0.83	8.12
WASHINGTON	4.00	0.89	1.46	0.83	2.00	0.45	0.85
TOTAL	54.00	0.97	19.71	0.91	50.00	0.90	21.37
NATION	274.00	1.07			234.00	0.91	
60-64		% OF STATE'S % OF NATIONAL		RATIO OF STATE %		TO NATIONAL %	
FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS
INDIANA	3.00	0.51	1.01	0.35	5.00	0.82	1.01
MARYLAND	2.00	0.55	0.73	0.51	3.00	0.82	1.28
MICHIGAN	14.00	1.58	5.11	1.07	6.00	0.88	2.56
PENNSYLVANIA	7.00	0.70	2.55	0.66	12.00	1.20	5.13
TEXAS	22.00	0.97	8.03	0.90	19.00	0.83	8.12
WASHINGTON	4.00	0.89	1.46	0.83	2.00	0.45	0.85
TOTAL	54.00	0.97	19.71	0.91	50.00	0.90	21.37
NATION	274.00	1.07			234.00	0.91	
65-69		% OF STATE'S % OF NATIONAL		RATIO OF STATE %		TO NATIONAL %	
FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS
INDIANA	3.00	0.51	1.01	0.35	5.00	0.82	1.01
MARYLAND	2.00	0.55	0.73	0.51	3.00	0.82	1.28
MICHIGAN	14.00	1.58	5.11	1.07	6.00	0.88	2.56
PENNSYLVANIA	7.00	0.70	2.55	0.66	12.00	1.20	5.13
TEXAS	22.00	0.97	8.03	0.90	19.00	0.83	8.12
WASHINGTON	4.00	0.89	1.46	0.83	2.00	0.45	0.85
TOTAL	54.00	0.97	19.71	0.91	50.00	0.90	21.37
NATION	274.00	1.07			234.00	0.91	
70-74		% OF STATE'S % OF NATIONAL		RATIO OF STATE %		TO NATIONAL %	
FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS
INDIANA	3.00	0.51	1.01	0.35	5.00	0.82	1.01
MARYLAND	2.00	0.55	0.73	0.51	3.00	0.82	1.28
MICHIGAN	14.00	1.58	5.11	1.07	6.00	0.88	2.56
PENNSYLVANIA	7.00	0.70	2.55	0.66	12.00	1.20	5.13
TEXAS	22.00	0.97	8.03	0.90	19.00	0.83	8.12
WASHINGTON	4.00	0.89	1.46	0.83	2.00	0.45	0.85
TOTAL	54.00	0.97	19.71	0.91	50.00	0.90	21.37
NATION	274.00	1.07			234.00	0.91	
75-79		% OF STATE'S % OF NATIONAL		RATIO OF STATE %		TO NATIONAL %	
FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS
INDIANA	3.00	0.51	1.01	0.35	5.00	0.82	1.01
MARYLAND	2.00	0.55	0.73	0.51	3.00	0.82	1.28
MICHIGAN	14.00	1.58	5.11	1.07	6.00	0.88	2.56
PENNSYLVANIA	7.00	0.70	2.55	0.66	12.00	1.20	5.13
TEXAS	22.00	0.97	8.03	0.90	19.00	0.83	8.12
WASHINGTON	4.00	0.89	1.46	0.83	2.00	0.45	0.85
TOTAL	54.00	0.97	19.71	0.91	50.00	0.90	21.37
NATION	274.00	1.07			234.00	0.91	
80-84		% OF STATE'S % OF NATIONAL		RATIO OF STATE %		TO NATIONAL %	
FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS
INDIANA	3.00	0.51	1.01	0.35	5.00	0.82	1.01
MARYLAND	2.00	0.55	0.73	0.51	3.00	0.82	1.28
MICHIGAN	14.00	1.58	5.11	1.07	6.00	0.88	2.56
PENNSYLVANIA	7.00	0.70	2.55	0.66	12.00	1.20	5.13
TEXAS	22.00	0.97	8.03	0.90	19.00	0.83	8.12
WASHINGTON	4.00	0.89	1.46	0.83	2.00	0.45	0.85
TOTAL	54.00	0.97	19.71	0.91	50.00	0.90	21.37
NATION	274.00	1.07			234.00	0.91	
85-89		% OF STATE'S % OF NATIONAL		RATIO OF STATE %		TO NATIONAL %	
FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS
INDIANA	3.00	0.51	1.01	0.35	5.00	0.82	1.01
MARYLAND	2.00	0.55	0.73	0.51	3.00	0.82	1.28
MICHIGAN	14.00	1.58	5.11	1.07	6.00	0.88	2.56
PENNSYLVANIA	7.00	0.70	2.55	0.66	12.00	1.20	5.13
TEXAS	22.00	0.97	8.03	0.90	19.00	0.83	8.12
WASHINGTON	4.00	0.89	1.46	0.83	2.00	0.45	0.85
TOTAL	54.00	0.97	19.71	0.91	50.00	0.90	21.37
NATION	274.00	1.07			234.00	0.91	
90-94		% OF STATE'S % OF NATIONAL		RATIO OF STATE %		TO NATIONAL %	
FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS
INDIANA	3.00	0.51	1.01	0.35	5.00	0.82	1.01
MARYLAND	2.00	0.55	0.73	0.51	3.00	0.82	1.28
MICHIGAN	14.00	1.58	5.11	1.07	6.00	0.88	2.56
PENNSYLVANIA	7.00	0.70	2.55	0.66	12.00	1.20	5.13
TEXAS	22.00	0.97	8.03	0.90	19.00	0.83	8.12
WASHINGTON	4.00	0.89	1.46	0.83	2.00	0.45	0.85
TOTAL	54.00	0.97	19.71	0.91	50.00	0.90	21.37
NATION	274.00	1.07			234.00	0.91	
95-99		% OF STATE'S % OF NATIONAL		RATIO OF STATE %		TO NATIONAL %	
FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS
INDIANA	3.00	0.51	1.01	0.35	5.00	0.82	1.01
MARYLAND	2.00	0.55	0.73	0.51	3.00	0.82	1.28
MICHIGAN	14.00	1.58	5.11	1.07	6.00	0.88	2.56
PENNSYLVANIA	7.00	0.70	2.55	0.66	12.00	1.20	5.13
TEXAS	22.00	0.97	8.03	0.90	19.00	0.83	8.12
WASHINGTON	4.00	0.89	1.46	0.83	2.00	0.45	0.85
TOTAL	54.00	0.97	19.71	0.91	50.00	0.90	21.37
NATION	274.00	1.07			234.00	0.91	
100+		% OF STATE'S % OF NATIONAL		RATIO OF STATE %		TO NATIONAL %	
FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS	FATALITIES	CLASS
INDIANA	3.00	0.51	1.01	0.35	5.00	0.82	1.01
MARYLAND	2.00	0.55	0.73	0.51	3.00	0.82	1.28
MICHIGAN	14.00	1.58	5.11	1.07	6.00	0.88	2.56
PENNSYLVANIA	7.00	0.70	2.55	0.66	12.00	1.20	5.13
TEXAS	22.00	0.97	8.03	0.90	19.00	0.83	8.12
WASHINGTON	4.00	0.89	1.46	0.83	2.00	0.45	0.85
TOTAL	54.00	0.97	19.71	0.91	50.00	0.90	21.37
NATION	274.00	1.07			234.00	0.91	

APPENDIX TABLE 11-DRIVER FATALITIES BY SEX BY AGE BY STATE (CONT)

STATE	FATALITIES	% OF STATE'S FATALITIES CLASS	% OF NATIONAL FATALITIES CLASS	RATIO OF STATE TO NATIONAL	FATALITIES CLASS	% OF STATE'S FATALITIES CLASS	% OF NATIONAL FATALITIES CLASS	RATIO OF STATE TO NATIONAL	FATALITIES CLASS	% OF STATE'S FATALITIES CLASS	% OF NATIONAL FATALITIES CLASS	RATIO OF STATE TO NATIONAL
INDIANA	6.00	1.02	2.48	1.08	7.00	1.19	3.15	1.37	15.00	2.55	2.65	1.74
MARYLAND	3.00	0.82	1.24	0.87	1.00	0.27	0.45	0.32	12.00	3.30	2.78	1.60
MICHIGAN	11.00	1.74	4.55	1.31	12.00	1.35	5.41	1.56	18.00	2.03	3.42	0.99
PENNSYLVANIA	13.00	1.30	5.37	1.38	10.00	1.00	4.50	1.16	17.00	1.70	3.23	0.83
TEXAS	18.00	0.79	7.44	0.84	24.00	1.05	10.81	1.21	44.00	1.93	8.36	0.94
WASHINGTON	5.00	1.12	2.07	1.18	5.00	1.12	2.25	1.29	6.00	1.34	1.14	0.43
TOTAL	56.00	1.01	23.14	1.06	59.00	1.04	26.58	1.22	112.00	2.01	21.29	0.90
NATION	242.00	0.95			272.00	0.87			526.00	2.06		
TOTAL												
M-MILLION												
INDIANA	137.00	23.30	2.49	1.08								
MARYLAND	74.00	20.33	1.35	0.95								
MICHIGAN	199.00	22.43	3.62	1.04								
PENNSYLVANIA	216.00	21.66	3.93	1.01								
TEXAS	453.00	19.89	8.24	0.93								
WASHINGTON	106.00	23.66	1.93	1.10								
TOTAL	1185.00	21.31	21.55	0.99								
NATION	5590.00	21.49										

SOURCE: FARS

APPENDIX TABLE 12-FATALITIES PER MILLION LICENSED PER YEAR

	MALE DRIVERS (MILLIONS)		FEMALE DRIVERS (MILLIONS)		FATALITIES		PER MILLION	
	MALE	FATALITIES	MALE	FATALITIES	MALE	FEMALE	MALE	FEMALE
INDIANA	1.82	659.00	1.75	266.00	362.09	152.00		
MARYLAND	1.48	455.00	1.38	188.00	307.43	136.23		
MICHIGAN	3.34	1076.00	3.06	455.00	322.16	148.69		
PENNSYLVANIA	3.97	1220.00	3.50	507.00	307.30	144.86		
TEXAS	5.73	2867.00	5.13	1044.00	500.35	203.51		
WASHINGTON	1.56	511.00	1.42	235.00	327.56	165.49		
TOTAL	17.90	6788.00	16.24	2695.00	379.22	165.95		
NATION	81.01	31541.00	74.38	12709.00	389.35	170.87		

SOURCE: HIGHWAY STATISTICS 1984 P. 30 AND FARS 1984

APPENDIX TABLE 13-TOP 20 MAKE/MODELS INVOLVED IN FATAL ACCIDENTS

STATE	CHEVROLET PICKUP		CHEVROLET CHEVROLET		DODGE PICKUP		DODGE CHEVROLET		DODGE CHEVROLET		DODGE CHEVROLET		DODGE CHEVROLET		DODGE CHEVROLET		DODGE CHEVROLET		DODGE CHEVROLET			
	% OF STATE'S VEHICLES IN FATALS CLASS	% OF NATIONAL RATIO TO NATIONAL	% OF STATE'S VEHICLES IN FATALS CLASS	% OF NATIONAL RATIO TO NATIONAL	% OF STATE'S VEHICLES IN FATALS CLASS	% OF NATIONAL RATIO TO NATIONAL	% OF STATE'S VEHICLES IN FATALS CLASS	% OF NATIONAL RATIO TO NATIONAL	% OF STATE'S VEHICLES IN FATALS CLASS	% OF NATIONAL RATIO TO NATIONAL	% OF STATE'S VEHICLES IN FATALS CLASS	% OF NATIONAL RATIO TO NATIONAL	% OF STATE'S VEHICLES IN FATALS CLASS	% OF NATIONAL RATIO TO NATIONAL	% OF STATE'S VEHICLES IN FATALS CLASS	% OF NATIONAL RATIO TO NATIONAL	% OF STATE'S VEHICLES IN FATALS CLASS	% OF NATIONAL RATIO TO NATIONAL	% OF STATE'S VEHICLES IN FATALS CLASS	% OF NATIONAL RATIO TO NATIONAL		
INDIANA	54.00	4.31	1.90	64.00	5.11	2.51	0.40	38.00	3.04	2.49	0.40	3.04	2.49	0.40	3.04	2.49	0.40	3.04	2.49	0.40	3.04	
MARYLAND	20.00	2.36	0.70	32.00	3.78	1.26	0.30	22.00	2.60	1.46	0.31	2.60	1.46	0.31	2.60	1.46	0.31	2.60	1.46	0.31	2.60	
RICHIGAN	83.00	3.98	2.92	72.00	3.45	2.83	0.27	64.00	3.07	4.19	0.40	3.07	4.19	0.40	3.07	4.19	0.40	3.07	4.19	0.40	3.07	
PENNSYLVANIA	8.00	0.35	0.28	7.00	0.50	0.27	0.02	50.00	2.17	3.27	0.29	2.17	3.27	0.29	2.17	3.27	0.29	2.17	3.27	0.29	2.17	
TEXAS	480.00	9.82	16.91	341.00	6.97	13.39	0.53	159.00	3.23	10.41	0.43	3.23	10.41	0.43	3.23	10.41	0.43	3.23	10.41	0.43	3.23	
WASHINGTON	51.00	5.78	1.80	52.00	5.38	2.04	0.43	24.00	2.48	1.57	0.33	2.48	1.57	0.33	2.48	1.57	0.33	2.48	1.57	0.33	2.48	
TOTAL	696.00	15.60	24.52	568.00	12.73	22.31	1.01	357.00	8.00	23.38	1.01	8.00	23.38	1.01	8.00	23.38	1.01	8.00	23.38	1.01	8.00	
NATION	2838.00	14.08		2546.00	12.63			1527.00	7.58			1527.00	7.58		1527.00	7.58		1527.00	7.58		1527.00	7.58
OLDSMOBILE																						
CADILLAC																						
INDIANA	33.00	2.64	2.41	18.00	1.44	1.48	0.28	26.00	2.08	2.61	0.42	2.08	2.61	0.42	2.08	2.61	0.42	2.08	2.61	0.42	2.08	
MARYLAND	19.00	2.24	1.39	17.00	2.01	1.40	0.33	19.00	2.24	1.91	0.45	2.24	1.91	0.45	2.24	1.91	0.45	2.24	1.91	0.45	2.24	
RICHIGAN	64.00	3.07	4.68	27.00	1.30	2.22	0.21	37.00	1.78	3.71	0.36	1.78	3.71	0.36	1.78	3.71	0.36	1.78	3.71	0.36	1.78	
PENNSYLVANIA	48.00	2.08	3.51	34.00	1.47	2.79	0.24	55.00	2.38	5.52	0.48	2.38	5.52	0.48	2.38	5.52	0.48	2.38	5.52	0.48	2.38	
TEXAS	132.00	2.70	9.65	120.00	2.45	9.84	0.41	70.00	1.43	7.02	0.29	1.43	7.02	0.29	1.43	7.02	0.29	1.43	7.02	0.29	1.43	
WASHINGTON	11.00	1.14	0.80	28.00	2.69	2.14	0.45	13.00	1.35	0.27	0.27	1.35	0.27	0.27	1.35	0.27	0.27	1.35	0.27	0.27	1.35	
TOTAL	307.00	6.88	22.44	242.00	5.42	18.68	0.90	220.00	4.93	22.07	1.00	4.93	22.07	1.00	4.93	22.07	1.00	4.93	22.07	1.00	4.93	
NATION	1368.00	6.79		1217.00	6.04			997.00	4.95			997.00	4.95		997.00	4.95		997.00	4.95		997.00	4.95
CADILLAC																						
INDIANA	72.00	1.76	2.23	16.00	1.28	1.74	0.28	23.00	1.84	2.70	0.43	1.84	2.70	0.43	1.84	2.70	0.43	1.84	2.70	0.43	1.84	
MARYLAND	21.00	2.48	2.13	9.00	1.06	0.99	0.24	10.00	1.18	1.17	0.28	1.18	1.17	0.28	1.18	1.17	0.28	1.18	1.17	0.28	1.18	
RICHIGAN	34.00	1.63	3.45	29.00	1.39	3.19	0.31	41.00	1.97	4.81	0.47	1.97	4.81	0.47	1.97	4.81	0.47	1.97	4.81	0.47	1.97	
PENNSYLVANIA	47.00	2.04	4.77	34.00	1.47	3.74	0.33	38.00	1.45	4.46	0.39	1.45	4.46	0.39	1.45	4.46	0.39	1.45	4.46	0.39	1.45	
TEXAS	93.00	1.90	9.44	75.00	1.53	8.23	0.34	90.00	1.84	10.56	0.44	1.84	10.56	0.44	1.84	10.56	0.44	1.84	10.56	0.44	1.84	
WASHINGTON	16.00	1.66	1.62	23.00	2.38	2.53	0.53	9.00	0.93	1.06	0.22	0.93	1.06	0.22	0.93	1.06	0.22	0.93	1.06	0.22	0.93	
TOTAL	233.00	5.22	23.65	184.00	4.17	20.46	0.92	211.00	4.73	24.77	1.12	4.73	24.77	1.12	4.73	24.77	1.12	4.73	24.77	1.12	4.73	
NATION	985.00	4.87		999.00	4.51			652.00	4.23			652.00	4.23		652.00	4.23		652.00	4.23		652.00	4.23
CADILLAC																						
INDIANA	18.00	1.44	2.15	17.00	1.36	2.38	0.38	14.00	1.12	2.06	0.33	1.12	2.06	0.33	1.12	2.06	0.33	1.12	2.06	0.33	1.12	
MARYLAND	11.00	1.30	1.31	15.00	1.77	2.10	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
RICHIGAN	41.00	1.97	4.09	33.00	1.58	4.62	0.45	31.00	1.49	4.55	0.46	1.49	4.55	0.46	1.49	4.55	0.46	1.49	4.55	0.46	1.49	
PENNSYLVANIA	27.00	1.17	3.22	31.00	1.34	4.34	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TEXAS	71.00	1.45	8.47	38.00	0.78	5.32	0.22	106.00	2.17	15.59	0.64	2.17	15.59	0.64	2.17	15.59	0.64	2.17	15.59	0.64	2.17	
WASHINGTON	4.00	0.62	0.72	12.00	1.24	1.68	0.35	10.00	1.03	1.47	0.31	1.03	1.47	0.31	1.03	1.47	0.31	1.03	1.47	0.31	1.03	
TOTAL	174.00	3.90	20.76	146.00	3.27	20.45	0.92	161.00	3.61	23.68	1.07	3.61	23.68	1.07	3.61	23.68	1.07	3.61	23.68	1.07	3.61	
NATION	838.00	4.16		714.00	3.54			680.00	3.37			680.00	3.37		680.00	3.37		680.00	3.37		680.00	3.37

APPENDIX TABLE 13-TOP 20 MAKE/MODELS INVOLVED IN FATAL ACCIDENTS (CONT)

MAKE/MODEL	CHEVROLET		CHEVETTE		% OF STATE'S VEHICLES IN FATALS CLASS		% OF NATIONAL RATIO OF STATE TO NATIONAL		% OF STATE'S VEHICLES IN FATALS CLASS		% OF NATIONAL RATIO OF STATE TO NATIONAL	
	% OF STATE'S VEHICLES IN FATALS CLASS	% OF NATIONAL RATIO OF STATE TO NATIONAL	% OF STATE'S VEHICLES IN FATALS CLASS	% OF NATIONAL RATIO OF STATE TO NATIONAL	% OF STATE'S VEHICLES IN FATALS CLASS	% OF NATIONAL RATIO OF STATE TO NATIONAL	% OF STATE'S VEHICLES IN FATALS CLASS	% OF NATIONAL RATIO OF STATE TO NATIONAL	% OF STATE'S VEHICLES IN FATALS CLASS	% OF NATIONAL RATIO OF STATE TO NATIONAL	% OF STATE'S VEHICLES IN FATALS CLASS	% OF NATIONAL RATIO OF STATE TO NATIONAL
INDIANA	19.00	1.52	2.82	0.45	8.00	0.64	1.32	0.21	19.00	1.52	3.15	0.51
MARYLAND	27.00	2.60	3.27	0.78	7.00	0.83	1.15	0.27	17.00	2.01	2.82	0.67
MICHIGAN	38.00	1.82	5.65	0.53	27.00	1.30	4.44	0.43	29.00	1.39	4.81	0.47
PENNSYLVANIA	27.00	1.17	4.01	0.35	19.00	0.82	3.12	0.27	0.00	0.00	0.00	0.00
TEXAS	33.00	0.67	4.90	0.20	44.00	0.90	7.24	0.30	59.00	1.21	9.78	0.40
WASHINGTON	9.00	0.93	1.34	0.28	9.00	0.93	1.48	0.31	8.00	0.83	1.33	0.28
TOTAL	148.00	3.32	21.99	0.99	114.00	2.56	18.75	0.85	132.00	2.96	21.89	0.99
NATION	673.00	3.34	608.00	3.02	603.00	2.99			603.00	2.99		
FORD												
PINTO	11.00	0.88	1.85	0.30	7.00	0.36	1.22	0.20	12.00	0.96	2.19	0.35
INDIANA	8.00	0.94	1.34	0.32	10.00	1.18	1.74	0.42	11.00	1.30	2.01	0.48
MARYLAND	26.00	1.25	4.37	0.42	18.00	0.86	3.14	0.30	24.00	1.15	4.39	0.42
MICHIGAN	24.00	1.04	4.03	0.35	10.00	0.43	1.74	0.15	2.00	0.09	0.37	0.03
PENNSYLVANIA	28.00	0.57	4.71	0.19	49.00	1.00	8.53	0.35	49.00	1.00	8.96	0.37
TEXAS	10.00	1.03	1.48	0.35	4.00	0.41	0.70	0.15	10.00	1.03	1.83	0.38
WASHINGTON	107.00	2.40	17.98	0.81	98.00	2.20	17.10	0.77	108.00	2.42	19.74	0.89
TOTAL	595.00	2.95	573.00	2.84	573.00	2.84			547.00	2.71		
NATION												
PONTIAC												
GRAND PRIX	21.00	2.16	4.94	0.79	12.00	0.96	2.23	0.36				
INDIANA	5.00	0.59	0.91	0.22	9.00	1.06	1.68	0.40				
MARYLAND	26.00	1.25	4.73	0.46	35.00	1.48	6.52	0.63				
MICHIGAN	16.00	0.69	2.92	0.26	21.00	0.91	3.91	0.34				
PENNSYLVANIA	48.00	0.98	8.77	0.36	48.00	0.98	8.94	0.37				
TEXAS	2.00	0.21	0.37	0.08	4.00	0.41	0.74	0.15				
WASHINGTON	124.00	2.78	22.67	1.02	129.00	2.89	24.02	1.09				
TOTAL	547.00	2.71	537.00	2.66	537.00	2.66						
NATION												
HILLION												
TOTAL	1232.00	100.00	6.21	1.00	100.00	100.00						
INDIANA	847.00	100.00	4.20	1.00	100.00	100.00						
MARYLAND	2084.00	100.00	10.34	1.00	100.00	100.00						
MICHIGAN	2306.00	100.00	11.44	1.00	100.00	100.00						
PENNSYLVANIA	4889.00	100.00	24.26	1.00	100.00	100.00						
TEXAS	966.00	100.00	4.79	1.00	100.00	100.00						
WASHINGTON	4461.00	100.00	22.13	1.00	100.00	100.00						
TOTAL	20154.00	100.00			100.00	100.00						
NATION												

SOURCE: HIGHWAY STATISTICS 1981

• PENNSYLVANIA CATEGORIZES MOST LIGHT TRUCKS AS UNKNOWN.

APPENDIX TABLE 14-ACCIDENTS BY ROAD FUNCTION CLASS BY STATE

STATE	INTERSTATE ACCIDENTS		% OF STATES ACCIDENTS		% OF NATIONAL ACCIDENTS		RATIO OF STATE TO NATIONAL		PRIME/ARTERIAL ACCIDENTS		% OF STATES ACCIDENTS		% OF NATIONAL CLASS		RATIO OF STATE TO NATIONAL	
	74.00	8.83	1.97	0.93	20.00	2.39	1.32	0.62	180.00	21.48	1.60	0.85				
INDIANA	74.00	8.83	1.97	0.93	20.00	2.39	1.32	0.62	180.00	21.48	1.60	0.85				
MARYLAND	51.00	8.67	1.36	0.92	14.00	2.38	0.92	0.62	173.00	29.42	1.73	1.17				
MICHIGAN	89.00	6.51	2.37	0.89	24.00	1.75	1.38	0.46	354.00	25.88	3.55	1.03				
PENNSYLVANIA	113.00	7.23	3.61	0.76	38.00	2.43	2.51	0.48	419.00	26.82	4.20	1.04				
TEXAS	513.00	14.80	13.68	1.56	181.00	5.22	11.94	1.37	867.00	23.02	9.69	0.99				
WASHINGTON	53.00	7.86	1.41	0.83	0.00	0.00	0.00	0.00	195.00	29.52	1.99	1.17				
TOTAL	893.00	10.51	23.81	1.11	277.00	3.26	18.27	0.85	2192.00	25.80	21.96	1.02				
NATION	3750.00	9.46	1516.00	3.82	9982.00	25.19										
ACCIDENTS	RURAL ART		% OF STATES ACCIDENTS		% OF NATIONAL ACCIDENTS		RATIO OF STATE TO NATIONAL		MAJOR RURAL COLLECTOR ACCIDENTS		% OF STATES ACCIDENTS		% OF NATIONAL CLASS		RATIO OF STATE TO NATIONAL	
INDIANA	197.00	23.51	2.43	1.15	20.00	2.39	1.16	0.53	114.00	13.60	1.84	0.87				
MARYLAND	135.00	22.96	1.67	1.12	39.00	6.63	2.27	1.53	85.00	14.46	1.37	0.93				
MICHIGAN	318.00	33.23	3.93	1.18	23.00	1.83	1.45	0.42	273.00	19.96	4.42	1.28				
PENNSYLVANIA	402.00	25.74	4.97	1.28	36.00	2.30	2.09	0.53	186.00	11.91	3.01	0.74				
TEXAS	599.00	17.29	7.40	0.85	107.00	3.09	6.22	0.71	598.00	17.28	9.67	1.11				
WASHINGTON	154.00	22.85	1.90	1.12	29.00	4.30	1.69	0.99	108.00	16.02	1.75	1.03				
TOTAL	1805.00	21.25	22.30	1.04	256.00	3.01	14.88	0.69	1364.00	16.06	22.07	1.03				
NATION	8095.00	20.43	1720.00	4.34					6181.00	15.60						
ACCIDENTS	RURAL COLLECTOR		% OF STATES ACCIDENTS		% OF NATIONAL ACCIDENTS		RATIO OF STATE TO NATIONAL		LOCAL ROAD STREET ACCIDENTS		% OF STATES ACCIDENTS		% OF NATIONAL CLASS		RATIO OF STATE TO NATIONAL	
INDIANA	18.00	2.15	1.33	0.63	215.00	25.66	3.13	1.48	0.00	0.00	0.00	0.00				
MARYLAND	19.00	3.23	1.41	0.95	65.00	11.05	0.95	0.64	7.00	1.19	4.02	2.71				
MICHIGAN	49.00	3.59	3.63	1.05	202.00	14.77	2.94	0.85	34.00	2.48	19.54	5.46				
PENNSYLVANIA	65.00	4.16	4.81	1.22	291.00	18.63	4.24	1.08	12.00	0.77	4.90	1.73				
TEXAS	94.00	2.71	6.96	0.80	506.00	14.40	7.37	0.84	0.00	0.00	0.00	0.00				
WASHINGTON	30.00	4.45	2.22	1.31	101.00	14.98	1.47	0.87	0.00	0.00	0.00	0.00				
TOTAL	275.00	3.24	20.36	0.95	1380.00	16.74	20.11	0.94	53.00	0.62	30.46	1.42				
NATION	1351.00	3.41	4862.00	17.31					174.00	0.44						
ACCIDENTS	TOTAL ACCIDENTS		% OF STATES ACCIDENTS		% OF NATIONAL ACCIDENTS		RATIO OF STATE TO NATIONAL									
INDIANA	838.00	100.00	2.11	1.00												
MARYLAND	588.00	100.00	1.48	1.00												
MICHIGAN	1368.00	100.00	3.45	1.00												
PENNSYLVANIA	1562.00	100.00	3.94	1.00												
TEXAS	3465.00	100.00	8.74	1.00												
WASHINGTON	674.00	100.00	1.70	1.00												
TOTAL	8495.00	100.00	21.44	1.00												
NATION	39631.00	100.00														

SOURCE: FARS 1984
U.S. DEPT. OF TRANSPORTATION FHWA

APPENDIX TABLE 15-ACCIDENTS BY SURFACE TYPE BY STATE

STATE	CONCRETE	% OF STATE'S ACCIDENTS	% OF NATIONAL TO NATIONAL I	BLACKTOP	% OF STATE'S ACCIDENTS	% OF NATIONAL TO NATIONAL I	SLAG GRAVEL	% OF STATE'S ACCIDENTS	% OF NATIONAL TO NATIONAL I	RATIO OF STATE I TO NATIONAL I
INDIANA	123.00	14.68	3.03	698.00	83.29	2.11	16.00	1.91	2.43	1.15
MARYLAND	43.00	7.31	1.06	539.00	91.67	1.63	4.00	0.68	0.61	0.41
MICHIGAN	270.00	19.74	6.64	994.00	72.66	3.01	67.00	4.90	10.20	2.95
PENNSYLVANIA	242.00	15.49	5.95	1028.00	65.81	3.11	0.00	0.00	0.00	0.00
TEXAS	462.00	13.33	11.37	2923.00	84.36	8.84	28.00	0.81	4.26	0.49
WASHINGTON	59.00	8.75	1.45	599.00	88.87	1.81	11.00	1.63	1.67	0.98
TOTAL	1199.00	14.11	29.50	6781.00	79.82	20.51	126.00	1.48	19.18	0.89
NATION	4064.00	10.25	33057.00	83.41	657.00	1.66				
STATE	OTHER	% OF STATE'S ACCIDENTS	% OF NATIONAL TO NATIONAL I	TOTAL	% OF STATE'S ACCIDENTS	% OF NATIONAL TO NATIONAL I				
INDIANA	1.00	0.12	0.05	838.00	100.00	2.11	1.00			
MARYLAND	2.00	0.34	0.11	388.00	100.00	1.48	1.00			
MICHIGAN	37.00	2.70	2.00	1368.00	100.00	3.45	1.00			
PENNSYLVANIA	292.00	18.69	15.76	1562.00	100.00	3.94	1.00			
TEXAS	52.00	1.50	2.81	3465.00	100.00	8.74	1.00			
WASHINGTON	5.00	0.74	0.27	674.00	100.00	1.70	1.00			
TOTAL	389.00	4.58	20.99	8495.00	100.00	21.44	1.00			
NATION	1653.00	4.68	39631.00	100.00						

SOURCE: FARS 1984

APPENDIX TABLE 16-FATAL ACCIDENTS BY NUMBER OF COLLISION

	% OF STATE'S % OF NATIONAL		RATIO OF STATE %		% OF STATE'S % OF NATIONAL		RATIO OF STATE %	
	NOT APPLICABLE	ACCIDENTS CLASS	TO NATIONAL %	REAR END	ACCIDENTS CLASS	TO NATIONAL %	HEAD ON	TO NATIONAL %
INDIANA	595.00	60.26	2.05	0.97	46.00	5.49	2.50	1.18
MARYLAND	363.00	61.73	1.48	1.00	34.00	5.78	1.85	1.25
RICHIGAN	793.00	57.97	3.23	0.93	60.00	4.39	3.26	0.75
PENNSYLVANIA	964.00	61.72	3.92	0.99	65.00	4.16	3.54	0.90
TEXAS	2144.00	61.88	8.72	1.00	189.00	5.43	10.23	1.17
WASHINGTON	410.00	65.28	1.79	1.05	25.00	3.71	1.36	0.80
TOTAL	5209.00	61.32	21.19	0.99	418.00	4.92	22.74	1.06
NATION	24579.00	62.02			1838.00	4.44		
INDIANA	0.00	0.00	0.00	0.00	134.00	15.99	2.03	0.96
MARYLAND	0.00	0.00	0.00	0.00	81.00	13.78	1.23	0.83
RICHIGAN	0.00	0.00	0.00	0.00	239.00	17.47	3.62	1.05
PENNSYLVANIA	0.00	0.00	0.00	0.00	309.00	19.72	4.67	1.18
TEXAS	1.00	0.03	25.00	2.86	553.00	15.96	8.39	0.96
WASHINGTON	0.00	0.00	0.00	0.00	88.00	13.06	1.33	0.78
TOTAL	1.00	0.01	25.00	1.17	1403.00	16.52	21.28	0.99
NATION	4.00	0.01			6594.00	16.64		
INDIANA	7.00	0.84	1.83	0.87	9.00	1.07	2.59	1.22
MARYLAND	5.00	0.65	1.31	0.88	2.00	0.34	0.57	0.39
RICHIGAN	13.00	0.95	3.40	0.99	21.00	1.33	6.03	1.75
PENNSYLVANIA	9.00	0.58	2.36	0.60	9.00	0.58	2.59	0.66
TEXAS	59.00	1.70	15.44	1.77	31.00	0.89	8.91	1.02
WASHINGTON	1.00	0.15	0.26	0.15	3.00	0.44	0.86	0.51
TOTAL	94.00	1.11	24.61	1.15	75.00	0.88	21.55	1.00
NATION	382.00	0.96			348.00	0.88		

SOURCE: FARS 1984

10 11 12

13 14 15

1
2
3

4
5
6

1
2
3

4
5
6