



U.S. Department  
of Transportation  
**Federal Highway  
Administration**

# Highway Safety Performance—1983

## **Fatal and Injury Accident Rates on Public Roads in the United States**

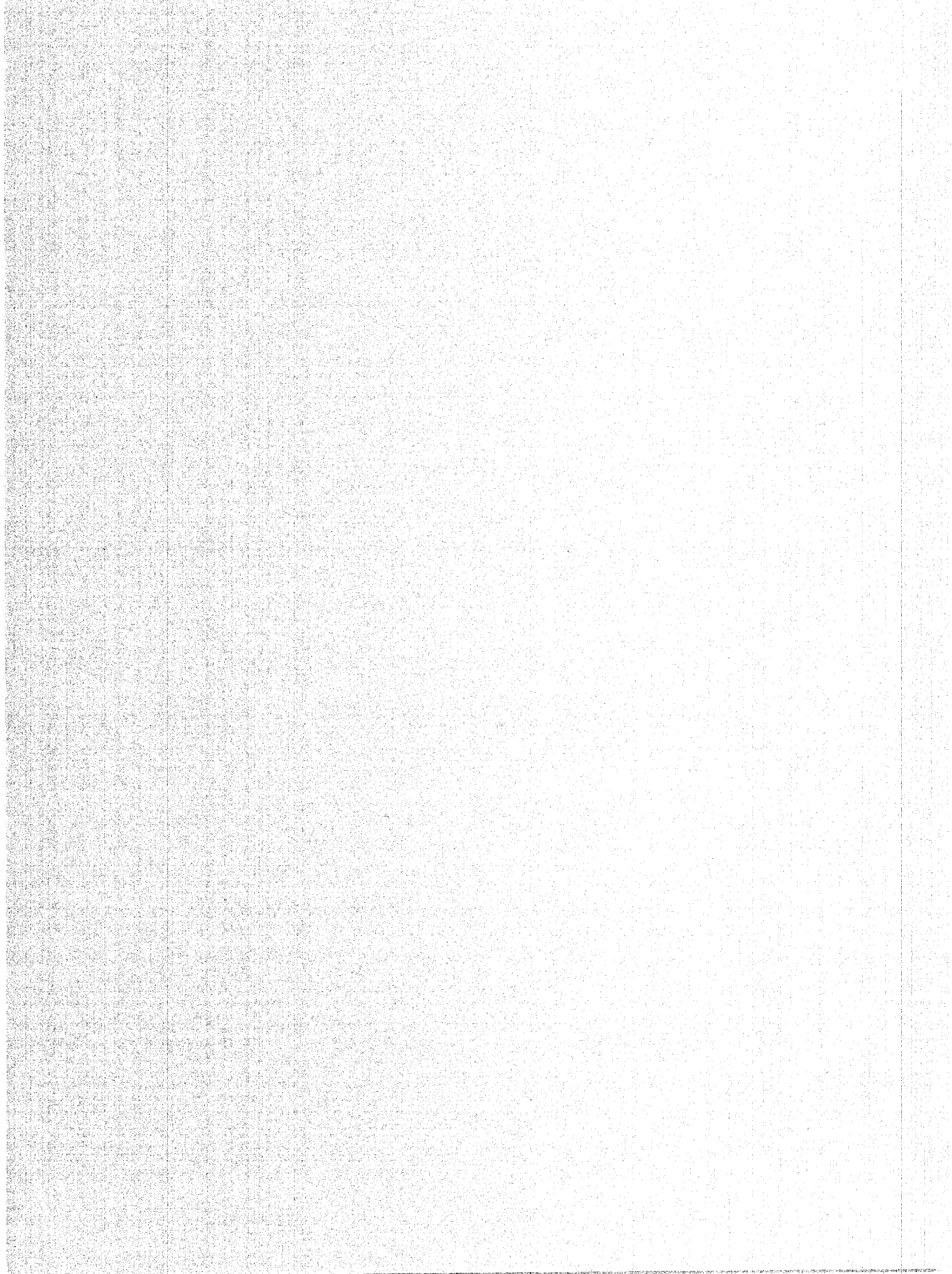
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Offices of Highway Safety  
and Highway Planning

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December 1984

A report of the Secretary of  
Transportation to the United  
States Congress pursuant to  
Section 207 of the Surface  
Transportation Assistance Act of  
1982 (P.L. 97-424)



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U.S. DEPARTMENT OF TRANSPORTATION  
Federal Highway Administration  
Washington, D.C. 20590

## FOREWORD

This report was prepared pursuant to Section 207 of the Surface Transportation Assistance Act of 1982 (P.L. 97-424) which reads as follows:

Sec. 207. The Secretary of Transportation shall prepare, publish, and submit to Congress not later than December 31 of each calendar year beginning after December 31, 1982, a report on the highway safety performance of each State in the preceding calendar year. Such report shall provide data on highway fatalities and injuries and motor vehicle accidents involving fatalities and injuries and travel in urban areas of each State for each system of highways and in rural areas of such State for each system of highways. Such report shall be in such form and contain such other information on highway accidents as will permit an evaluation and comparison of highway safety performance of the States. For purposes of this section (1) the systems of highways in a State are the Federal-aid primary system, the Federal-aid secondary system, the Federal-aid urban system, and the Interstate System (as such terms are defined in section 101 of Title 23, United States Code) and the other highways in such State which are not on the Federal-aid system, and (2) the terms "State," "rural areas," and "urban area" have the meaning such terms have under such section 101.

This is the second report to Congress under Section 207. The reports contain an extension of a series of statistical data published annually since 1967 by the Federal Highway Administration (FHWA) as "Fatal and Injury Accident Rates on Federal-Aid and Other Highway Systems." The series has been a cooperative effort of the FHWA's Offices of Traffic Operations, Highway Safety, and Highway Planning. The States have provided the data for this series through the Highway Performance Monitoring System (HPMS), and its predecessors, administered by the Office of Highway Planning. Data from the Fatal Accident Reporting System (FARS) administered by the National Highway Traffic Safety Administration (NHTSA) have been used to verify and supplement the HPMS data.

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## HIGHWAY SAFETY PERFORMANCE - 1983

### SECTION I--INTRODUCTION

#### A. Purpose of Report

In response to the Congressional direction given in the Surface Transportation Assistance Act of 1982, this report provides motor vehicle traffic accident data which may be used, together with other relevant information, in evaluating and comparing the highway safety performance of the States. It is not the purpose of this report to present either a detailed analysis of the data or a completed evaluation or comparison of State highway safety performance. The text of the report is primarily technical detail and background information which may assist those who analyze or interpret the statistical tables and graphs.

#### B. Terminology

It is customary, when drafting legislation, to begin with definitions. These serve to introduce terms which are not in common use and to clarify the intended meaning of familiar terms which may be ambiguous. Interpretation of laws is greatly facilitated by the use of carefully defined terminology. Similarly, the interpretation of statistics is dependent upon an understanding of the terminology used in the collection and processing of the data. Such an understanding is particularly important when statistics from two or more sources are combined or compared. For this reason, an explanation of pertinent terminology precedes the statistical data in this report.

The two primary sources for the definitions which follow are Section 101 of Title 23 of the United States Code and the Manual on Classification of Motor Vehicle Traffic Accidents (ANSI D16.1-1976). It should be recognized that the accident data in this report have been collected and processed by thousands of persons in State and local agencies and that deviations from the standard definitions are not unusual. Most of the deviations are relatively minor, but some are not. Users of accident statistics should be constantly alert to the fact that statistical differences may reflect differences in terminology rather than differences in accident experience.

Terms used in this report are defined as follows:

A motor vehicle traffic accident is an accident involving a motor vehicle in use within the right-of-way or other boundaries of a trafficway open for the use of the public.

An injury is any bodily harm received by a person in a motor vehicle traffic accident.

A fatal injury is any injury that results in death.

A nonfatal injury is any injury other than a fatal injury.

A fatal accident is a motor vehicle traffic accident resulting in one or more fatal injuries.

A nonfatal injury accident is a motor vehicle traffic accident that results in one or more injuries, but no fatal injuries.

A fatality is the death of any person who suffers a fatal injury. For its statistics on motor vehicle traffic fatalities, the Department of Transportation uses a 30-day counting rule, including only those deaths which occur within 30 days of the fatal injury. Approximately two percent of traffic fatalities occur later.

A nonfatally injured person is one who suffers a nonfatal injury in either a fatal accident or a nonfatal injury accident.

Vehicle miles are the miles of travel by all types of motor vehicles, as determined by the State highway departments on the basis of actual traffic counts and established estimating procedures.

The fatal accident rate, nonfatal injury accident rate, fatality rate, and nonfatal injury rate are, respectively, the number of fatal accidents, nonfatal injury accidents, fatalities, and nonfatally injured persons per 100 million vehicle miles of travel.

An urban highway is any road or street within the boundaries of an urban area. An urban area is an area including and adjacent to a municipality or urban place with 5,000 or more population. The boundaries of urban areas are fixed by the State highway departments, subject to the approval of the Federal Highway Administration, for purposes of the Federal-Aid highway program.

A rural highway is any road or street which is not an urban highway.

Travel density is the average number of vehicle-miles driven on a section of highway each day divided by the length of the section in miles. It is expressed as a number of vehicles and may be referred to as average daily traffic (ADT).

The provisional rate-density relationship is the relationship between fatality rates and average daily traffic. It is based on data for the 4-year period preceding the calendar year for which detailed data are reported. It is labelled "provisional" to make it clear that it is to be used as a guide rather than a standard. A provisional rate-density relationship may be described graphically or mathematically by a rate-density curve.

A provisional range for a given period of time is based on a provisional rate-density relationship and the volume of travel. The provisional range indicates—for an appropriate volume of travel—the amount of deviation from fatality rates on a rate-density curve which might be expected if the deviation were random.

The characteristics of the functional classes of highways referred to in this compilation of statistical data are briefly described as follows:

Arterial highways serve major traffic movements or major traffic corridors. While they may provide access to abutting land, their primary function is to serve traffic moving through the area.

Local highways are those roads and streets whose principal function is to provide direct access to abutting land.

Collector highways are those highways which link local highways to arterial highways.

The characteristics of the several Federal-aid highway systems referred to in this report are briefly described as follows:

Federal-Aid Primary, Secondary, and Urban highway systems are those for which Federal-Aid highway matching funds may be spent by the State.

The Federal-Aid Primary system is a system of connected main roads important to interstate, statewide, and regional travel, consisting of rural arterial routes and their extensions into or through urban areas.

The Interstate System is a part of the Federal-Aid Primary system. It is a system of freeways (i.e., expressways with fully controlled access) connecting and serving the principal cities of the United States.

The Federal-Aid Secondary system consists of rural major collector routes.

The Federal-Aid Urban system consists of urban arterial and collector routes, exclusive of urban extensions of the Federal-Aid Primary system.

The fatality statistics in this report differ somewhat from those reported elsewhere. For its motor vehicle traffic fatality statistics, the Department of Transportation (DOT) uses a 30-day counting rule.<sup>1/</sup> Under this rule, deaths resulting from an accident are counted only if they occur within 30 days of the accident. Traffic fatalities are listed by the time and place of the fatal accident. Similar statistics published by the National Center for Health Statistics (NCHS) are listed by the time of death and place of residence of the deceased, using a 12-month counting rule. If a New York resident died on January 10, 1982, as a result of a December 27, 1981, accident in Vermont, the death would be reported as a

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<sup>1/</sup> Federal Highway Administration/National Highway Traffic Safety Administration; "Highway Fatality Counting Rule"; Federal Register, Volume 43, No. 191; pp. 45486-45487; October 2, 1978.

1982 New York traffic fatality by the National Center for Health Statistics and as a 1981 Vermont fatality by the Department of Transportation; if the death had not occurred until January 29—more than 30 days after the accident—it would have been included in NCHS reports for 1982 but not in DOT reports for any year.

Another difference in the reporting of fatalities which result from motor vehicle accidents is the treatment of deaths resulting from nontraffic accidents. Examples of motor vehicle nontraffic accidents are those which occur in the driveways of private homes or in other locations outside the rights-of-way or other boundaries of roads which are open for public use. Annual motor vehicle fatality figures for the United States reported by NCHS and the National Safety Council (NSC) generally include about a thousand nontraffic fatalities—deaths which are not included in DOT reports.

The number of nonfatally injured persons is also counted in a variety of ways. In this publication the number of injured persons is the number reported by police. The NSC, for comparability with injuries from industrial and other accidents, reports the number of persons disabled beyond the day of the accident. Another approach is taken in the National Health Survey by the Bureau of Census. In the National Health Survey, the estimated number of injuries is based on responses to household interviews. National Health Survey injury figures tend to be about twice as high as those reported by NSC. The police-reported figures used in this publication are midway between the others.

### C. Highway Safety Performance in 1983

The traffic accident statistics for 1983 show a respectable decrease of more than 1,200 fatalities, as compared to 1982. As a result of this decrease and an increase in the vehicle-miles of travel, the fatality rate per 100 million vehicle-miles of travel dropped from 2.75 to 2.58, setting a new record low.

Table 1 contains travel and accident data by highway system for the United States. It is a summary of the detailed data contained in Tables 2 through 6. Estimates have been included where data reported by the States were incomplete. The data permit comparison of numbers and rates (per 100 million vehicle-miles) for accidents and casualties on Federal-aid and other highway systems. Note that fatality rates are substantially lower on the Interstate System than on any other highway system and that about one-fifth of all highway travel in the United States occurs on the Interstate System.

Table 2 contains a summary of travel and accident data by State. In addition to data which are presented in greater detail in Tables 3 through 6, Table 2 includes pedestrian data. The number of pedestrians injured, fatally or nonfatally, are reported for each State together with pedestrian injury rates.

TABLE 1. U.S. VEHICLE-MILE RATES BY HIGHWAY SYSTEM - 1983

HIGHWAY SYSTEM	HIGHWAY MILES 2/	VEHICLE MILES (MILLIONS) 2/	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS		NONFATAL INJURY ACCIDENTS 4/		FATALITIES		NONFATAL INJURED PERSONS 4/	
				NUMBER	RATE 3/	NUMBER	RATE 3/	NUMBER	RATE 3/	NUMBER	RATE 3/
INTERSTATE (ARTERIAL)	32,788	144,733	12,094	1,872	36,534	2,178	1.50	58,421	1.80	40,36	
RURAL	10,240	191,149	51,142	1,719	91,765	1,929	1.01	136,945	1.40	171.64	
URBAN	43,028	335,882	21,387	3,591	128,299	4,107	1.22	195,366	1.50	58.17	
TOTAL											
OTHER FEDERAL-AID PRIMARY (ARTERIAL)	225,928	269,712	3,271	8,640	195,408	10,266	3.81	326,882	12.10	121.20	
RURAL	31,084	213,450	18,814	3,580	253,111	3,987	1.87	396,774	18.19	181.19	
URBAN	257,012	483,172	5,151	12,220	449,519	14,253	2.95	713,656	14.70	147.70	
TOTAL											
FEDERAL-AID URBAN	83,944	292,638	9,551	6,595	513,500	7,091	2.42	762,635	26.10	261.00	
ARTERIAL	53,251	67,379	3,467	1,368	112,276	1,469	2.18	160,505	238.21	238.21	
COLLECTOR	137,195	360,017	7,189	7,963	625,775	8,560	2.38	923,140	256.42	256.42	
TOTAL (ALL URBAN)											
FEDERAL-AID SECONDARY (COLLECTOR)	397,329	148,250	1,022	5,259	146,211	6,017	4.06	227,177	153.24	153.24	
TOTAL (ALL RURAL)											
NON-FEDERAL-AID ARTERIAL	2,861	3,671	3,515	69	2,392	87	2.37	4,316	1.85	1.85	
RURAL	8,317	24,487	8,066	613	24,150	640	2.61	36,063	117.57	117.57	
URBAN	11,178	28,158	6,902	582	26,542	727	2.58	40,379	143.40	143.40	
TOTAL											
NON-FEDERAL-AID COLLECTOR	335,900	52,342	426	1,867	74,935	2,061	3.94	111,441	212.91	212.91	
RURAL	19,278	19,213	2,730	332	22,383	355	1.85	32,473	169.02	169.02	
URBAN	356,268	71,555	550	2,199	97,319	2,416	3.38	143,914	201.12	201.12	
TOTAL											
NON-FEDERAL-AID LOCAL	2,221,392	81,825	101	3,373	156,210	3,684	4.50	227,311	115.59	115.59	
RURAL	456,236	140,247	842	2,679	375,562	2,832	2.02	530,177	378.03	378.03	
URBAN	2,677,628	222,072	227	6,052	531,772	6,916	2.93	757,488	341.10	341.10	
TOTAL											
ALL FEDERAL-AID	656,045	562,695	2,350	15,771	379,153	18,461	3.28	612,480	108.85	108.85	
RURAL	178,519	764,626	1,735	13,262	970,652	14,476	1.89	1,486,859	189.22	189.22	
URBAN	834,564	1,327,321	4,357	29,033	1,349,805	32,937	2.48	2,059,339	155.15	155.15	
TOTAL											
ALL NON-FEDERAL-AID	2,561,243	137,838	147	5,309	233,538	5,832	4.23	343,068	248.89	248.89	
RURAL	483,831	183,947	1,042	3,624	422,095	3,827	2.08	599,713	325.48	325.48	
URBAN	3,045,074	321,785	290	8,933	655,633	9,659	3.00	941,781	292.67	292.67	
TOTAL											
NON-INTERSTATE	3,184,500	555,800	478	19,208	575,157	22,115	3.98	897,127	161.41	161.41	
RURAL	652,110	757,424	3,182	15,167	1,309,982	16,374	2.16	1,908,627	251.99	251.99	
URBAN	3,836,160	1,313,224	938	34,375	1,877,139	38,489	2.93	2,809,754	213.65	213.65	
TOTAL											
RURAL	3,217,288	700,533	597	21,080	612,691	24,293	3.47	955,548	136.40	136.40	
URBAN	662,350	948,573	3,924	16,886	1,395,747	18,303	1.93	2,045,572	181.55	181.55	
TOTAL	3,879,638	1,649,106	1,155	37,966	2,008,438	42,596	2.58	3,001,120	181.98	181.98	

1/ U.S. ESTIMATES EXCLUDE THE COMMONWEALTH OF PUERTO RICO AND THE TERRITORIES OF AMERICAN SAMOA, GUAM, AND VIRGIN ISLANDS. ESTIMATES FOR FATAL ACCIDENTS, FATALITIES, NONFATAL INJURY ACCIDENTS AND NONFATAL INJURED PERSONS ARE BASED ON THE PARTIAL DATA REPORTED BY STATES WHICH ARE DISPLAYED IN THE FOLLOWING TABLES, TOGETHER WITH TOTALS REPORTED BY MOST STATES.

2/ MILEAGE AND TRAVEL DATA ARE FROM THE HIGHWAY PERFORMANCE MONITORING SYSTEM (HPMS) FOR 1983. FEDERAL-AID HIGHWAY MILEAGE IS FROM HPMS UNIVERSE DATA AS OF SEPTEMBER 30, 1984 AND VEHICLE-MILES

OF TRAVEL ARE FROM THE HPMS AREA-WIDE SUMMARY TABLES AS OF SEPTEMBER 30, 1984. FEDERAL HIGHWAY ADMINISTRATION ESTIMATES WERE MADE FOR MAJOR HIGHWAY CATEGORIES WHERE COMPLETE FUNCTIONAL OR FEDERAL-AID SYSTEM DATA WERE NOT REPORTED.

3/ RATES ARE PER 100 MILLION VEHICLE MILES.

4/ TOTALS OF NONFATAL INJURY ACCIDENTS AND NONFATAL INJURED PERSONS WERE ESTIMATED BY FHWA FOR ARKANSAS, FLORIDA, ILLINOIS, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE AND RHODE ISLAND.

TABLE 2. STATE ACCIDENT SUMMARY - 1983

STATE	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	FATAL ACCIDENTS		NONFATAL INJURY ACCIDENTS		FATALITIES		NONFATAL INJURED PERSONS		FATALITY INJURED PEDESTRIANS		NONFATALITY INJURED PEDESTRIANS	
			NUMBER	RATE 1/	NUMBER	RATE 1/	NUMBER	RATE 1/	NUMBER	RATE 1/	NUMBER	RATE 1/	NUMBER	RATE 1/
ALABAMA	87,598	31,032	816	2.63	22,712	73.19	944	3.04	32,667	105.27	99	0.32	832	2.88
ALASKA	8,772	3,358	135	4.02	4,477	135.32	130	4.47	6,705	199.67	21	0.63	232	6.91
ARIZONA	76,334	19,611	516	3.11	31,683	161.96	5	3.44	50,076	295.35	121	0.62	1,321	6.74
ARKANSAS	77,053	16,684	485	2.91	31,568	161.96	2/	3.34	3/	3/	3/	4/	3/	4/
CALIFORNIA	174,033	4,089	231	2.24	196,394	107.52	4,573	2.50	292,936	160.16	836	0.46	14,229	7.79
COLORADO	75,423	24,109	592	2.46	27,803	115.32	647	2.68	40,607	168.43	90	0.37	1,131	4.59
CONNECTICUT	19,534	20,630	404	1.95	32,434	156.25	438	2.12	45,009	218.17	58	0.28	1,471	7.13
DELAWARE	5,280	4,886	98	2.01	4,998	94.11	110	2.25	6,932	141.87	16	0.33	1,260	5.32
DIST. OF COL.	1,102	3,099	63	2.03	9,094	293.45	72	2.32	13,478	434.91	24	0.77	1,097	35.40
FLORIDA	93,074	81,775	2,412	2.95	3/	3/	2,583	3.28	64,547	132.17	202	0.41	2,006	4.11
GEORGIA	104,955	48,837	1,154	2.35	43,308	88.68	1,993	2.65	11,628	201.40	24	0.41	725	12.34
HAWAII	4,297	5,873	1,131	2.23	8,264	140.71	139	2.37	3/	3/	3/	4/	3/	4/
IDAHO	68,447	8,287	231	2.79	7,248	87.46	264	3.19	11,209	135.26	25	0.30	218	2.93
ILLINOIS	134,599	67,570	2/	2.05	3/	3/	2,27	2.27	4/	4/	3/	4/	3/	4/
INDIANA	51,736	33,837	874	2.19	42,439	106.53	1,014	2.55	52,302	156.39	92	0.23	1,514	4.80
IOWA	112,289	19,651	434	2.21	18,049	91.80	510	2.59	26,050	132.90	35	0.18	757	3.85
KANSAS	132,265	18,153	351	1.99	19,691	108.47	411	2.26	29,321	161.52	26	0.14	559	3.08
KENTUCKY	69,150	25,719	680	2.58	27,742	108.83	778	2.91	41,504	185.34	93	0.35	1,467	5.49
LOUISIANA	58,010	27,573	836	3.03	44,722	152.19	933	3.38	74,204	269.12	128	0.46	3,848	13.96
MAINE	21,953	7,924	198	2.50	3/	3/	224	2.83	3/	3/	3/	4/	3/	4/
MARYLAND	27,425	30,618	607	1.98	3/	3/	656	2.14	3/	3/	3/	4/	3/	4/
MASSACHUSETTS	33,795	37,541	605	1.61	3/	3/	651	1.73	3/	3/	3/	4/	3/	4/
MICHIGAN	117,467	49,606	1,352	1.96	90,892	149.36	1,314	2.16	135,911	223.17	235	0.39	4,239	6.97
MINNESOTA	131,475	31,063	458	1.60	26,459	85.18	555	1.79	38,114	122.70	60	0.19	1,333	4.29
MISSISSIPPI	71,075	17,802	626	3.52	9,559	53.70	716	4.02	14,420	81.00	89	0.50	408	2.29
MISSOURI	118,713	36,543	806	2.21	35,425	99.68	911	2.40	54,873	150.15	121	0.33	2,109	5.77
MONTANA	71,553	7,181	233	3.52	6,110	85.09	285	3.98	9,347	130.15	26	0.36	189	2.53
NEBRASKA	51,961	11,534	221	1.92	13,317	115.46	255	2.21	19,685	172.40	25	0.22	609	5.28
NEVADA	43,806	6,872	219	3.19	7,903	115.00	352	3.67	11,974	174.24	49	0.71	979	14.25
NEW HAMPSHIRE	14,545	7,181	188	2.31	3/	3/	191	2.96	2/	2/	2/	4/	2/	4/
NEW JERSEY	33,671	32,217	856	1.66	80,847	154.83	933	1.75	120,589	230.94	236	0.45	6,591	12.81
NEW MEXICO	54,127	11,678	474	4.06	14,956	128.07	585	4.70	23,119	197.97	104	0.89	588	5.04
NEW YORK	109,837	83,783	1,912	2.28	171,851	205.11	2,071	2.47	251,313	299.96	534	0.64	20,485	24.45
NORTH CAROLINA	92,404	45,038	1,083	2.40	53,306	118.36	1,231	2.73	83,994	186.50	221	0.49	2,938	6.52
NORTH DAKOTA	85,811	5,363	105	1.96	3,614	57.39	116	2.16	5,493	102.42	9	0.17	142	2.65
OHIO	112,252	73,214	1,419	1.94	103,402	141.23	1,585	2.16	162,452	221.90	223	0.30	4,616	6.30
OKLAHOMA	110,072	29,565	715	2.42	21,774	73.65	842	2.85	32,232	109.02	81	0.27	738	2.50
OREGON	133,469	20,557	484	2.35	23,067	112.21	548	2.67	37,381	181.84	67	0.33	888	4.32
PENNSYLVANIA	115,601	72,302	1,531	2.12	84,380	116.70	1,706	2.36	126,093	174.40	251	0.35	6,557	9.07
RHODE ISLAND	6,289	6,014	56	1.60	3/	3/	100	1.66	3/	3/	3/	4/	3/	4/
SOUTH CAROLINA	63,264	24,977	739	2.95	15,931	63.78	845	3.38	23,458	93.92	146	0.58	1,051	4.21
SOUTH DAKOTA	73,575	6,317	145	2.31	4,163	65.90	174	2.75	6,255	99.18	20	0.32	139	2.20
TENNESSEE	83,789	36,261	919	2.53	37,629	103.50	1,037	2.85	54,238	149.58	101	0.28	1,542	4.25
TEXAS	275,784	131,883	3,338	2.52	137,695	104.41	3,823	2.90	208,157	157.82	600	0.45	6,022	4.57
UTAH	46,078	11,221	233	2.25	12,317	109.77	283	2.52	18,910	168.82	61	0.54	1,390	12.39
VERMONT	13,994	4,151	86	2.07	9,035	97.21	93	2.24	6,040	143.51	11	0.26	165	3.57
VIRGINIA	65,102	42,299	800	1.89	43,702	103.32	501	2.13	62,026	146.64	129	0.30	2,587	6.12
WASHINGTON	85,731	36,144	628	1.74	40,273	111.42	658	1.93	59,581	169.95	86	0.24	1,610	4.45
WEST VIRGINIA	34,673	11,696	390	3.33	16,190	138.42	434	3.71	25,377	216.97	47	0.40	823	7.04
WISCONSIN	108,225	34,106	548	1.90	38,288	112.26	725	2.13	55,042	161.39	82	0.24	1,970	5.78
WYOMING	38,170	5,059	153	3.02	3,594	71.04	174	3.44	5,511	108.93	14	0.28	131	2.59
SUM 5/	3,879,638	1,549,106	37,956	2.30	1,542,037	117.79	42,996	2.58	2,461,082	176.55	5,514	0.40	103,006	7.39
U. S. TOTAL 5/	3,879,638	1,549,106	37,956	2.30	2,005,438	121.61	42,996	2.58	3,001,120	181.98	6,596	0.40	121,869	7.39

NONFATALITY INJURED PERSON, AND FATALITY AND NONFATALITY INJURED PEDESTRIAN RATES ARE BASED ON A TOTAL TRAVEL OF 1,393,998 MILLION VEHICLE MILES FOR STATES REPORTING THIS DATA.  
 1/ PER 100 MILLION VEHICLE MILES.  
 2/ STATE'S TOTAL NOT SUBMITTED THROUGH HPMS; FARS DATA USED.  
 3/ DATA NOT REPORTED BY STATE.  
 4/ RATE CAN NOT BE COMPUTED.  
 5/ U.S. ESTIMATES ARE SHOWN ON PAGE 5. THE SUM REFLECTS THE TOTAL OF FARS DATA. ESTIMATES OF TRAVEL, INJURY ACCIDENTS, NONFATALITY INJURED PERSONS, AND FATALITY AND NONFATALITY INJURED PEDESTRIANS WERE MADE BY FHWA.  
 DATA SHOWN IN THIS TABLE, SEE FOOTNOTE 3.

#### D. National Trends

In the early 70's, "3 by 80" was a popular safety slogan. The goal to which the slogan referred was the achievement, by 1980, of a national rate below 3 fatalities per 100 million vehicle-miles. While the goal was not reached in 1980, traffic fatality rates in 1982 and 1983 were well below 3.

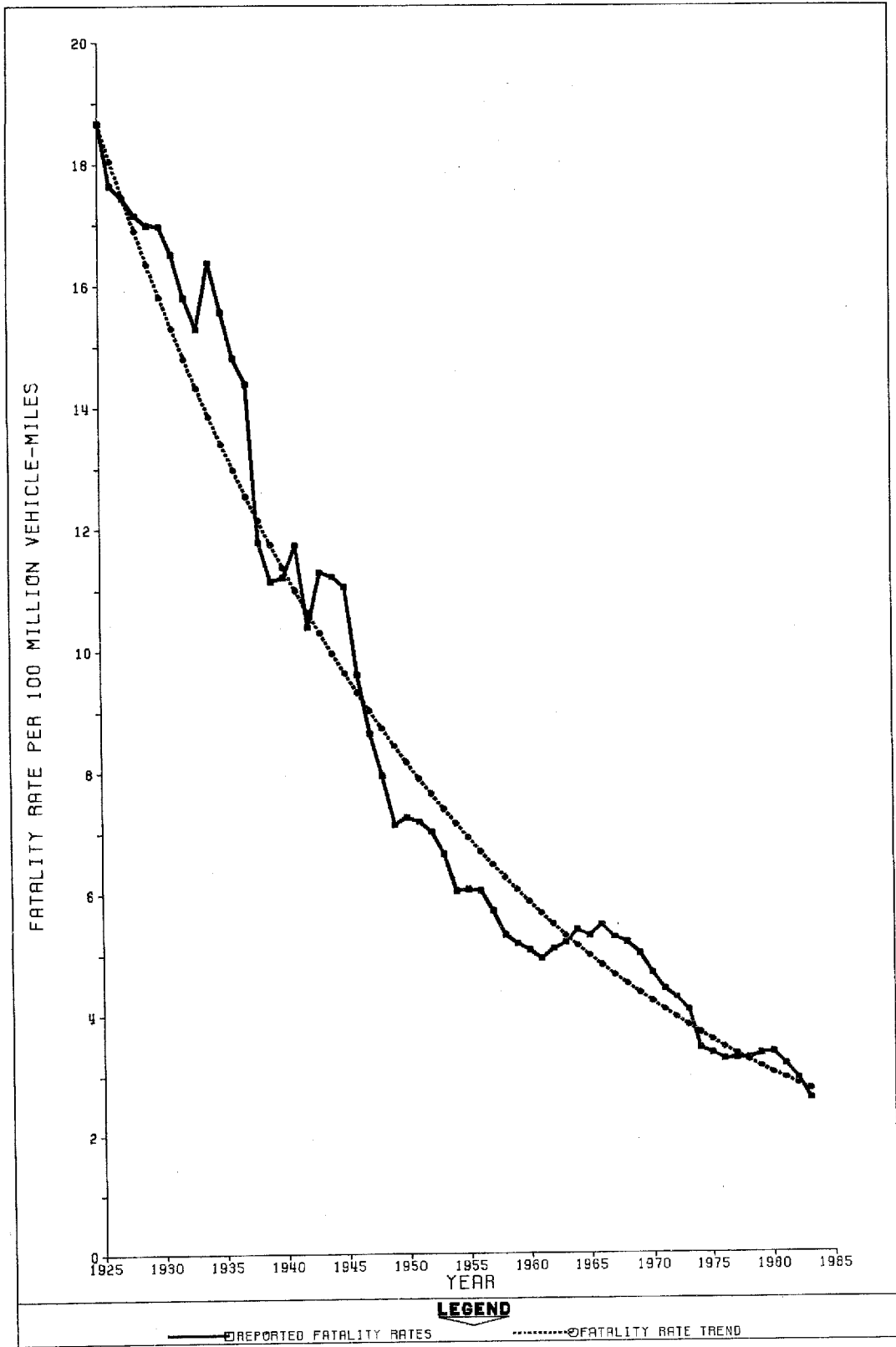
The 1983 drop in the mileage fatality rate was a continuation of a long-term downward trend. From a rate of more than 18 fatalities per 100 million vehicle miles in the mid-20's, as shown in Figure 1, the average rate has gone downwards more than 3 percent per year to a rate well below three fatalities per 100 million vehicle-miles in 1983.

Figures 2 and 3 graphically illustrate national traffic fatality and injury rate trends from 1967 through 1983 for Interstate and other highway systems. Fatality rate trends were gradually downward for all systems during this period. Although these trends were interrupted by relatively stable periods following a sharp drop in 1974, downward movement has resumed. Trends for reported injury rates have also been generally downward during the 1967-1983 period.

Figures 4 and 5 illustrate national fatality and injury rate trends from 1978 through 1983 by highway system. In the mid-70's, non-Interstate Federal-aid highway systems were realigned by adopting functional classifications as the basis for assignment of highways to each system. As a result of these changes, trend data are only available for a short period for most systems. The time period covered in Figures 4 and 5 corresponds largely with the period of relative stability which is apparent in Figures 2 and 3.

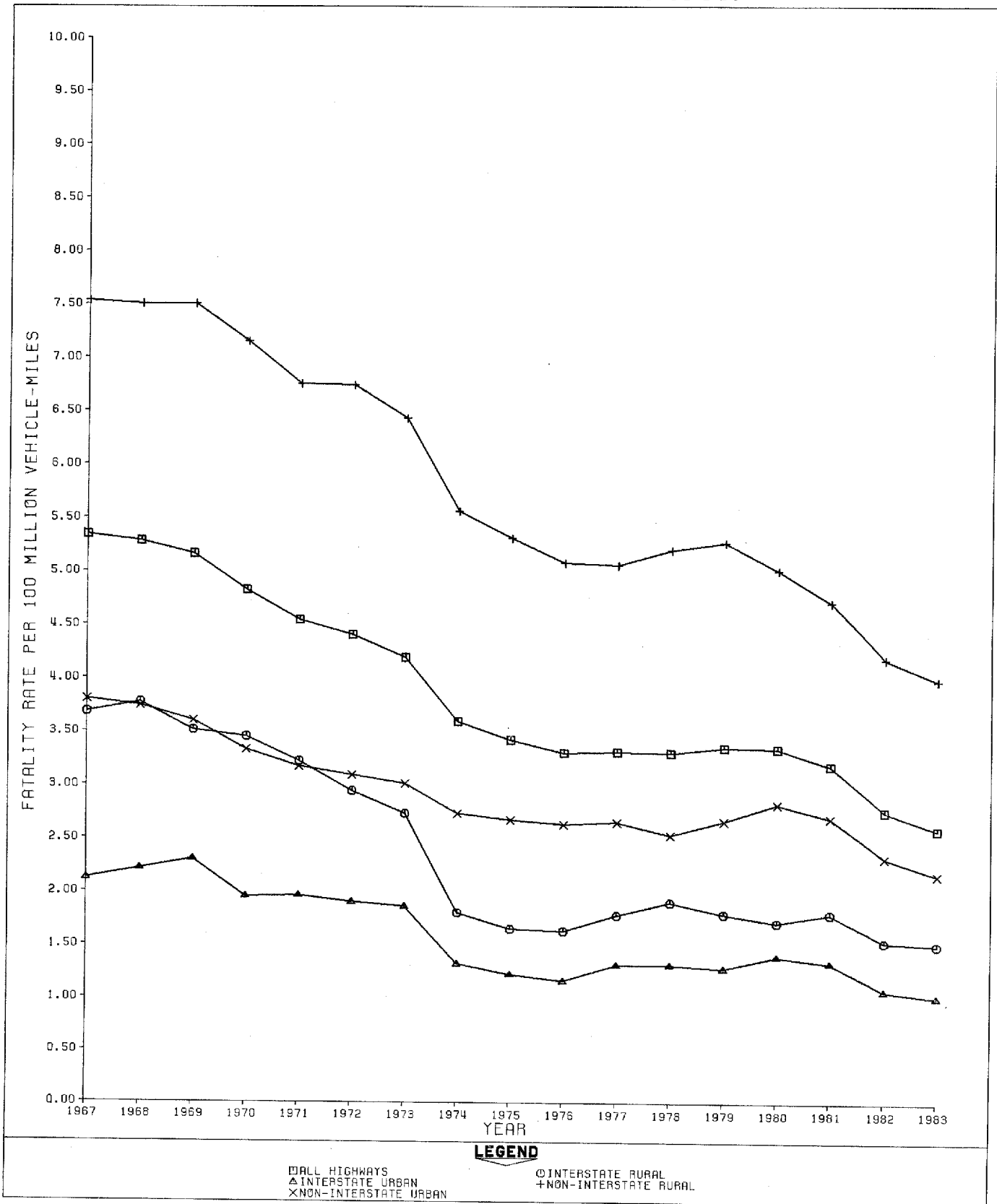
The 1967 through 1981 data used in Figures 3 through 6 were published in the annual Federal Highway Administration reports, "Fatal and Injury Accidents on Federal-Aid and Other Highway Systems."

**FIGURE 1. U.S. MOTOR VEHICLE TRAFFIC FATALITY RATES  
(1925 - 1983)**

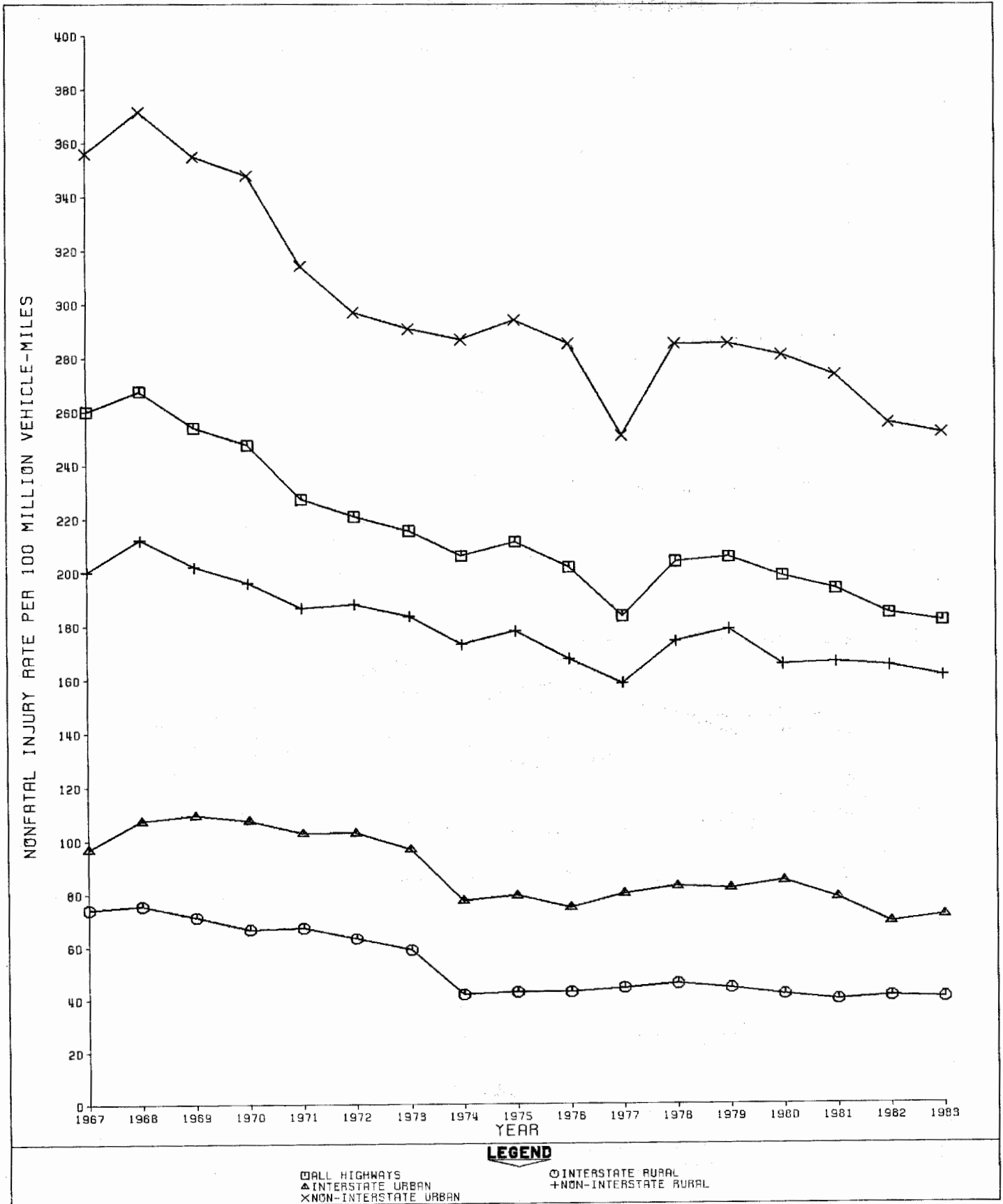




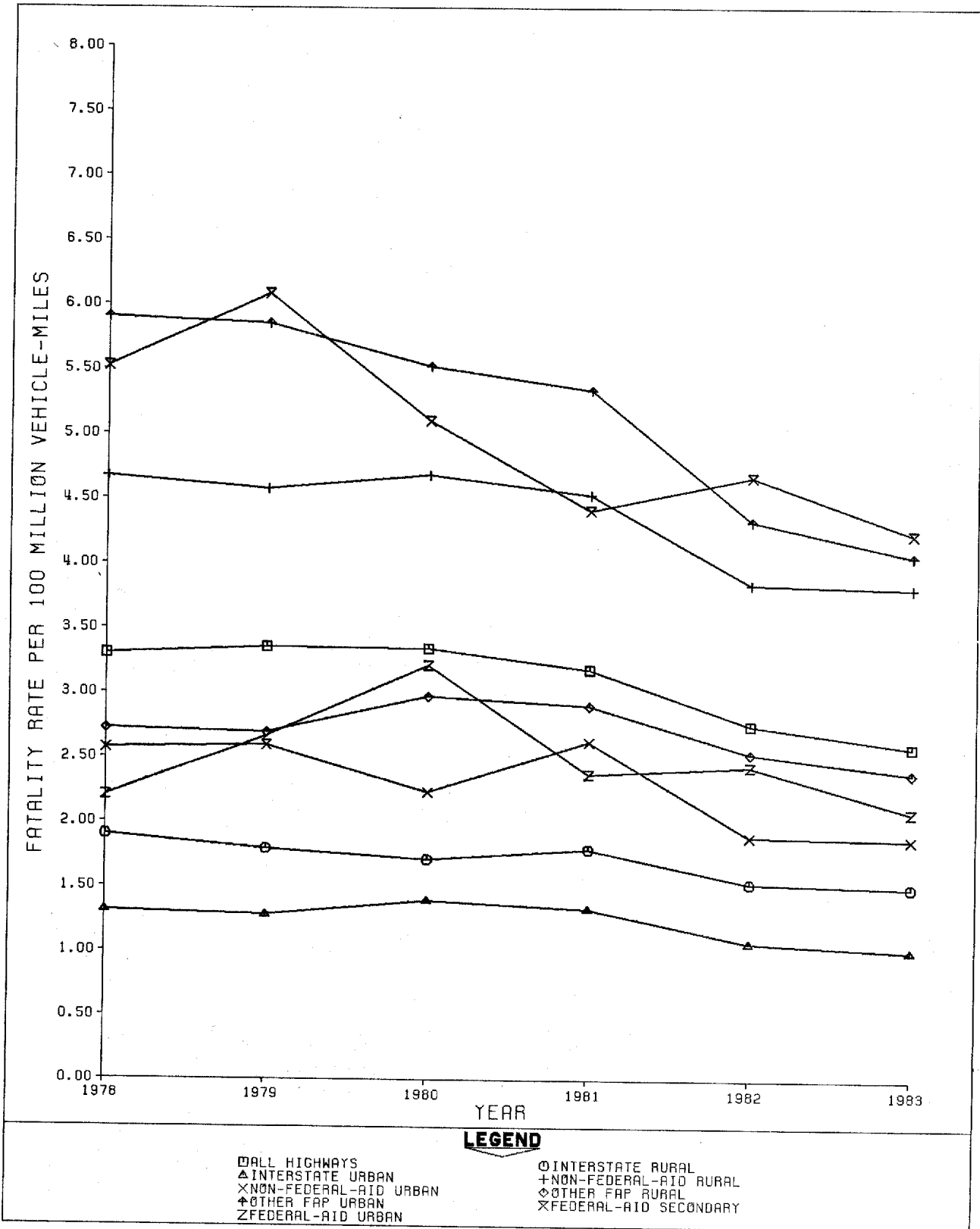
**FIGURE 2. U.S. FATALITY RATES FOR INTERSTATE AND OTHER HIGHWAY SYSTEMS (1967-1983)**



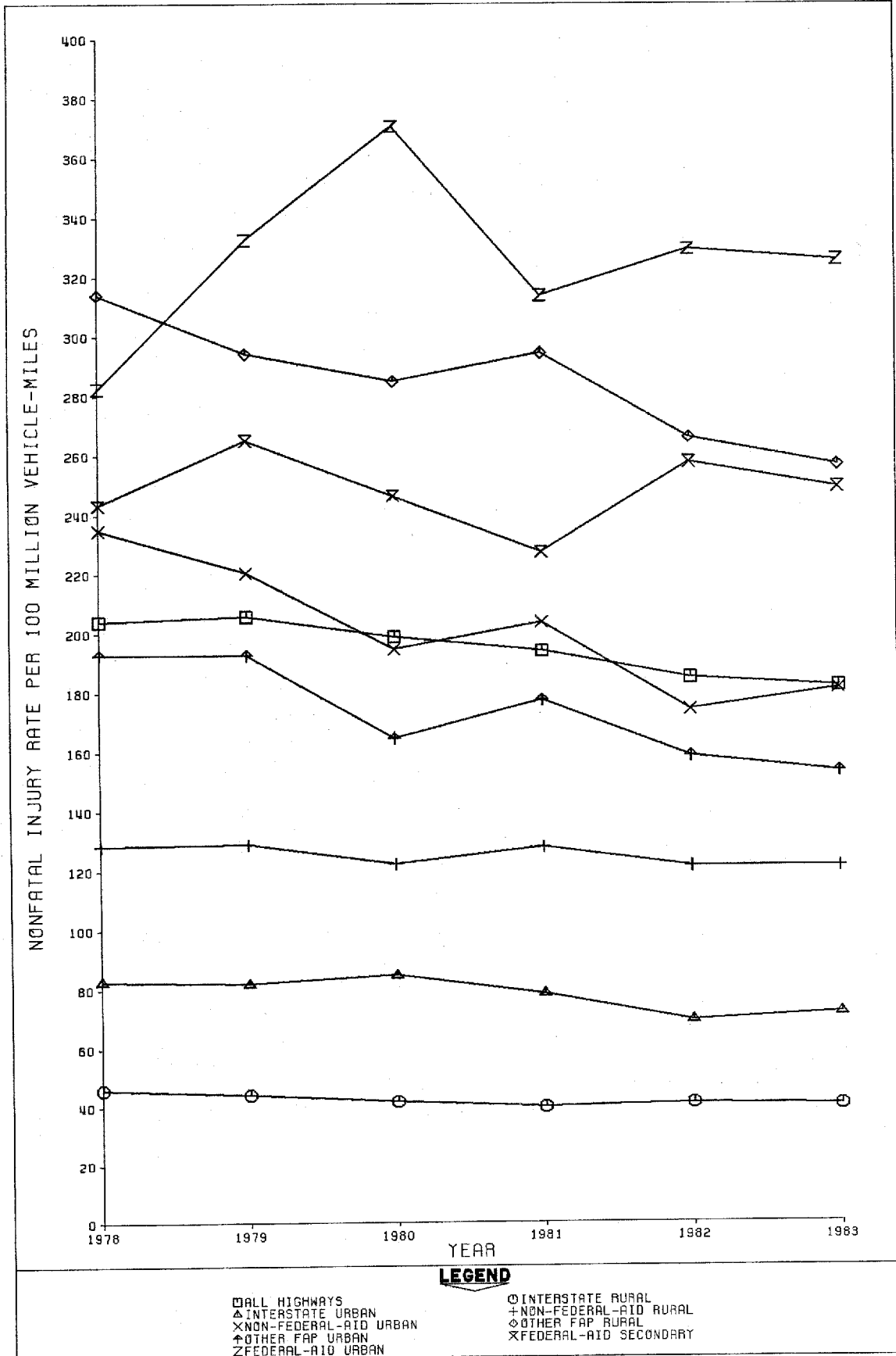
**FIGURE 3. U.S. INJURY RATES  
FOR INTERSTATE AND OTHER  
HIGHWAY SYSTEMS (1967 - 1983)**



**FIGURE 4. U.S. FATALITY RATES BY HIGHWAY SYSTEM (1978 - 1983)**



**FIGURE 5. U.S. NONFATAL INJURY RATES BY HIGHWAY SYSTEM (1978 - 1983)**



## E. Comparison of State Statistics

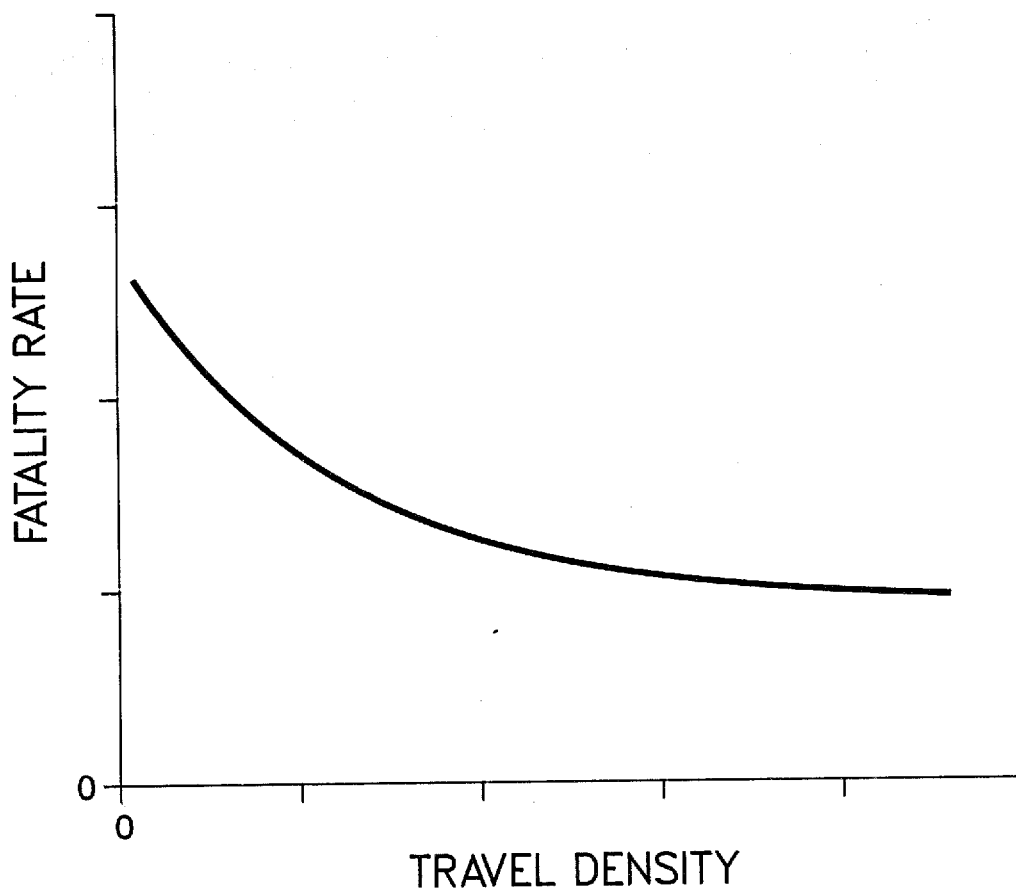
This report was prepared to help meet the need for statistical data to be used in comparing and evaluating the highway safety performance of the States. Those who use the report should be aware of some of the strengths and weaknesses of the data. For the most part, the data have been submitted by State highway departments through the FHWA's Highway Performance Monitoring System. Accident data originate in police accident reporting systems while the collection of travel and highway inventory data is a function of the highway departments themselves. The quality of the reported data is generally high but varies somewhat within the States. As is evident from the tables which follow in Section III, not every State was able to summarize its accident data in time for inclusion in this report.

Because all States report accident and related data to FHWA through a single system with carefully written guidelines, reported data are generally consistent. Differences due to variations in data collection procedures are usually marginal, but occasionally may be large enough to obscure or exaggerate real differences among the States. Evaluation of the highway safety performance of each State should include consideration of its record over a period of time as well as comparisons with other States.

One useful device for comparing fatality rates is the rate-density curve. Other things being equal, fatality rates in terms of fatalities per 100 million vehicle miles tend to be highest where the travel density—the ratio of vehicle-miles to highway miles—is low. The general shape of the rate-density curve—concave upward and sloping downward to the right—is shown in Figure 6. Rate-density curves were used in the 1976 "Highway Safety Needs Study," a DOT report to Congress, to illustrate the fatality rate reduction resulting from the adoption of safer design standards for Interstate highways. Just as fatality rates are normally higher on lightly traveled segments of the Interstate System than on segments where traffic is heavier, large sparsely populated States will normally have higher fatality rates than States with relatively high concentrations of people and traffic.

When basic rate-density relationships are disregarded, evaluation of State highway safety performance is most often based on comparison of State fatality rates with national fatality rates. This tends to focus undue attention on sparsely populated States and encourages complacency in States which have high population and travel densities. A low-density State might have highly effective speed limit enforcement and highway safety improvement programs, for example, but still have fatality rates substantially above those of a high-density State with ineffective safety programs. Rate-density relationships are used as a basis for fatality rate comparisons among States, by system, in Section V and within States, by year, in Section VI.

Figure 6. RELATIONSHIP BETWEEN FATALITY RATES AND TRAVEL DENSITY



## SECTION II--VEHICLE MILEAGE RATES

The most commonly used measures of highway safety are fatality rates based on vehicle mileage. Such rates have been published and widely publicized for about 50 years by the National Safety Council. While other measures are sometimes more appropriate for comparisons and analysis, vehicle mileage rates serve as useful indices. In the tables which follow, rates per 100 million vehicle miles are listed by State and highway system for fatal accidents (Table 3), nonfatal injury accidents (Table 4), fatalities (Table 5), and nonfatally injured persons (Table 6).

The rates shown in these tables are uniformly carried out to two decimal places. This apparent precision surpasses the degree of accuracy of much of the data on which the computed rates are based. Collection and classification of information about miles of highway, vehicle miles of travel, and motor vehicle traffic accidents is a highly complex undertaking. Because of this complexity and the necessity of subjective judgments at many points in the process, the computed rates should be regarded as approximations, not as precise measurements.

**TABLE 3-A. FATAL ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1983**  
**FEDERAL-AID INTERSTATE HIGHWAYS**

STATE	RURAL				STATE	URBAN					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS		
				NUMBER					RATE $\lambda$	NUMBER	RATE $\lambda$
COMPLETE DATA					COMPLETE DATA						
ALABAMA	639	2,850	12,219	42	1.47	151	2,112	30,295	10	0.47	
ALASKA	1,072	1,765	1,955	31	4.05	120	215	29,452	7	3.26	
ARIZONA	1,021	3,078	8,259	71	2.31	123	1,179	26,261	17	1.44	
CALIFORNIA	1,443	9,458	17,957	159	1.68	938	34,545	100,900	214	0.62	
COLORADO	1,788	2,639	9,175	52	1.97	158	2,333	40,454	39	1.67	
CONNECTICUT	108	992	25,165	8	0.81	229	4,846	57,977	62	1.28	
DELAWARE	-	-	-	-	-	41	1,728	48,714	2	0.69	
DIST. OF COL.	-	-	-	-	-	12	361	82,420	2	0.55	
GEORGIA	886	6,278	19,413	47	0.75	236	6,424	59,459	45	0.70	
HAWAII	5	1,500	27,397	4	8.00	31	808	71,410	7	0.87	
IDAHO	536	1,148	5,868	22	1.92	71	361	13,930	2	0.55	
INDIANA	854	4,189	13,439	53	1.27	259	3,442	36,410	24	0.70	
IOWA	614	2,272	10,138	14	0.62	123	849	18,911	18	2.12	
KANSAS	654	1,732	7,256	11	0.64	154	1,321	23,501	10	0.76	
KENTUCKY	379	3,766	17,820	34	0.90	159	2,544	43,836	26	1.02	
LOUISIANA	519	3,428	18,096	42	1.23	167	2,350	38,553	25	1.06	
MICHIGAN	714	3,735	14,335	25	3.75	415	6,930	45,750	45	0.65	
MINNESOTA	696	2,300	9,054	5	0.22	177	3,167	49,021	18	0.57	
MISSISSIPPI	567	1,985	9,591	34	1.71	119	945	21,757	10	1.06	
MISSOURI	824	3,692	12,276	45	1.22	308	5,524	49,137	68	1.23	
MONTANA	444	1,355	3,411	35	2.58	46	131	7,802	3	2.29	
NEBRASKA	502	1,436	8,861	12	0.84	38	482	34,751	5	1.04	
NEVADA	126	1,086	5,927	42	3.87	36	446	33,942	5	1.12	
NEW JERSEY	913	1,453	31,100	3	0.21	253	6,051	65,525	40	0.65	
NEW MEXICO	891	2,343	7,031	67	2.86	87	6,669	21,068	8	1.20	
NEW YORK	881	4,342	13,503	32	0.74	607	10,504	47,410	84	0.80	
NORTH CAROLINA	578	3,771	17,875	41	1.09	186	2,007	29,553	23	1.15	
NORTH DAKOTA	833	1,731	2,757	8	0.55	65	1,129	9,701	1	0.76	
OHIO	880	7,106	22,123	42	0.59	656	11,924	49,134	85	0.71	
OREGON	585	2,586	12,017	31	1.21	153	1,864	38,337	10	0.54	
PENNSYLVANIA	1,186	6,589	15,221	61	0.93	338	5,019	40,682	41	0.82	
SOUTH CAROLINA	647	2,951	12,495	35	1.19	109	1,189	29,886	19	1.60	
SOUTH DAKOTA	636	1,186	5,109	14	1.18	41	147	9,823	0	0.00	
TENNESSEE	825	5,974	19,815	59	0.99	205	3,339	44,524	35	1.05	
TEXAS	2,273	10,125	12,204	212	2.09	843	18,493	60,102	299	1.62	
UTAH	681	1,490	5,994	27	1.81	125	1,766	38,707	19	1.08	
VERMONT	302	713	6,468	3	0.42	18	94	14,307	1	1.05	
VIRGINIA	799	4,558	15,529	47	1.03	226	4,160	50,430	26	0.62	
WASHINGTON	483	2,912	16,518	32	1.10	232	5,491	64,844	34	0.62	
WEST VIRGINIA	389	1,400	9,860	12	0.86	90	712	21,674	9	1.25	
WISCONSIN	465	2,920	17,167	18	0.62	111	1,974	48,723	6	0.30	
WYOMING	868	1,371	4,327	38	2.77	49	1,134	7,492	3	2.24	
SUBTOTAL	28,608	122,737	11,754	1,566	1.28	8,468	157,730	51,032	1,410	0.89	
INCOMPLETE DATA											
ARKANSAS											
FLORIDA											
ILLINOIS											
MAINE											
MARYLAND											
MASSACHUSETTS											
NEW HAMPSHIRE											
OKLAHOMA											
RHODE ISLAND											
$\lambda$ FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.											



**TABLE 3-B. FATAL ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1983**  
**OTHER FEDERAL-AID PRIMARY HIGHWAYS**

STATE	RURAL				STATE	URBAN					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS		
				NUMBER					RATE $\lambda$	NUMBER	RATE $\lambda$
COMPLETE DATA					COMPLETE DATA						
ALABAMA	5,903	6,176	2,866	287	4.65	745	3,394	12,481	52	1.53	
ALASKA	1,013	372	1,006	17	4.57	31	77	6,805	4	9.19	
ARIZONA	3,316	3,162	2,612	134	4.24	172	1,145	18,238	36	3.14	
CALIFORNIA	9,746	18,352	5,159	690	3.76	1,332	23,207	47,733	274	1.19	
COLORADO	4,399	4,059	2,528	149	3.67	561	2,757	13,464	61	2.21	
CONNECTICUT	689	1,683	6,692	44	2.61	576	3,457	16,443	58	1.68	
DELAWARE	332	1,261	10,406	31	2.46	96	673	19,207	17	2.53	
DIST. OF COL.											
GEORGIA	8,665	9,040	2,858	269	2.98	1,412	1,543	26,756	35	2.27	
HAWAII	371	881	6,506	28	3.18	1,412	6,920	13,427	130	1.88	
IDAHO	2,707	1,678	1,598	67	3.99	1,231	1,231	30,384	32	2.60	
INDIANA	4,209	7,293	4,747	178	2.44	42	4,555	12,785	6	3.06	
IOWA	8,177	5,889	1,973	152	2.58	782	1,956	15,958	95	2.09	
KANSAS	7,762	4,822	1,702	125	2.59	338	1,621	10,627	48	1.90	
KENTUCKY	3,279	4,576	3,825	146	3.19	487	1,281	11,032	24	1.26	
LOUISIANA	2,664	5,104	5,249	276	5.41	496	2,952	15,497	38	1.47	
LOUISIANA	4,679	8,287	4,892	176	2.11	1,246	2,778	15,334	60	2.46	
MICHIGAN	8,804	7,291	2,637	142	1.95	481	5,783	21,511	124	1.27	
MINNESOTA	5,295	5,097	2,637	214	4.20	351	1,663	14,433	42	1.66	
MISSISSIPPI	5,370	6,858	2,955	212	3.09	535	3,294	12,981	17	1.02	
MISSOURI	6,941	2,222	1,134	108	4.86	109	4,011	16,869	51	1.55	
MONTANA	1,789	3,578	1,412	89	2.49	277	1,243	10,079	4	1.00	
NEBRASKA	814	961	1,472	35	3.64	59	448	12,294	10	0.80	
NEVADA	2,970	2,970	9,996	76	2.56	645	8,363	20,803	5	1.12	
NEW JERSEY	3,378	2,641	2,142	133	5.04	645	8,363	35,523	133	1.59	
NEW MEXICO	6,479	9,116	3,855	303	3.32	1,877	7,796	11,662	38	4.77	
NEW YORK	3,731	7,433	5,458	180	2.42	1,793	18,933	28,930	309	1.63	
NORTH CAROLINA	5,460	1,726	866	40	2.32	626	4,466	19,546	115	2.58	
NORTH DAKOTA	4,809	8,348	4,756	208	2.49	127	5,491	10,765	5	1.00	
OHIO	4,589	4,474	2,671	163	3.64	1,545	6,801	12,060	136	2.00	
OREGON	8,026	14,589	4,980	448	3.07	395	2,326	16,133	37	1.59	
PENNSYLVANIA	4,945	6,276	3,477	204	3.25	1,995	16,236	23,350	207	1.27	
SOUTH CAROLINA	5,697	2,239	1,077	64	2.86	1,645	3,088	13,117	63	2.04	
SOUTH DAKOTA	5,195	5,829	3,601	259	3.79	800	4,424	15,151	95	0.97	
TENNESSEE	15,061	20,280	3,589	646	3.19	1,666	13,624	22,956	273	2.00	
TEXAS	2,465	1,478	1,543	49	3.32	196	485	12,122	5	1.07	
UTAH	1,043	1,100	2,989	35	3.16	71	221	8,528	1	0.45	
VERMONT	4,343	8,650	4,789	220	2.54	450	2,985	18,174	49	1.54	
VIRGINIA	4,463	5,618	3,449	122	2.17	610	4,367	19,614	77	1.76	
WEST VIRGINIA	2,283	2,733	3,509	135	4.94	181	817	12,367	20	2.45	
WISCONSIN	7,990	9,294	3,187	248	2.67	930	4,550	13,522	60	1.31	
WYOMING	2,861	1,340	1,283	48	3.58	122	358	8,040	7	1.96	
SUBTOTAL	196,687	225,848	3,146	7,150	3.17	23,932	171,726	19,659	2,858	1.66	
INCOMPLETE DATA											
ARKANSAS											
FLORIDA											
ILLINOIS											
ILLINOIS											
MAINE											
MARYLAND											
MASSACHUSETTS											
MASSACHUSETTS											
NEW HAMPSHIRE											
NEW HAMPSHIRE											
OKLAHOMA											
OKLAHOMA											
RHODE ISLAND											
RHODE ISLAND											
$\lambda$ FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.											

**TABLE 3-C. FATAL ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1983**  
**FEDERAL-AID URBAN HIGHWAYS**

STATE	ARTERIAL				STATE	COLLECTOR							
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS				
				NUMBER					RATE 1/	NUMBER	RATE 1/		
COMPLETE DATA					COMPLETE DATA								
ALABAMA	1,372	3,961	7,910	62	1.57	895	928	2,841	40	4.31	ALABAMA	895	928
ALASKA	78	509	17,878	17	3.34	121	103	2,332	2	1.94	ALASKA	121	103
ARIZONA	1,139	4,313	10,374	147	3.41	549	908	4,531	89	1.21	ARIZONA	549	908
CALIFORNIA	11,469	57,452	13,724	1,523	2.65	4,293	5,222	3,333	89	1.70	CALIFORNIA	4,293	5,222
COLORADO	1,874	4,761	6,960	93	1.95	1,227	823	1,838	14	1.70	COLORADO	1,227	823
CONNECTICUT	1,225	3,816	8,535	92	2.41	1,705	1,688	2,712	30	1.78	CONNECTICUT	1,705	1,688
DELAWARE	157	658	11,482	10	1.52	1,48	266	4,924	2	0.75	DELAWARE	1,48	266
DIST. OF COL.	102	502	13,484	9	1.79	145	300	5,668	5	1.67	DIST. OF COL.	145	300
GEORGIA	1,775	4,848	7,483	95	1.96	1,562	3,203	5,618	63	1.97	GEORGIA	1,562	3,203
HAWAII	120	938	21,416	20	2.13	56	222	10,861	4	1.80	HAWAII	56	222
IDAHO	332	1,056	8,688	30	2.84	237	381	4,404	4	0.00	IDAHO	237	381
INDIANA	2,985	6,388	5,863	153	2.40	1,831	1,729	2,587	35	2.02	INDIANA	1,831	1,729
IOWA	1,372	1,772	3,540	32	1.80	478	64	1,903	5	0.78	IOWA	478	64
KANSAS	1,060	2,521	5,516	26	1.03	923	281	1,611	5	1.78	KANSAS	923	281
KENTUCKY	1,089	3,351	7,401	62	1.85	764	76	3,916	70	1.83	KENTUCKY	764	76
LOUISIANA	1,805	2,985	11,928	35	1.17	718	748	2,839	23	9.42	LOUISIANA	718	748
MICHIGAN	2,907	12,930	11,928	322	2.57	1,921	5,294	7,950	21	0.40	MICHIGAN	1,921	5,294
MINNESOTA	1,417	5,038	2,741	27	1.33	718	87	2,792	8	1.50	MINNESOTA	718	87
MISSISSIPPI	1,531	1,711	5,035	23	1.34	593	573	2,370	12	1.55	MISSISSIPPI	593	573
MISSOURI	1,793	6,264	9,571	106	1.72	519	573	3,025	13	2.77	MISSOURI	519	573
MONTANA	235	521	6,074	16	3.07	39	53	1,596	2	3.77	MONTANA	39	53
NEBRASKA	642	1,461	6,235	16	1.10	339	387	2,657	3	0.78	NEBRASKA	339	387
NEVADA	438	1,936	12,110	65	3.36	66	124	5,147	3	2.42	NEVADA	66	124
NEW JERSEY	3,539	12,301	9,523	299	2.43	1,812	3,031	4,583	50	1.65	NEW JERSEY	1,812	3,031
NEW MEXICO	503	1,628	8,867	59	3.62	183	272	4,072	4	1.47	NEW MEXICO	183	272
NEW YORK	5,077	18,284	9,867	523	2.86	3,399	3,990	3,216	103	2.58	NEW YORK	3,399	3,990
NORTH CAROLINA	2,036	7,164	9,640	67	0.94	248	134	1,480	5	3.73	NORTH CAROLINA	248	134
NORTH DAKOTA	195	234	3,288	5	2.14	181	169	2,558	3	1.78	NORTH DAKOTA	181	169
OHIO	3,438	9,540	7,602	217	2.27	3,892	3,182	2,240	109	3.43	OHIO	3,892	3,182
OREGON	1,051	2,781	7,249	61	2.19	918	914	2,728	12	1.31	OREGON	918	914
PENNSYLVANIA	3,661	7,879	5,895	191	2.42	3,102	3,982	3,517	36	0.90	PENNSYLVANIA	3,102	3,982
SOUTH CAROLINA	657	2,189	9,128	41	1.87	509	75	3,547	10	1.52	SOUTH CAROLINA	509	75
SOUTH DAKOTA	255	327	3,513	4	1.22	101	101	2,034	0	0.00	SOUTH DAKOTA	101	101
TENNESSEE	1,272	4,445	9,574	90	2.02	1,089	1,282	2,034	36	2.81	TENNESSEE	1,089	1,282
TEXAS	5,522	20,031	9,920	400	2.00	1,433	1,454	2,780	3	0.21	TEXAS	1,433	1,454
UTAH	522	2,398	12,686	60	0.85	318	116	6,143	3	0.10	UTAH	318	116
VERMONT	136	394	17,131	3	2.50	120	130	2,145	15	0.00	VERMONT	120	130
VIRGINIA	1,895	9,172	11,815	134	1.64	1,012	1,327	3,593	23	1.22	VIRGINIA	1,012	1,327
WASHINGTON	2,309	7,686	9,120	110	1.43	1,863	1,805	2,574	155	7.48	WASHINGTON	1,863	1,805
WEST VIRGINIA	384	1,051	7,499	22	2.09	337	440	3,036	3	0.68	WEST VIRGINIA	337	440
WISCONSIN	1,973	4,614	6,407	48	1.04	816	630	2,115	5	0.93	WISCONSIN	816	630
WYOMING	218	398	5,002	6	1.51	222	190	2,345	1	0.53	WYOMING	222	190
SUBTOTAL	70,271	240,789	9,388	5,363	2.23	41,386	50,540	3,346	1,014	2.01	SUBTOTAL	41,386	50,540
INCOMPLETE DATA											INCOMPLETE DATA		
ARKANSAS											ARKANSAS		
FLORIDA											FLORIDA		
ILLINOIS											ILLINOIS		
ILLINOIS											ILLINOIS		
MAINE											MAINE		
MARYLAND											MARYLAND		
MASSACHUSETTS											MASSACHUSETTS		
MASSACHUSETTS											MASSACHUSETTS		
NEW HAMPSHIRE											NEW HAMPSHIRE		
NEW HAMPSHIRE											NEW HAMPSHIRE		
OKLAHOMA											OKLAHOMA		
OKLAHOMA											OKLAHOMA		
RHODE ISLAND											RHODE ISLAND		

1/ FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.

**TABLE 3-D. FATAL ACCIDENTS  
BY STATE AND HIGHWAY SYSTEM - 1983  
FEDERAL-AID SECONDARY HIGHWAYS**

STATE	COLLECTOR, RURAL				FATAL ACCIDENTS	
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NUMBER	RATE <sup>1/</sup>	
COMPLETE DATA						
ALABAMA	11,250	3,589	874	116	3.23	
ALASKA	1,826	483	725	32	6.63	
ARIZONA	3,167	1,555	1,345	70	4.50	
CALIFORNIA	11,104	6,769	1,670	388	5.73	
COLORADO	3,614	1,146	869	56	4.89	
CONNECTICUT	895	1,008	3,086	33	3.27	
DELAWARE	605	465	2,106	17	3.66	
DIST. OF COL.	-	-	-	-	-	
GEORGIA	14,014	4,822	943	170	3.53	
HAWAII	430	317	2,020	10	3.15	
IDAHO	4,058	1,522	1,028	46	3.02	
INDIANA	9,211	5,426	1,614	142	2.62	
IOWA	13,329	2,315	476	83	3.59	
KANSAS	22,547	2,100	255	55	2.62	
KENTUCKY	7,222	3,806	1,444	188	4.94	
LOUISIANA	7,412	5,154	1,905	154	2.99	
MICHIGAN	19,019	8,463	1,219	227	2.68	
MINNESOTA	16,495	3,271	1,543	59	3.03	
MISSISSIPPI	11,731	3,000	701	102	3.40	
MISSOURI	18,071	4,228	641	156	3.69	
MONTANA	4,705	504	293	32	6.35	
NEBRASKA	11,412	1,087	261	30	2.76	
NEVADA	2,331	1,686	806	29	4.23	
NEW JERSEY	1,718	2,492	3,974	81	3.25	
NEW MEXICO	3,973	1,124	775	73	6.49	
NEW YORK	6,366	4,318	1,858	152	3.52	
NORTH CAROLINA	10,407	8,697	2,290	261	3.00	
NORTH DAKOTA	10,430	669	176	28	4.19	
OHIO	11,782	7,241	1,684	206	2.84	
OREGON	7,746	1,706	603	80	4.69	
PENNSYLVANIA	8,196	5,340	1,785	185	3.48	
SOUTH CAROLINA	8,505	3,806	1,226	174	4.57	
SOUTH DAKOTA	11,223	982	1,215	128	3.17	
TENNESSEE	5,282	1,770	918	104	5.88	
TEXAS	32,722	12,689	1,062	540	4.26	
UTAH	2,571	675	719	28	4.15	
VERMONT	1,953	833	1,169	20	2.40	
VIRGINIA	10,328	4,509	1,302	151	3.08	
WASHINGTON	7,196	5,213	1,985	20	0.38	
WEST VIRGINIA	6,330	3,064	1,326	130	4.24	
WISCONSIN	11,773	3,788	882	95	2.51	
WYOMING	2,279	383	460	22	5.74	
SUBTOTAL	355,228	131,315	1,013	4,614	3.51	
INCOMPLETE DATA						
ARKANSAS						
FLORIDA						
ILLINOIS						
MAINE						
MARYLAND						
MASSACHUSETTS						
NEW HAMPSHIRE						
OKLAHOMA						
RHODE ISLAND						
<sup>1/</sup> FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.						

**TABLE 3-E. FATAL ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1983**

**NONFEDERAL-AID ARTERIAL HIGHWAYS**

STATE	RURAL				STATE	URBAN					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS		
				NUMBER					RATE $\lambda$	NUMBER	RATE $\lambda$
COMPLETE DATA					COMPLETE DATA						
ALABAMA	-	-	-	-	ALABAMA	270	723	7,336	5	0.69	
ALASKA	-	-	-	-	ALASKA	-	-	-	-	-	
ARIZONA	15	17	3,105	1	ARIZONA	41	85	5,680	1	1.48	
CALIFORNIA	31	30	2,651	2	CALIFORNIA	1,282	4,038	8,629	106	2.63	
COLORADO	-	-	-	-	COLORADO	18	83	12,633	0	0.00	
CONNECTICUT	9	18	5,479	1	CONNECTICUT	47	179	10,434	2	1.12	
DELAWARE	-	-	-	-	DELAWARE	-	-	-	-	-	
DIST. OF COL.	-	-	-	-	DIST. OF COL.	12	115	26,256	1	0.87	
GEORGIA	-	-	-	-	GEORGIA	-	-	-	-	-	
HAWAII	11	43	10,710	1	HAWAII	13	58	12,223	0	0.00	
IDAHO	-	-	-	-	IDAHO	8	16	5,479	1	6.25	
ILLINOIS	-	-	-	-	ILLINOIS	12	188	42,922	1	0.53	
INDIANA	35	74	5,793	5	INDIANA	-	-	-	-	-	
IOWA	-	-	-	-	IOWA	222	652	8,046	18	2.76	
KANSAS	48	62	3,939	1	KANSAS	-	-	-	-	-	
KENTUCKY	-	-	-	-	KENTUCKY	440	805	5,012	7	0.87	
LOUISIANA	-	-	-	-	LOUISIANA	164	325	5,426	3	0.92	
MASSACHUSETTS	-	-	-	-	MICHIGAN	48	41	2,340	3	7.32	
MICHIGAN	-	-	-	-	MINNESOTA	-	-	-	-	-	
MINNESOTA	-	-	-	-	MISSISSIPPI	534	1,345	6,901	15	1.12	
MISSISSIPPI	-	-	-	-	MISSOURI	37	64	4,739	0	0.00	
MISSOURI	242	26	294	2	MONTANA	-	-	-	-	-	
MONTANA	9	7	2,131	0	MONTANA	19	88	12,689	1	1.14	
NEBRASKA	80	18	616	0	NEBRASKA	260	3,086	32,518	31	1.00	
NEVADA	-	-	-	-	NEVADA	53	80	4,135	2	2.50	
NEW JERSEY	1	4	10,959	0	NEW JERSEY	123	412	9,177	3	0.73	
NEW MEXICO	119	1,007	23,184	16	NEW MEXICO	1,262	2,092	4,542	20	0.95	
NEW YORK	-	-	-	-	NORTH CAROLINA	3	7	5,393	0	0.00	
NORTH CAROLINA	249	112	1,232	0	NORTH CAROLINA	-	-	-	-	-	
NORTH DAKOTA	-	-	-	-	OHIO	63	290	12,611	2	0.59	
OHIO	-	-	-	-	OHIO	-	-	-	-	-	
OREGON	-	-	-	-	OREGON	-	-	-	-	-	
PENNSYLVANIA	271	130	1,314	5	PENNSYLVANIA	-	-	-	-	-	
RHODE ISLAND	-	-	-	-	RHODE ISLAND	290	442	4,176	11	2.49	
SOUTH CAROLINA	-	-	-	-	SOUTH CAROLINA	10	34	9,315	0	0.00	
SOUTH DAKOTA	14	9	1,751	0	SOUTH DAKOTA	-	-	-	-	-	
TENNESSEE	-	-	-	-	TENNESSEE	1,848	5,639	8,360	293	5.20	
TEXAS	2	7	9,589	0	TEXAS	47	31	1,807	1	3.23	
UTAH	-	-	-	-	UTAH	-	-	-	-	-	
VERMONT	-	-	-	-	VERMONT	55	285	14,197	7	2.46	
VIRGINIA	-	-	-	-	VIRGINIA	11	1	1	0	0.00	
WASHINGTON	309	231	2,048	0	WASHINGTON	149	305	43,836	1	0.00	
WEST VIRGINIA	-	-	-	-	WEST VIRGINIA	10	12	3,288	0	0.00	
WISCONSIN	-	-	-	-	WISCONSIN	7,348	21,537	8,030	535	2.48	
WYOMING	252	96	1,044	1	WYOMING	-	-	-	-	-	
SUBTOTAL	1,697	1,891	3,053	35	SUBTOTAL	7,348	21,537	8,030	535	2.48	
INCOMPLETE DATA					INCOMPLETE DATA						
ARKANSAS	-	-	-	-	ARKANSAS	-	-	-	-	-	
FLORIDA	-	-	-	-	FLORIDA	-	-	-	-	-	
ILLINOIS	-	-	-	-	ILLINOIS	-	-	-	-	-	
MAINE	-	-	-	-	MAINE	-	-	-	-	-	
MARYLAND	-	-	-	-	MARYLAND	-	-	-	-	-	
MASSACHUSETTS	-	-	-	-	MASSACHUSETTS	-	-	-	-	-	
NEW HAMPSHIRE	-	-	-	-	NEW HAMPSHIRE	-	-	-	-	-	
OKLAHOMA	-	-	-	-	OKLAHOMA	-	-	-	-	-	

$\lambda$  FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.

**TABLE 3-F. FATAL ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1983**  
**NONFEDERAL-AID COLLECTOR HIGHWAYS**

STATE	RURAL				STATE	URBAN							
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS				
				NUMBER					RATE 1/	NUMBER	RATE 1/		
COMPLETE DATA													
ALABAMA	7,157	995	390	47	4.72	551	671	2,781	17	2.53	COMPLETE DATA		
ALASKA	143	143	495	5	3.50	39	87	6,112	0	0.00	ALABAMA		
ARIZONA	4,850	593	391	26	3.75	439	557	3,476	11	1.97	ALASKA		
CALIFORNIA	12,078	3,598	814	178	4.96	2,510	3,066	3,347	57	1.86	ARIZONA		
COLORADO	17,365	1,376	217	75	5.45	35	43	3,366	2	4.65	CALIFORNIA		
CONNECTICUT	1,207	451	1,024	15	3.33	197	188	2,615	4	2.13	COLORADO		
DELAWARE	159	50	862	0	0.00	27	29	2,943	1	3.45	CONNECTICUT		
DIST. OF COL.						4	9	6,164	1	11.11	DELAWARE		
GEORGIA	7,337	2,341	874	146	6.24						DIST. OF COL.		
HAWAII	196	145	2,027	6	4.14	88	213	6,631	2	0.94	GEORGIA		
IDAHO	4,867	450	253	7	1.56	71	113	4,360	1	0.88	HAWAII		
INDIANA	10,595	1,482	380	27	1.82	45	53	3,227	1	1.89	IDAHO		
IOWA	16,479	699	116	30	4.29	97	41	1,158	0	0.00	INDIANA		
KANSAS	9,407	262	76	8	3.05	295	329	3,055	0	0.00	IOWA		
KENTUCKY	9,341	1,592	496	83	4.91	131	108	2,259	3	5.55	KANSAS		
LOUISIANA	4,269	1,180	757	38	3.22	159	159	1,190	1	1.89	KENTUCKY		
MICHIGAN	7,929	1,610	553	51	3.17	366	366	1,895	6	0.76	LOUISIANA		
MINNESOTA	12,158	1,989	233	34	3.44	2,902	554	1,895	5	0.76	MICHIGAN		
MISSISSIPPI	2,878	249	237	1	0.40	1,224	1,447	3,239	18	1.24	MINNESOTA		
MISSOURI	5,492	305	182	10	3.28	873	935	2,534	11	1.18	MISSISSIPPI		
MONTANA	11,305	268	182	18	4.95	117	76	1,780	2	2.63	MISSOURI		
NEBRASKA	9,315	263	77	3	3.42						MONTANA		
NEVADA	2,483	150	166	6	4.00						NEBRASKA		
NEW JERSEY	1,230	1,106	2,349	24	2.17	340	276	2,224	9	3.26	NEVADA		
NEW MEXICO	3,176	253	218	20	7.91	94	31	904	5	16.13	NEW JERSEY		
NEW YORK	11,039	3,843	954	113	2.94	202	90	1,221	2	2.22	NEW MEXICO		
NORTH CAROLINA	9,417	2,614	761	121	4.63	378	166	1,203	3	1.81	NEW YORK		
NORTH DAKOTA	8,135	215	72	8	3.72	1,054	703	1,810	6	0.85	NORTH CAROLINA		
OHIO	7,525	2,742	998	58	2.12	19	19	2,263	0	0.00	NORTH DAKOTA		
OREGON	9,079	1,054	318	19	1.80	174	161	2,535	1	0.62	OHIO		
PENNSYLVANIA	9,049	2,393	725	63	2.63						OREGON		
SOUTH CAROLINA	4,018	476	325	35	7.95						PENNSYLVANIA		
SOUTH DAKOTA	7,347	171	64	5	2.92	611	355	1,592	7	1.97	SOUTH CAROLINA		
TENNESSEE	11,281	2,722	551	59	2.17	47	41	2,390	0	0.00	SOUTH DAKOTA		
TEXAS	20,698	2,321	307	96	4.14						TENNESSEE		
UTAH	4,920	187	104	9	4.81	3,740	4,136	3,030	82	1.98	TEXAS		
VERMONT	1,024	153	408	5	3.27	261	213	2,236	5	2.35	UTAH		
VIRGINIA	2,953	351	408	22	6.27						VERMONT		
WASHINGTON	5,469	1,811	767	6	0.33	30	13	1,187	0	0.00	VIRGINIA		
WEST VIRGINIA	2,132	318	337	4	1.26	28	18	1,761	2	11.11	WASHINGTON		
WISCONSIN	6,696	935	383	40	4.28	2	9	12,329	0	0.00	WEST VIRGINIA		
WYOMING	7,602	382	138	8	2.09	931	403	2,079	0	0.00	WISCONSIN		
SUBTOTAL	291,087	43,528	410	1,535	3.53	16,784	15,443	2,521	264	1.71	WYOMING		
INCOMPLETE DATA											SUBTOTAL		
ARKANSAS											INCOMPLETE DATA		
FLORIDA											ARKANSAS		
ILLINOIS											FLORIDA		
MAINE											ILLINOIS		
MARYLAND											MAINE		
MASSACHUSETTS											MARYLAND		
NEW HAMPSHIRE											MASSACHUSETTS		
OKLAHOMA											NEW HAMPSHIRE		
RHODE ISLAND											OKLAHOMA		

1/ FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.

TABLE 3-G. FATAL ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1983

NONFEDERAL-AID LOCAL HIGHWAYS

STATE	RURAL				STATE	URBAN					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	FATAL ACCIDENTS			HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS		
			NUMBER	RATE 1/					NUMBER	RATE 1/	
COMPLETE DATA					COMPLETE DATA						
ALABAMA	48,648	2,805	188	55	1.96	9,857	2,828	786	63	2.93	
ALASKA	2,626	354	389	18	5.08	1,048	1,250	654	2	0.80	
ARIZONA	55,065	1,613	80	51	3.16	6,437	1,306	556	40	3.06	
CALIFORNIA	75,928	4,197	151	180	4.29	41,879	12,728	833	229	1.80	
COLORADO	38,337	1,423	102	32	2.55	7,047	2,666	1,036	19	0.71	
CONNECTICUT	5,968	771	354	33	4.28	6,679	1,533	629	22	1.44	
DELAWARE	2,678	377	386	12	3.18	1,037	1,378	999	3	0.79	
DIST. OF COL.	-	-	-	-	-	669	269	1,102	10	3.72	
GEORGIA	55,638	1,888	93	126	6.67	13,370	3,073	630	63	2.05	
HAWAII	1,932	264	374	5	1.89	933	703	2,064	12	1.71	
IDAHO	54,026	779	40	41	5.26	1,491	587	1,079	8	1.36	
INDIANA	49,037	1,760	98	85	4.83	11,781	3,258	758	75	2.30	
IOWA	65,379	1,456	61	44	3.02	5,210	1,065	560	8	0.75	
KANSAS	41,527	1,229	40	56	4.56	5,773	1,481	703	22	1.49	
KENTUCKY	91,375	1,794	119	65	3.62	4,854	1,403	792	39	1.57	
LOUISIANA	30,532	1,672	145	84	5.15	8,892	1,225	377	39	3.18	
MICHIGAN	60,033	1,513	95	107	8.92	15,538	1,910	321	86	1.42	
MINNESOTA	80,368	2,832	79	48	2.06	9,082	2,118	639	14	0.56	
MISSISSIPPI	43,456	1,064	67	168	15.51	4,757	1,415	815	46	3.25	
MISSOURI	73,415	2,607	97	78	2.93	9,951	1,911	250	39	4.28	
MONTANA	46,691	647	38	31	4.75	1,677	820	1,340	2	0.24	
NEBRASKA	59,313	1,095	51	38	3.47	3,180	502	432	9	0.79	
NEVADA	33,697	264	21	13	4.92	2,045	403	540	6	1.49	
NEW JERSEY	7,451	785	289	39	4.97	15,748	9,541	1,660	69	0.72	
NEW MEXICO	38,236	726	52	42	5.79	3,226	1,056	894	26	2.45	
NEW YORK	48,669	3,521	198	121	3.44	25,026	6,354	696	166	2.61	
NORTH CAROLINA	50,994	2,893	156	164	5.67	11,906	2,952	679	80	2.71	
NORTH DAKOTA	59,747	714	33	8	1.12	938	251	733	3	1.20	
OHIO	57,831	6,952	310	115	1.76	19,884	9,758	1,345	243	2.49	
OREGON	102,827	1,402	37	37	2.64	889	889	432	25	2.92	
PENNSYLVANIA	51,055	5,137	231	111	2.16	5,683	5,138	414	187	3.64	
SOUTH CAROLINA	35,148	2,613	198	114	4.36	6,160	9,933	738	26	2.79	
SOUTH DAKOTA	45,679	1,524	31	26	4.98	1,010	223	605	1	0.45	
TENNESSEE	49,567	4,854	97	107	6.84	8,562	3,912	1,252	74	1.89	
TEXAS	142,136	4,851	90	284	5.05	47,848	18,233	1,052	200	1.09	
UTAH	30,351	509	45	18	3.54	3,701	1,292	956	17	1.32	
VERMONT	6,770	372	116	15	4.03	1,597	375	977	3	1.54	
VIRGINIA	33,769	2,893	235	75	5.03	8,927	3,795	1,155	46	1.22	
WASHINGTON	52,367	544	28	48	8.82	9,900	678	188	42	6.19	
WEST VIRGINIA	20,546	920	123	40	4.35	1,898	216	312	15	6.94	
WISCONSIN	67,486	1,648	67	101	6.13	9,308	3,005	884	25	0.83	
WYOMING	22,756	239	29	17	7.11	853	125	384	2	1.60	
SUBTOTAL	1,944,886	89,811	98	2,849	4.08	374,450	111,538	816	2,110	1.89	
INCOMPLETE DATA											
ARKANSAS											
FLORIDA											
ILLINOIS											
MAINE											
MARYLAND											
MASSACHUSETTS											
NEW HAMPSHIRE											
OKLAHOMA											
RHODE ISLAND											

1/ FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.

**TABLE 4-A. NONFATAL INJURY ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1983**  
**FEDERAL-AID INTERSTATE HIGHWAYS**

STATE	RURAL				URBAN						
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS		
				NUMBER	RATE $\lambda$				NUMBER	RATE $\lambda$	
COMPLETE DATA											
ALABAMA	639	2,850	12,219	444	15.58	191	2,112	30,295	493	23.34	
ALASKA	1,072	1,955	1,955	531	65.41	20	215	25,452	130.23		
ARIZONA	1,021	3,078	8,259	999	32.46	123	1,179	26,261	84.48		
CALIFORNIA	1,443	9,458	17,957	2,305	24.37	938	34,545	106,900	32.06		
COLORADO	1,788	2,639	9,175	1,152	43.65	158	40,454	40,454	85.04		
CONNECTICUT	108	992	25,165	296	23.84	229	4,846	57,977	55.34		
DELAWARE	-	-	-	-	-	41	729	48,714	2,682	23.87	
DIST. OF COL.	-	-	-	-	-	12	82,420	82,420	304	84.21	
GEORGIA	886	6,278	19,413	749	11.93	296	6,424	59,459	2,935	45.59	
HAWAII	5	50	27,397	47	94.00	31	808	71,410	686	84.90	
IDAHO	535	1,148	5,868	360	31.36	71	361	13,930	142	39.34	
INDIANA	854	4,189	13,439	1,092	26.07	259	3,442	36,410	644	18.71	
IOWA	614	2,272	10,138	434	19.10	123	849	18,911	505	59.60	
KANSAS	654	1,732	7,255	466	26.91	154	1,321	23,501	835	63.29	
KENTUCKY	579	3,756	17,820	677	17.98	159	2,344	43,836	861	33.84	
LOUISIANA	519	3,428	18,056	809	23.80	167	2,350	38,553	1,545	65.74	
MICHIGAN	714	3,736	14,336	1,870	50.05	415	6,930	45,750	3,041	43.88	
MINNESOTA	696	2,300	9,054	258	11.22	177	3,167	49,021	1,675	52.89	
MISSISSIPPI	567	1,985	9,591	291	14.66	119	945	21,757	174	18.41	
MISSOURI	824	3,692	12,276	721	19.53	308	5,524	49,137	2,250	40.73	
MONTANA	1,089	1,444	3,411	469	34.59	45	131	7,802	318	30.53	
NEBRASKA	502	1,086	5,927	303	21.10	38	482	34,731	318	65.98	
NEVADA	126	1,453	5,927	426	39.23	36	446	33,942	378	84.75	
NEW JERSEY	913	2,343	31,100	195	13.42	253	6,051	65,526	2,378	39.30	
NEW MEXICO	881	4,342	7,031	856	36.53	87	569	21,068	432	64.57	
NORTH CAROLINA	578	3,771	13,503	2,083	47.97	607	10,504	47,410	6,340	60.36	
NORTH DAKOTA	533	731	3,757	99	13.54	185	2,007	29,563	515	25.56	
OHIO	880	7,106	22,123	1,285	18.10	655	11,944	9,301	37	28.58	
OREGON	585	2,565	12,017	1,469	18.28	133	1,864	49,134	5,414	45.33	
PENNSYLVANIA	1,185	6,589	15,221	1,756	26.65	339	5,019	38,337	2,765	41.94	
SOUTH CAROLINA	647	2,951	12,496	342	11.59	109	1,189	29,886	2,249	45.25	
SOUTH DAKOTA	636	1,186	5,109	251	21.16	41	147	9,823	48	32.65	
TENNESSEE	825	5,974	19,815	848	14.19	205	3,339	44,624	1,629	48.79	
TEXAS	2,273	10,125	12,204	2,555	25.23	843	18,493	60,102	13,758	74.40	
UTAH	681	1,490	5,994	554	37.18	125	1,766	38,707	818	46.32	
VERMONT	302	1,713	5,468	203	28.47	18	54	14,307	39	41.49	
VIRGINIA	795	4,558	15,629	1,057	23.19	226	4,160	50,430	1,656	39.81	
WASHINGTON	483	2,912	16,518	693	23.80	232	5,491	64,844	2,546	46.37	
WEST VIRGINIA	389	1,400	9,860	326	23.29	90	712	21,674	312	43.82	
WISCONSIN	466	2,920	17,167	582	19.93	111	1,974	48,723	1,002	50.76	
WYOMING	868	1,371	4,327	642	46.83	49	134	7,482	45	33.58	
SUBTOTAL	28,608	122,737	11,754	30,389	24.76	8,468	157,730	51,032	74,274	47.09	
INCOMPLETE DATA											
ARKANSAS											
FLORIDA											
ILLINOIS											
INDIANA											
MAINE											
MARYLAND											
MASSACHUSETTS											
NEW HAMPSHIRE											
OKLAHOMA											
RHODE ISLAND											
$\lambda$ NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.											

**TABLE 4-B. NONFATAL INJURY ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1983**  
**OTHER FEDERAL-AID PRIMARY HIGHWAYS**

STATE	RURAL				STATE	URBAN					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS		
				NUMBER					RATE <sup>1/</sup>	NUMBER	RATE <sup>1/</sup>
COMPLETE DATA					COMPLETE DATA						
ALABAMA	5,903	6,176	2,856	3,316	53.69	745	3,394	12,481	1,933	55.95	
ALASKA	1,013	372	1,006	308	82.80	31	77	6,805	188	244.16	
ARIZONA	3,316	3,162	2,512	1,463	45.27	172	1,145	18,238	3,265	285.15	
CALIFORNIA	9,746	18,352	5,159	10,298	56.11	1,332	23,207	47,733	13,990	60.28	
COLORADO	4,339	4,059	2,528	2,541	65.07	561	2,757	13,464	4,358	158.07	
CONNECTICUT	689	1,683	6,692	1,675	99.52	576	3,457	16,443	5,912	171.02	
DELAWARE	332	1,261	10,406	590	46.79	96	673	19,207	977	145.17	
DIST. OF COL.						158	1,543	26,756	3,295	213.55	
GEORGIA	8,565	9,040	2,858	4,993	55.23	1,412	6,920	13,427	10,011	144.67	
HAWAII	371	881	6,506	850	95.48	111	1,231	30,384	1,724	140.05	
IDAHO	2,707	1,678	1,598	1,174	69.96	42	1,195	12,785	289	147.45	
INDIANA	4,209	7,293	4,747	6,659	51.44	782	4,555	15,959	6,094	137.79	
IOWA	8,177	5,889	3,373	3,373	47.28	686	2,661	10,627	5,231	198.83	
KANSAS	7,762	4,822	1,702	2,406	49.90	338	1,361	11,032	2,267	166.57	
KENTUCKY	3,279	4,578	3,825	3,532	77.15	457	2,585	15,497	2,859	110.60	
LOUISIANA	2,564	5,104	5,249	3,215	62.99	496	2,776	15,334	7,096	255.62	
MICHIGAN	4,679	8,257	4,893	10,987	131.47	1,246	9,783	21,511	3,376	34.51	
MINNESOTA	8,804	7,291	2,269	2,288	45.10	481	1,563	14,433	3,114	122.89	
MISSISSIPPI	5,295	5,097	2,637	2,405	47.18	351	1,653	12,981	825	49.61	
MISSOURI	6,359	6,858	2,955	3,696	53.89	535	3,294	16,869	3,248	98.60	
MONTANA	5,370	2,222	1,134	1,663	74.84	109	401	10,079	553	137.91	
NEBRASKA	6,941	3,578	1,412	1,651	46.14	277	1,243	12,294	2,234	179.73	
NEVADA	1,789	961	1,472	2,904	59.83	59	448	20,803	247	55.13	
NEW JERSEY	814	2,970	9,996	2,904	97.78	645	8,363	35,523	11,210	134.04	
NEW MEXICO	3,378	2,641	2,142	1,355	51.31	187	796	11,662	1,935	243.09	
NEW YORK	6,479	9,116	3,855	19,546	215.51	1,793	18,933	28,930	24,231	127.98	
NORTH CAROLINA	3,731	7,433	5,458	3,958	53.79	626	4,465	19,546	3,281	73.47	
NORTH DAKOTA	5,460	1,726	866	500	34.76	127	459	10,765	649	130.06	
OHIO	4,809	8,348	4,756	6,571	78.71	1,545	6,801	12,060	14,657	219.51	
OREGON	4,589	4,474	2,671	3,219	71.95	395	2,326	16,133	3,441	147.94	
PENNSYLVANIA	8,026	14,589	4,980	11,720	80.33	1,905	16,236	23,350	14,137	87.07	
SOUTH CAROLINA	4,915	6,276	3,077	2,757	43.93	645	3,088	13,117	3,739	121.08	
SOUTH DAKOTA	5,657	2,239	1,077	2,915	40.87	115	459	10,935	780	169.93	
TENNESSEE	5,195	6,829	3,501	4,523	66.38	800	4,424	15,151	6,101	137.91	
TEXAS	15,061	20,280	3,689	8,756	43.18	1,626	13,624	22,556	15,387	113.01	
UTAH	2,465	1,478	1,643	866	58.59	106	463	12,122	483	102.99	
VERMONT	1,043	1,100	2,889	895	81.36	71	221	8,528	316	142.59	
VIRGINIA	4,949	8,650	4,789	5,753	66.51	450	2,985	18,174	3,648	122.21	
WASHINGTON	4,463	5,618	3,449	6,520	117.84	510	4,367	19,614	4,734	108.40	
WEST VIRGINIA	2,263	2,733	3,309	3,297	120.64	181	817	12,367	1,302	159.36	
WISCONSIN	7,990	5,294	3,187	5,443	58.56	930	4,590	13,522	6,081	132.48	
WYOMING	2,861	1,340	1,283	713	53.21	122	358	8,040	462	129.05	
SUBTOTAL	196,687	225,848	3,146	161,329	71.43	23,932	171,726	19,659	199,730	116.31	
INCOMPLETE DATA											
ARKANSAS											
FLORIDA											
ILLINOIS											
MAINE											
MARYLAND											
MASSACHUSETTS											
NEW HAMPSHIRE											
OKLAHOMA											
RHODE ISLAND											

<sup>1/</sup> NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.



**TABLE 4-C. NONFATAL INJURY ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1983**

**FEDERAL-AID URBAN HIGHWAYS**

STATE	ARTERIAL				COLLECTOR						
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS	RATE $\lambda$	STATE	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS	
										NUMBER	RATE $\lambda$
COMPLETE DATA						COMPLETE DATA					
ALABAMA	1,372	3,961	7,910	2,645	66.78	ALABAMA	895	928	2,841	2,591	279.20
ALASKA	78	509	17,878	1,230	241.65	ALASKA	121	103	2,332	1,153	148.54
ARIZONA	1,139	4,313	10,374	14,261	330.65	ARIZONA	549	908	4,531	1,339	147.47
CALIFORNIA	11,469	57,452	13,724	90,268	157.12	CALIFORNIA	4,293	5,222	3,333	5,309	101.67
COLORADO	1,874	4,761	6,960	9,472	198.95	COLORADO	1,273	823	1,838	1,658	201.46
CONNECTICUT	1,225	3,816	8,535	9,717	254.64	CONNECTICUT	1,705	1,688	2,712	4,388	259.95
DELAWARE	157	658	11,482	1,001	152.13	DELAWARE	148	266	4,924	331	124.44
DIST. OF COL.	102	502	13,484	1,302	259.36	DIST. OF COL.	145	300	5,668	1,341	447.00
GEORGIA	1,775	4,848	7,483	7,347	151.55	GEORGIA	1,562	3,203	5,618	4,807	150.08
HAWAII	120	938	21,416	2,037	217.16	HAWAII	56	222	10,861	4,473	213.06
IDAHO	333	1,056	8,688	1,893	179.26	IDAHO	237	381	4,404	342	89.76
INDIANA	2,985	6,388	5,863	10,434	153.24	INDIANA	1,831	1,729	2,587	2,451	141.76
IOWA	1,372	1,773	3,540	3,527	198.93	IOWA	523	641	1,903	518	80.81
KANSAS	1,089	2,521	8,516	4,490	178.10	KANSAS	478	281	1,611	408	145.20
KENTUCKY	1,105	3,351	8,431	5,948	177.50	KENTUCKY	764	1,092	3,916	1,605	146.98
LOUISIANA	2,907	2,985	7,401	6,199	207.67	LOUISIANA	748	775	2,839	1,02	13.16
MICHIGAN	1,417	12,550	11,828	9,495	75.66	MICHIGAN	1,921	5,294	7,550	1,256	23.72
MINNESOTA	931	5,038	9,741	7,865	156.11	MINNESOTA	748	535	2,792	857	160.19
MISSISSIPPI	1,793	1,711	5,035	1,501	87.73	MISSISSIPPI	519	647	2,370	415	84.14
MISSOURI	235	6,264	9,571	12,168	194.25	MISSOURI	573	677	3,025	1,140	198.95
MONTANA	642	521	6,074	934	179.27	MONTANA	91	53	1,596	218	411.32
NEBRASKA	438	1,461	6,235	4,344	297.33	NEBRASKA	399	387	2,657	907	234.37
NEVADA	3,539	1,936	4,047	4,047	209.04	NEVADA	66	124	5,147	137	110.48
NEW JERSEY	503	12,301	9,523	36,768	298.90	NEW JERSEY	1,812	3,031	4,583	7,671	253.08
NEW MEXICO	5,077	1,628	8,867	4,597	282.37	NEW MEXICO	3,389	272	4,072	4,429	161.40
NEW YORK	1,195	18,284	9,867	36,097	197.42	NEW YORK	3,999	3,990	3,216	5,423	135.51
NORTH DAKOTA	438	234	3,288	3,582	248.72	NORTH DAKOTA	181	169	2,558	250	147.93
OHIO	3,438	9,540	7,502	25,370	272.22	OHIO	3,992	914	2,240	12,595	395.82
OREGON	1,931	2,781	7,249	7,182	258.25	OREGON	918	914	2,728	1,839	201.20
PENNSYLVANIA	3,651	7,879	5,896	15,396	195.41	PENNSYLVANIA	3,102	3,982	3,517	2,620	65.80
SOUTH CAROLINA	657	327	9,128	1,677	176.61	SOUTH CAROLINA	509	659	3,547	270	40.97
SOUTH DAKOTA	255	4,445	3,513	469	143.42	SOUTH DAKOTA	101	75	2,034	88	117.33
TENNESSEE	1,572	20,031	9,920	8,725	196.29	TENNESSEE	1,099	1,282	3,196	2,284	178.16
TEXAS	5,592	20,031	12,586	18,989	194.85	TEXAS	1,433	1,494	2,780	99	6.81
UTAH	922	2,398	7,131	4,566	190.41	UTAH	318	713	6,143	1,205	169.00
VERMONT	136	394	7,131	411	116.10	VERMONT	130	116	2,445	169	145.69
VIRGINIA	1,895	8,172	11,615	14,160	173.27	VIRGINIA	1,012	1,327	3,593	2,542	191.56
WASHINGTON	2,309	7,686	9,120	8,590	111.76	WASHINGTON	1,663	1,805	2,974	10,783	597.40
WEST VIRGINIA	384	1,051	7,499	2,138	203.43	WEST VIRGINIA	397	440	3,036	356	80.91
WISCONSIN	1,973	4,614	5,407	3,366	72.95	WISCONSIN	816	630	2,115	799	125.83
WYOMING	218	398	5,002	305	76.63	WYOMING	222	190	2,345	213	112.11
SUBTOTAL	68,235	233,625	9,380	402,123	172.12	SUBTOTAL	41,138	50,406	3,357	82,391	163.45
INCOMPLETE DATA						INCOMPLETE DATA					
ARKANSAS						ARKANSAS					
FLORIDA						FLORIDA					
ILLINOIS						ILLINOIS					
MAINE						MAINE					
MARYLAND						MARYLAND					
MASSACHUSETTS						MASSACHUSETTS					
NEW HAMPSHIRE						NEW HAMPSHIRE					
NORTH CAROLINA						NORTH CAROLINA					
OKLAHOMA						OKLAHOMA					
RHODE ISLAND						RHODE ISLAND					
$\lambda$ / NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.											

**TABLE 4-D. NONFATAL INJURY ACCIDENTS  
BY STATE AND HIGHWAY SYSTEM - 1983**  
FEDERAL-AID SECONDARY HIGHWAYS

STATE	COLLECTOR, RURAL				
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS	
				NUMBER	RATE <sup>1/</sup>
COMPLETE DATA					
ALABAMA	11,250	3,589	874	1,904	53.05
ALASKA	1,826	483	725	573	118.63
ARIZONA	3,167	1,555	1,345	1,022	65.72
CALIFORNIA	11,104	6,769	1,670	15,416	227.74
COLORADO	3,614	1,146	869	1,101	96.07
CONNECTICUT	895	1,008	3,086	1,217	120.73
DELAWARE	605	465	2,106	362	77.85
DIST. OF COL.	-	-	-	-	-
GEORGIA	14,014	4,822	943	2,897	60.08
HAWAII	430	317	2,020	353	111.36
IDAHO	4,058	1,522	1,028	842	55.32
INDIANA	9,211	5,426	1,614	5,319	98.03
IOWA	13,329	2,315	476	1,842	79.57
KANSAS	22,547	2,100	255	1,571	74.81
KENTUCKY	7,222	3,806	1,444	4,605	120.99
LOUISIANA	7,412	1,905	1,444	5,439	105.93
MICHIGAN	19,019	8,463	1,219	488	5.77
MINNESOTA	16,495	3,271	543	2,202	67.32
MISSISSIPPI	11,731	3,000	701	1,081	36.03
MISSOURI	18,071	4,228	641	3,579	84.65
MONTANA	4,705	504	293	390	77.38
NEBRASKA	11,412	1,087	261	896	82.43
NEVADA	2,331	686	806	459	66.91
NEW JERSEY	1,718	2,492	3,974	2,966	119.02
NEW MEXICO	3,973	1,124	1,775	1,026	91.28
NEW YORK	6,366	4,318	1,858	12,944	299.77
NORTH CAROLINA	10,407	8,697	2,290	6,409	73.69
NORTH DAKOTA	10,430	669	176	365	54.56
OHIO	11,782	7,241	1,684	7,845	108.34
OREGON	7,746	1,706	1,603	2,020	118.41
PENNSYLVANIA	8,196	5,340	1,789	5,964	111.69
SOUTH CAROLINA	8,505	3,806	1,226	2,159	56.73
SOUTH DAKOTA	11,223	882	215	417	47.28
TENNESSEE	5,282	1,770	918	3,419	193.16
TEXAS	32,722	12,689	1,062	8,806	69.40
UTAH	2,671	675	1,062	8,806	79.70
VERMONT	1,953	833	1,169	538	112.85
VIRGINIA	10,328	4,909	1,302	6,504	132.49
WASHINGTON	7,196	5,213	1,985	1,060	20.33
WEST VIRGINIA	6,330	3,064	1,326	4,083	133.26
WISCONSIN	11,773	3,788	882	5,734	151.37
WYOMING	2,279	383	460	279	72.85
SUBTOTAL	355,228	131,315	1,013	127,036	96.74
INCOMPLETE DATA					
ARKANSAS					
FLORIDA					
ILLINOIS					
MAINE					
MARYLAND					
MASSACHUSETTS					
NEW HAMPSHIRE					
OKLAHOMA					
RHODE ISLAND					
<sup>1/</sup> NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.					

**TABLE 4-E. NONFATAL INJURY ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1983**  
**NONFEDERAL-AID ARTERIAL HIGHWAYS**

STATE	RURAL				URBAN					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS NUMBER	RATE $\lambda$	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS NUMBER	RATE $\lambda$
COMPLETE DATA										
ALABAMA	-	-	-	-	-	270	723	7,336	278	38.45
ALASKA	-	-	-	-	-	-	-	-	-	-
ARIZONA	15	17	3,105	10	58.82	41	85	5,660	54	75.29
CALIFORNIA	31	30	2,651	127	423.33	1,282	4,038	8,629	6,771	167.68
COLORADO	-	-	-	-	-	18	83	12,633	69	83.13
CONNECTICUT	9	18	5,479	25	138.89	47	179	10,434	232	129.61
DELAWARE	-	-	-	-	-	-	-	-	-	-
DIST. OF COL.	-	-	-	-	-	12	115	26,256	209	181.74
GEORGIA	-	-	-	-	-	-	-	-	-	-
HAWAII	11	43	10,710	65	151.16	13	58	12,223	183	281.03
IDAHO	-	-	-	-	-	8	16	5,479	54	337.50
ILLINOIS	-	-	-	-	-	12	188	42,922	70	37.23
INDIANA	35	74	5,793	187	252.70	-	-	-	-	-
IOWA	48	62	3,539	27	43.55	222	652	8,046	1,643	251.99
KANSAS	-	-	-	-	-	-	-	-	-	-
KENTUCKY	-	-	-	-	-	-	-	-	-	-
LOUISIANA	-	-	-	-	-	440	805	5,012	250	32.30
MASSACHUSETTS	-	-	-	-	-	164	325	5,429	370	113.85
MICHIGAN	-	-	-	-	-	48	41	2,340	136	331.71
MINNESOTA	-	-	-	-	-	-	-	-	-	-
MISSISSIPPI	-	-	-	-	-	534	1,345	6,901	2,906	216.06
MISSOURI	242	26	294	4	15.38	37	64	4,739	54	100.00
MONTANA	9	7	2,131	18	257.14	-	-	-	-	-
NEBRASKA	80	18	616	3	16.67	19	88	12,689	71	80.68
NEVADA	-	-	-	-	-	260	3,086	32,518	1,503	51.94
NEW JERSEY	1	4	10,959	2	50.00	53	80	4,135	435	543.75
NEW MEXICO	119	1,007	23,184	440	43.69	123	412	9,177	1,200	291.26
NEW YORK	-	-	-	-	-	3	7	6,353	0	0.00
NORTH DAKOTA	-	-	-	-	-	63	290	12,611	73	25.17
OHIO	-	-	-	-	-	-	-	-	-	-
OREGON	-	-	-	-	-	-	-	-	-	-
PENNSYLVANIA	271	130	1,314	126	96.92	-	-	-	-	-
RHODE ISLAND	-	-	-	-	-	290	442	4,176	593	134.16
SOUTH CAROLINA	-	-	-	-	-	10	34	9,315	90	264.71
SOUTH DAKOTA	-	-	-	-	-	-	-	-	-	-
TENNESSEE	14	9	1,761	0	0.00	1,848	5,639	8,360	1,081	19.17
TEXAS	2	7	9,589	5	71.43	47	31	1,807	53	170.97
UTAH	-	-	-	-	-	-	-	-	-	-
VERMONT	-	-	-	-	-	55	285	14,197	26	9.12
VIRGINIA	-	-	-	-	-	11	1	4,249	0	0.00
WASHINGTON	309	231	2,048	0	0.00	16	16	43,836	17	106.25
WEST VIRGINIA	-	-	-	-	-	145	305	5,763	280	91.80
WISCONSIN	-	-	-	-	-	10	12	3,288	0	0.00
WYOMING	-	-	-	-	-	-	-	-	-	-
SUBTOTAL	1,448	1,779	1,044	98	102.08	6,086	19,445	8,754	18,811	96.74
INCOMPLETE DATA										
ARKANSAS	-	-	-	1,137	63.91	-	-	-	-	-
FLORIDA	-	-	-	-	-	-	-	-	-	-
ILLINOIS	-	-	-	-	-	-	-	-	-	-
MAINE	-	-	-	-	-	-	-	-	-	-
MARYLAND	-	-	-	-	-	-	-	-	-	-
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-
NEW HAMPSHIRE	-	-	-	-	-	-	-	-	-	-
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-
OKLAHOMA	-	-	-	-	-	-	-	-	-	-
$\lambda$ NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.										

TABLE 4-F. NONFATAL INJURY ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1983

NONFEDERAL-AID COLLECTOR HIGHWAYS

STATE	RURAL					STATE	URBAN						
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS			HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS			
				NUMBER	RATE 1/					NUMBER	RATE 1/		
COMPLETE DATA						COMPLETE DATA							
ALABAMA	7,167	995	380	951	95.58	ALABAMA	661	671	2,781	1,111	165.57		
ALASKA	898	143	436	177	123.78	ALASKA	39	87	6,112	101	116.09		
ARIZONA	4,850	693	391	239	34.49	ARIZONA	499	557	3,476	1,087	195.15		
CALIFORNIA	12,078	814	814	11,219	312.68	CALIFORNIA	2,510	3,066	3,347	3,641	118.75		
COLORADO	17,365	217	1,376	1,748	127.03	COLORADO	35	43	3,366	121	281.40		
CONNECTICUT	11,207	451	1,024	1,704	156.10	CONNECTICUT	197	188	2,615	387	205.85		
DELAWARE	159	50	862	63	126.00	DELAWARE	27	29	2,943	19	65.52		
DIST. OF COL.						DIST. OF COL.	4	9	6,164	48	533.33		
GEORGIA	7,337	2,341	874	2,602	111.15	GEORGIA	88	213	6,631	147	69.01		
HAWAII	196	145	2,027	98	67.59	HAWAII	71	113	4,360	72	63.72		
IDAHO	4,867	450	253	132	29.33	IDAHO	45	53	3,227	70	132.08		
INDIANA	10,695	1,482	380	974	65.72	INDIANA	97	41	1,158	33	80.49		
IOWA	15,479	599	116	666	95.28	IOWA	295	329	3,055	530	161.09		
KANSAS	9,407	252	75	172	55.55	KANSAS	131	108	2,239	249	230.56		
KENTUCKY	9,341	496	496	2,107	124.53	KENTUCKY	131	159	1,190	22	13.84		
LOUISIANA	4,269	1,180	757	1,230	104.24	LOUISIANA	366	654	895	873	133.49		
MICHIGAN	7,829	563	563	9,135	567.39	MICHIGAN	2,002	1,447	3,239	2,755	190.39		
MINNESOTA	12,158	989	223	7,769	77.76	MINNESOTA	1,224	-	-	-	-		
MISSISSIPPI	2,878	249	237	8	3.21	MISSISSIPPI	873	935	2,934	1,895	202.67		
MISSOURI	5,492	305	152	194	63.61	MISSOURI	117	76	1,780	12	15.79		
MONTANA	11,305	358	89	273	74.18	MONTANA	-	-	-	-	-		
NEBRASKA	9,315	253	77	324	123.19	NEBRASKA	-	-	-	-	-		
NEVADA	2,483	150	166	76	50.57	NEVADA	340	276	2,224	502	181.88		
NEW JERSEY	1,290	1,106	2,349	1,110	100.36	NEW JERSEY	94	31	904	130	419.35		
NEW MEXICO	3,175	253	218	218	86.17	NEW MEXICO	202	90	1,221	700	777.78		
NEW YORK	11,039	3,843	954	12,720	330.99	NEW YORK	378	166	1,203	423	254.82		
NORTH DAKOTA	8,135	3,215	72	125	58.60	NORTH DAKOTA	23	19	2,263	40	210.53		
OHIO	7,525	2,742	998	1,923	70.13	OHIO	174	161	2,535	250	155.28		
OREGON	9,079	1,084	318	1,371	35.20	OREGON	-	-	-	-	-		
PENNSYLVANIA	9,049	2,393	725	3,261	136.27	PENNSYLVANIA	-	-	-	-	-		
SOUTH CAROLINA	4,018	476	325	194	40.76	SOUTH CAROLINA	611	355	1,592	372	104.79		
SOUTH DAKOTA	7,347	171	64	93	54.99	SOUTH CAROLINA	47	41	2,390	93	226.83		
TENNESSEE	11,281	2,722	661	311	11.43	SOUTH DAKOTA	-	-	-	-	-		
TEXAS	20,698	2,321	307	1,308	56.36	TENNESSEE	-	-	-	-	-		
UTAH	4,920	2,157	104	167	89.30	TEXAS	3,740	4,136	3,030	30	0.73		
VERMONT	1,024	152	409	177	115.89	UTAH	261	213	2,236	402	188.73		
VIRGINIA	2,953	351	405	577	164.59	VERMONT	-	-	-	-	-		
WASHINGTON	6,469	1,811	767	138	7.62	VIRGINIA	30	13	1,197	29	223.08		
WEST VIRGINIA	2,192	318	397	361	113.52	WASHINGTON	28	18	1,761	164	911.11		
WISCONSIN	6,695	935	383	396	42.35	WEST VIRGINIA	531	403	12,329	3	33.33		
WYOMING	7,602	382	138	142	37.17	WISCONSIN	38	31	2,079	833	132.26		
SUBTOTAL	281,670	40,914	398	57,454	140.43	WYOMING	38	31	2,235	0	0.00		
INCOMPLETE DATA						SUBTOTAL	15,720	14,740	2,569	16,844	114.27		
ARKANSAS						INCOMPLETE DATA							
FLORIDA						ARKANSAS							
ILLINOIS						FLORIDA							
ILLINOIS						ILLINOIS							
MAINE						MAINE							
MARYLAND						MARYLAND							
MASSACHUSETTS						MASSACHUSETTS							
NEW HAMPSHIRE						NEW HAMPSHIRE							
NORTH CAROLINA						NORTH CAROLINA							
OKLAHOMA						OKLAHOMA							
RHODE ISLAND						RHODE ISLAND							
1/ NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.													

**TABLE 4-G. NONFATAL INJURY ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1983**  
**NONFEDERAL-AID LOCAL HIGHWAYS**

STATE	RURAL				STATE	URBAN					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS		
				NUMBER					RATE 1/	NUMBER	RATE 1/
COMPLETE DATA					COMPLETE DATA						
ALABAMA	48,648	2,805	158	952	33,94	9,857	2,828	786	6,094	215.49	
ALASKA	2,625	354	359	870	245.76	1,048	250	654	26.40		
ARIZONA	53,055	1,613	80	3,116	193.18	6,437	1,306	556	3,822	292.55	
CALIFORNIA	75,327	4,197	151	11,348	270.34	41,879	12,728	833	14,528	114.93	
COLORADO	38,337	1,423	102	1,158	81.38	7,047	2,666	1,036	2,341	87.91	
CONNECTICUT	5,968	771	354	1,222	158.50	6,679	1,533	629	3,777	246.38	
DELAWARE	2,678	377	386	634	168.17	1,037	269	999	447	118.25	
DIST. OF COL.						569	269	1,102	2,595	964.68	
GEORGIA	55,638	1,888	93	2,243	118.80	13,370	3,073	630	4,724	153.73	
HAWAII	1,932	254	374	425	160.98	933	703	2,064	1,196	170.13	
IDAH0	54,025	779	40	1,123	144.16	1,491	587	1,079	825	140.95	
INDIANA	49,037	1,760	98	3,184	180.91	11,781	3,258	560	5,251	161.17	
IOWA	65,279	1,456	61	977	67.10	1,065	1,065	560	882	82.92	
KANSAS	83,527	1,229	40	1,869	152.07	5,773	1,481	703	3,006	202.97	
KENTUCKY	41,275	1,794	119	2,515	140.19	4,854	1,225	792	2,784	198.43	
LOUISIANA	30,932	1,632	145	4,867	298.22	8,852	1,940	377	13,938	1,137.80	
MICHIGAN	60,033	1,213	55	13,702	1,129.60	16,538	1,940	321	36,299	1,871.08	
MINNESOTA	80,368	2,332	79	653	28.00	9,082	2,118	639	2,887	136.31	
MISSISSIPPI	43,455	1,064	67	1,703	150.06	4,757	1,415	815	1,152	61.41	
MISSOURI	73,415	2,607	97	3,526	135.25	9,981	911	250	1,084	118.99	
MONTANA	46,691	647	38	1,215	187.79	1,677	820	1,340	276	33.66	
NEBRASKA	59,313	1,095	51	1,342	122.56	3,180	502	432	398	198.80	
NEVADA	33,597	264	21	125	47.35	3,180	403	432	398	212.90	
NEW JERSEY	7,451	785	289	1,978	251.97	15,748	9,541	1,660	11,494	120.47	
NEW MEXICO	38,236	726	52	1,975	134.30	3,236	1,056	894	1,988	188.26	
NEW YORK	48,669	3,521	198	22,339	634.45	25,026	6,354	696	28,405	447.04	
NORTH DAKOTA	59,747	3,714	33	464	64.99	938	251	733	402	160.16	
OHIO	57,831	6,552	310	5,974	91.18	19,884	9,758	1,342	21,167	216.92	
OREGON	102,827	1,402	37	775	55.28	5,828	889	832	2,537	235.38	
PENNSYLVANIA	51,055	5,137	231	5,662	110.22	19,083	5,138	736	21,523	420.26	
SOUTH CAROLINA	36,148	2,613	198	1,914	69.42	6,180	223	414	1,765	189.17	
SOUTH DAKOTA	46,879	524	31	551	105.15	1,010	3,912	605	368	165.02	
TENNESSEE	49,267	1,554	87	3,302	211.13	8,562	3,912	1,292	6,377	163.01	
TEXAS	142,158	4,691	90	10,171	216.82	47,848	18,393	1,053	56,730	308.43	
UTAH	30,351	4,509	46	513	100.79	3,701	1,292	956	2,152	166.56	
VERMONT	8,770	372	115	673	180.91	547	195	977	212	108.72	
VIRGINIA	33,769	2,893	235	3,301	114.10	8,927	3,765	1,155	4,449	118.17	
WASHINGTON	52,367	944	28	1,010	185.65	9,300	678	312	2,935	580.38	
WEST VIRGINIA	20,546	920	123	2,477	269.24	1,898	216	312	1,515	702.78	
WISCONSIN	67,486	1,648	67	4,169	252.97	9,308	3,005	884	9,903	323.58	
WYOMING	22,755	1,239	29	394	164.85	893	125	384	301	240.80	
SUBTOTAL	1,894,192	66,918	97	125,309	187.26	362,544	108,586	821	285,225	262.67	
INCOMPLETE DATA					INCOMPLETE DATA						
ARKANSAS					ARKANSAS						
FLORIDA					FLORIDA						
ILLINOIS					ILLINOIS						
MAINE					MAINE						
MARYLAND					MARYLAND						
MASSACHUSETTS					MASSACHUSETTS						
NEW HAMPSHIRE					NEW HAMPSHIRE						
NORTH CAROLINA					NORTH CAROLINA						
OKLAHOMA					OKLAHOMA						
RHODE ISLAND					RHODE ISLAND						
1/ NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.											

**TABLE 5-A. FATALITIES BY STATE AND HIGHWAY SYSTEM - 1983**

**FEDERAL-AID INTERSTATE HIGHWAYS**

STATE	RURAL				STATE	URBAN							
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	FATALITIES			HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES				
			NUMBER	RATE 1/					NUMBER	RATE 1/			
COMPLETE DATA													
ALABAMA	639	2,850	12,219	45	1.58	191	2,112	30,295	13	0.62			
ALASKA	1,072	765	1,955	36	4.71	20	215	29,432	7	3.26			
ARIZONA	1,021	3,078	8,259	84	2.73	123	1,179	26,261	16	1.36			
CALIFORNIA	1,443	9,458	17,957	197	2.08	938	34,545	100,900	232	0.67			
COLORADO	788	2,639	9,175	55	2.08	158	2,333	40,454	40	1.71			
CONNECTICUT	108	992	25,165	9	0.91	229	4,846	57,977	73	1.51			
DELAWARE	-	-	-	-	-	41	729	48,714	7	0.96			
DIST. OF COL.	-	-	-	-	-	12	361	82,420	2	0.55			
GEORGIA	886	6,278	19,413	57	0.91	256	6,424	55,459	56	0.87			
HAWAII	5	50	27,397	4	8.00	31	808	71,410	7	0.87			
IDAHO	536	1,148	5,868	24	2.09	71	361	13,930	7	0.55			
INDIANA	854	4,189	13,439	71	1.69	259	3,442	36,410	26	0.76			
IOWA	614	2,272	10,138	18	0.79	123	849	18,911	23	2.71			
KANSAS	654	1,732	7,256	14	0.81	154	1,321	23,501	12	0.91			
KENTUCKY	579	3,765	17,820	42	1.12	159	2,544	43,856	27	1.06			
LOUISIANA	519	3,428	18,056	44	1.28	117	2,350	38,553	29	1.23			
MICHIGAN	714	3,736	14,336	26	0.70	415	6,930	45,750	51	0.74			
MINNESOTA	596	2,300	9,054	6	0.26	177	3,167	49,021	18	0.57			
MISSISSIPPI	567	1,985	9,591	38	1.91	119	945	21,757	11	1.16			
MISSOURI	824	3,692	12,276	52	1.41	308	5,524	49,137	77	1.39			
MONTANA	1,089	1,356	3,411	43	3.17	46	131	7,802	3	1.24			
NEBRASKA	444	1,436	8,861	14	0.97	38	482	34,751	6	1.24			
NEVADA	502	1,086	5,927	50	4.60	36	446	33,942	7	1.57			
NEW JERSEY	128	1,453	31,100	3	0.21	233	6,051	55,526	43	0.71			
NEW MEXICO	913	2,343	7,031	72	3.07	87	869	21,088	10	1.49			
NEW YORK	891	4,342	13,503	37	0.85	607	10,504	47,410	94	0.89			
NORTH CAROLINA	578	3,771	17,875	51	1.35	186	2,007	29,563	26	1.30			
NORTH DAKOTA	533	731	3,757	5	0.68	38	129	9,301	1	0.78			
OHIO	880	7,106	22,123	53	0.75	656	11,944	49,134	93	0.78			
OREGON	585	2,565	12,017	37	1.44	133	1,864	38,337	10	0.54			
PENNSYLVANIA	1,185	6,589	15,221	68	1.03	338	5,019	40,682	47	0.94			
SOUTH CAROLINA	647	2,951	12,436	44	1.49	109	1,189	29,896	19	1.60			
SOUTH DAKOTA	636	1,186	5,109	19	1.60	41	147	9,853	0	0.00			
TENNESSEE	826	5,974	19,815	70	1.17	205	3,339	44,624	43	1.29			
TEXAS	2,273	10,125	12,204	243	2.40	843	18,493	60,102	343	1.85			
UTAH	681	1,490	5,994	31	2.08	125	1,766	38,707	23	1.30			
VERMONT	302	1,713	6,468	3	0.42	18	94	14,307	1	1.06			
VIRGINIA	799	4,558	15,629	57	1.25	236	4,160	50,430	28	0.67			
WASHINGTON	483	2,912	16,318	34	1.17	222	5,491	64,844	36	0.55			
WEST VIRGINIA	389	1,400	9,860	14	1.00	50	712	21,674	11	1.54			
WISCONSIN	466	2,920	17,167	20	0.68	111	1,574	48,723	6	0.30			
WYOMING	868	1,371	4,327	39	2.84	49	134	7,452	4	2.99			
SUBTOTAL	28,608	122,737	11,754	1,829	1.49	8,458	157,730	51,032	1,583	1.00			
INCOMPLETE DATA													
ARKANSAS													
FLORIDA													
ILLINOIS													
MAINE													
MARYLAND													
MASSACHUSETTS													
NEW HAMPSHIRE													
OKLAHOMA													
RHODE ISLAND													

1/ FATALITIES PER 100 MILLION VEHICLE MILES.

**TABLE 5-B. FATALITIES BY STATE AND HIGHWAY SYSTEM - 1983**  
**OTHER FEDERAL-AID PRIMARY HIGHWAYS**

STATE	RURAL				URBAN							
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES			
				NUMBER	RATE $\lambda$				NUMBER	RATE $\lambda$		
COMPLETE DATA												
ALABAMA	5,903	6,176	2,866	334	5.41	745	3,394	12,481	65	1.92		
ALASKA	1,013	3,372	1,006	120	4.38	31	77	6,805	5	6.49		
ARIZONA	3,516	3,162	2,006	157	5.97	172	1,145	18,238	38	3.32		
CALIFORNIA	9,746	18,352	5,159	855	4.66	1,332	23,207	47,733	296	1.28		
COLORADO	4,399	4,059	2,528	171	4.21	561	2,757	13,464	66	2.39		
CONNECTICUT	689	1,683	6,692	47	2.79	576	3,457	16,443	64	1.85		
DELAWARE	332	1,261	10,406	37	-	96	673	19,207	20	2.97		
DIST. OF COL.	-	-	-	-	-	158	1,543	26,756	40	2.59		
GEORGIA	8,665	9,040	2,858	317	3.51	1,412	6,920	13,427	157	2.27		
HAWAII	371	891	6,506	33	3.75	111	1,231	30,384	33	2.68		
IDAHO	2,707	1,678	1,698	85	5.07	42	196	12,785	7	3.57		
INDIANA	4,209	7,293	4,747	217	2.98	782	4,955	15,958	106	2.33		
IOWA	8,177	5,889	1,973	186	3.16	686	2,661	10,627	55	2.07		
KANSAS	7,762	4,822	1,702	151	3.13	338	1,361	11,032	25	1.84		
KENTUCKY	3,279	3,825	3,825	167	3.65	457	2,585	15,457	43	1.66		
LOUISIANA	2,664	4,578	5,249	323	6.33	496	2,776	15,334	67	2.41		
MICHIGAN	4,679	8,357	4,893	206	2.46	1,246	9,783	21,511	133	1.36		
MINNESOTA	8,804	7,291	2,269	176	2.41	981	2,534	14,433	42	1.66		
MISSISSIPPI	5,295	5,097	2,637	263	5.16	391	1,663	12,981	20	1.20		
MISSOURI	6,355	6,858	2,985	241	3.51	535	3,294	16,869	56	1.70		
MONTANA	5,370	3,578	1,134	125	5.63	109	401	10,079	4	1.00		
NEBRASKA	6,941	3,578	1,412	112	3.13	277	1,243	12,254	10	0.80		
NEVADA	1,789	961	1,472	44	4.58	59	448	20,803	7	1.56		
NEW JERSEY	814	2,970	9,996	87	2.93	645	8,363	35,523	149	1.78		
NEW MEXICO	3,378	2,641	2,142	168	6.36	187	796	11,652	45	5.78		
NEW YORK	6,479	9,116	3,855	344	3.77	1,793	18,923	28,930	344	1.82		
NORTH CAROLINA	3,731	7,432	5,458	220	2.96	626	4,466	19,546	122	2.73		
NORTH DAKOTA	5,460	1,726	866	45	2.61	127	499	10,765	5	1.00		
OHIO	4,809	8,348	4,756	240	2.87	1,545	6,801	12,060	151	2.22		
OREGON	4,589	4,474	2,671	201	4.49	1,305	2,326	16,133	40	1.72		
PENNSYLVANIA	8,026	14,589	4,980	515	3.53	1,905	16,236	23,350	235	1.45		
SOUTH CAROLINA	4,945	6,276	3,477	234	3.73	645	3,088	13,117	69	2.23		
SOUTH DAKOTA	5,697	2,339	1,077	84	3.75	115	459	10,935	4	0.87		
TENNESSEE	5,195	6,829	3,601	304	4.45	800	4,424	15,251	108	2.44		
TEXAS	15,061	20,280	3,689	801	3.95	1,826	13,624	22,396	304	2.23		
UTAH	2,465	1,478	1,643	57	3.86	106	469	12,122	8	1.71		
VERMONT	1,043	1,100	2,889	40	3.64	71	221	8,528	1	0.45		
VIRGINIA	4,949	8,650	4,789	259	2.99	450	2,985	18,174	56	1.88		
WASHINGTON	4,463	5,618	3,449	134	2.39	610	4,367	19,614	82	1.88		
WEST VIRGINIA	2,263	2,733	3,309	156	5.71	181	817	12,367	20	2.45		
WISCONSIN	7,990	9,294	3,187	287	3.09	930	4,590	13,522	67	1.45		
WYOMING	2,861	1,340	1,283	61	4.55	122	4,358	8,040	8	2.23		
SUBTOTAL	196,687	225,848	3,146	8,504	3.77	23,932	171,726	19,659	3,178	1.85		
INCOMPLETE DATA												
ARKANSAS												
FLORIDA												
ILLINOIS												
MAINE												
MARYLAND												
MASSACHUSETTS												
NEW HAMPSHIRE												
OKLAHOMA												
RHODE ISLAND												

$\lambda$  FATALITIES PER 100 MILLION VEHICLE MILES.

**TABLE 5-C. FATALITIES BY STATE AND HIGHWAY SYSTEM - 1983**  
**FEDERAL-AID URBAN HIGHWAYS**

STATE	ARTERIAL				STATE	COLLECTOR					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES		
				NUMBER					RATE $\lambda$	NUMBER	RATE $\lambda$
COMPLETE DATA					COMPLETE DATA						
ALABAMA	1,372	3,961	7,910	72	1.82	895	928	2,841	47	5.06	
ALASKA	17,878	509	17,878	18	3.54	121	121	2,332	2	1.94	
ARIZONA	4,313	4,313	10,374	153	3.55	549	908	4,531	10	1.10	
CALIFORNIA	11,469	57,452	13,724	1,641	2.86	4,293	5,222	3,333	90	1.72	
COLORADO	1,874	4,761	6,950	97	2.04	1,227	823	1,938	16	1.94	
CONNECTICUT	1,225	3,816	8,535	96	2.52	1,705	1,688	2,712	32	1.90	
DELAWARE	157	658	11,482	10	1.52	148	266	4,324	2	0.75	
DIST. OF COL.	102	502	13,484	12	2.39	145	300	5,668	6	2.00	
GEORGIA	1,775	4,848	7,483	97	2.00	1,562	3,203	5,618	64	2.00	
HAWAII	120	938	21,416	21	2.24	56	222	10,861	4	1.80	
IDAHO	333	1,056	8,688	32	3.03	237	381	4,404	0	0.00	
INDIANA	2,985	6,388	5,863	173	2.71	1,831	1,729	2,587	39	2.25	
IOWA	1,372	1,773	3,540	32	1.86	923	641	1,903	5	0.78	
KANSAS	1,060	2,521	6,516	28	1.03	478	281	1,611	5	1.78	
KENTUCKY	1,089	3,351	8,431	65	1.94	764	1,092	3,916	21	1.92	
LOUISIANA	1,105	2,985	7,401	37	1.24	748	775	2,839	76	9.81	
MICHIGAN	2,907	12,550	11,828	340	2.71	1,921	5,294	7,550	22	0.42	
MINNESOTA	1,417	5,038	9,741	68	1.35	525	535	2,792	8	1.50	
MISSISSIPPI	931	1,711	5,035	24	1.40	748	647	2,370	12	1.85	
MISSOURI	1,793	6,264	9,571	121	1.93	519	573	3,025	13	2.27	
MONTANA	235	521	6,074	19	3.65	91	53	1,596	2	3.77	
NEBRASKA	642	1,461	6,235	17	1.16	399	387	2,657	3	0.78	
NEVADA	438	1,936	12,110	17	1.67	66	124	5,147	3	0.78	
NEW JERSEY	3,539	12,301	9,523	318	3.67	1,812	3,031	4,583	51	1.68	
NEW MEXICO	503	1,628	8,867	67	4.12	183	272	4,072	6	2.21	
NEW YORK	5,077	18,284	9,867	552	3.02	3,399	3,990	3,216	109	2.73	
NORTH CAROLINA	2,036	7,164	9,640	73	1.02	248	134	1,480	6	4.48	
NORTH DAKOTA	195	9,234	3,288	5	2.14	181	169	2,558	3	1.78	
OHIO	3,438	9,540	7,602	234	2.45	3,932	3,182	2,540	117	3.68	
OREGON	1,051	2,781	7,249	63	2.27	918	914	2,728	15	1.64	
PENNSYLVANIA	3,661	7,879	5,896	212	2.69	3,102	3,982	3,517	39	0.98	
SOUTH CAROLINA	657	2,189	9,128	49	2.24	509	659	3,547	12	1.82	
SOUTH DAKOTA	255	327	3,513	4	1.22	101	75	2,034	0	0.00	
TENNESSEE	1,272	4,445	9,574	100	2.25	1,999	1,282	3,196	39	3.04	
TEXAS	5,532	20,031	9,920	445	2.22	1,433	1,454	2,780	3	0.21	
UTAH	522	2,398	12,586	63	2.63	318	713	6,143	16	2.24	
VERMONT	136	394	7,131	4	1.13	130	116	2,445	0	0.00	
VIRGINIA	1,895	8,172	11,815	143	1.75	1,012	1,327	3,593	25	1.88	
WASHINGTON	2,309	7,686	9,120	122	1.59	1,663	1,805	2,974	156	8.64	
WEST VIRGINIA	384	1,051	7,499	22	2.09	397	440	3,036	6	1.36	
WISCONSIN	1,973	4,614	6,407	52	1.13	816	630	2,115	6	0.95	
WYOMING	218	4,398	5,002	7	1.76	222	190	2,345	1	0.53	
SUBTOTAL	70,271	240,789	9,388	5,778	2.40	41,386	50,540	3,346	1,092	2.16	
INCOMPLETE DATA											
ARKANSAS											
FLORIDA											
ILLINOIS											
MAINE											
MARYLAND											
MASSACHUSETTS											
NEW HAMPSHIRE											
OKLAHOMA											
RHODE ISLAND											

$\lambda$  FATALITIES PER 100 MILLION VEHICLE MILES.



**TABLE 5-D. FATALITIES  
BY STATE AND HIGHWAY SYSTEM - 1983  
FEDERAL-AID SECONDARY HIGHWAYS**

STATE	COLLECTOR, RURAL				
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES	
				NUMBER	RATE <sup>1/</sup>
COMPLETE DATA					
ALABAMA	11,250	3,589	874	134	3.73
ALASKA	1,826	483	725	36	7.45
ARIZONA	3,167	1,555	1,345	74	4.76
CALIFORNIA	11,104	6,769	1,670	449	6.63
COLORADO	3,614	1,146	869	65	5.67
CONNECTICUT	895	1,008	3,086	35	3.47
DELAWARE	605	465	2,106	17	3.66
DIST. OF COL.	-	-	-	-	-
GEORGIA	14,014	4,822	943	200	4.15
HAWAII	430	317	2,020	11	3.47
IDAHO	4,058	1,522	1,028	53	3.48
INDIANA	9,211	5,426	1,614	168	3.10
IOWA	13,329	2,315	476	94	4.06
KANSAS	22,547	2,100	255	61	2.90
KENTUCKY	7,222	3,806	1,444	224	5.89
LOUISIANA	7,412	5,154	1,905	173	3.36
MICHIGAN	19,019	8,463	1,219	257	3.04
MINNESOTA	16,495	3,271	543	111	3.39
MISSISSIPPI	11,731	3,000	701	119	3.97
MISSOURI	18,071	4,228	641	191	4.52
MONTANA	4,705	1,504	293	33	6.55
NEBRASKA	11,412	1,087	261	32	2.94
NEVADA	2,331	686	806	32	4.66
NEW JERSEY	1,718	2,492	3,974	87	3.49
NEW MEXICO	3,973	1,124	775	82	7.30
NEW YORK	6,366	4,318	1,858	163	3.77
NORTH CAROLINA	10,407	8,697	2,290	301	3.46
NORTH DAKOTA	10,430	669	176	30	4.48
OHIO	11,782	7,241	1,684	232	3.20
OREGON	7,746	1,705	603	83	4.87
PENNSYLVANIA	8,196	5,340	1,765	207	3.88
SOUTH CAROLINA	8,505	3,806	1,226	206	5.41
SOUTH DAKOTA	11,223	882	215	29	3.29
TENNESSEE	5,282	1,770	918	117	6.61
TEXAS	32,722	12,689	1,052	553	5.15
UTAH	2,571	675	1,719	31	4.59
VERMONT	1,953	833	1,169	21	2.52
VIRGINIA	10,328	4,909	1,302	172	3.50
WASHINGTON	7,196	5,213	1,985	22	0.42
WEST VIRGINIA	6,330	3,064	1,326	142	4.63
WISCONSIN	11,773	3,788	882	104	2.75
WYOMING	2,279	383	460	24	6.27
SUBTOTAL	355,228	131,315	1,013	5,275	4.02
INCOMPLETE DATA					
ARKANSAS					
FLORIDA					
ILLINOIS					
MAINE					
MARYLAND					
MASSACHUSETTS					
NEW HAMPSHIRE					
OKLAHOMA					
RHODE ISLAND					
<sup>1/</sup> FATALITIES PER 100 MILLION VEHICLE MILES.					

**TABLE 5-E. FATALITIES BY STATE AND HIGHWAY SYSTEM - 1983**

**NONFEDERAL-AID ARTERIAL HIGHWAYS**

STATE	RURAL					STATE	URBAN								
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES			HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES					
				NUMBER	RATE 1/					NUMBER	RATE 1/				
COMPLETE DATA															
ALABAMA	-	-	-	-	-	270	723	7,336	-	7	0.97				
ALASKA	-	-	-	-	-	-	-	-	-	-	-				
ARIZONA	15	17	3,105	2	11.76	41	85	5,680	1	1.18					
CALIFORNIA	31	30	2,651	2	6.67	1,282	4,038	8,629	112	2.77					
COLORADO	-	-	-	-	-	18	83	12,633	0	0.00					
CONNECTICUT	9	18	5,479	1	5.56	47	179	10,434	2	1.12					
DELAWARE	-	-	-	-	-	-	-	-	-	-					
DIST. OF COL.	-	-	-	-	-	12	115	26,256	1	0.87					
GEORGIA	-	-	-	-	-	-	-	-	-	-					
HAWAII	11	43	10,710	1	2.33	13	58	12,223	0	0.00					
IDAHO	-	-	-	-	-	8	16	5,479	1	6.23					
ILLINOIS	35	74	5,793	9	12.16	12	188	42,922	1	0.53					
IOWA	-	-	-	-	-	222	652	8,046	18	2.76					
KANSAS	48	62	3,539	1	1.61	-	-	-	-	-					
KENTUCKY	-	-	-	-	-	-	-	-	-	-					
LOUISIANA	-	-	-	-	-	440	805	5,012	7	0.87					
MASSACHUSETTS	-	-	-	-	-	164	325	5,429	3	0.92					
MICHIGAN	-	-	-	-	-	48	41	2,340	3	7.32					
MINNESOTA	-	-	-	-	-	-	-	-	-	-					
MISSISSIPPI	242	26	294	2	7.69	534	1,345	6,901	17	1.26					
MISSOURI	9	7	2,131	0	0.00	37	64	4,739	0	0.00					
MONTANA	80	18	616	0	0.00	-	-	-	-	-					
NEBRASKA	-	-	-	-	-	19	88	12,689	1	1.14					
NEVADA	1	4	10,959	0	0.00	260	3,085	32,518	31	1.00					
NEW JERSEY	119	1,007	23,184	20	1.99	123	412	9,177	2	2.50					
NEW MEXICO	-	-	-	-	-	1,262	2,092	4,542	20	0.86					
NEW YORK	-	-	-	-	-	3	7	6,393	0	0.00					
NORTH CAROLINA	249	112	1,232	0	0.00	-	-	-	-	-					
NORTH DAKOTA	-	-	-	-	-	63	290	12,611	2	0.59					
OHIO	-	-	-	-	-	-	-	-	-	-					
PENNSYLVANIA	271	130	1,314	5	3.85	-	-	-	-	-					
RHODE ISLAND	-	-	-	-	-	290	442	4,176	12	2.71					
SOUTH CAROLINA	-	-	-	-	-	10	34	9,315	0	0.00					
SOUTH DAKOTA	14	9	1,761	0	0.00	1,848	5,639	8,360	303	5.37					
TENNESSEE	2	7	9,589	0	0.00	47	31	1,807	1	3.23					
TEXAS	-	-	-	-	-	-	-	-	-	-					
UTAH	-	-	-	-	-	55	285	14,197	8	2.81					
VERMONT	-	-	-	-	-	11	1	249	0	0.00					
VIRGINIA	309	231	2,048	0	0.00	145	305	43,836	0	0.00					
WASHINGTON	-	-	-	-	-	10	12	5,763	1	0.23					
WEST VIRGINIA	-	-	-	-	-	-	-	-	-	-					
WISCONSIN	-	-	-	-	-	-	-	-	-	-					
WYOMING	252	96	1,044	1	1.04	7,348	21,537	8,030	557	2.59					
SUBTOTAL	1,697	1,891	3,053	44	2.33										
INCOMPLETE DATA															
ARKANSAS	-	-	-	-	-	-	-	-	-	-					
FLORIDA	-	-	-	-	-	-	-	-	-	-					
ILLINOIS	-	-	-	-	-	-	-	-	-	-					
MAINE	-	-	-	-	-	-	-	-	-	-					
MARYLAND	-	-	-	-	-	-	-	-	-	-					
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-					
NEW HAMPSHIRE	-	-	-	-	-	-	-	-	-	-					
OKLAHOMA	-	-	-	-	-	-	-	-	-	-					

1/ FATALITIES PER 100 MILLION VEHICLE MILES.

**TABLE 5-F. FATALITIES BY STATE AND HIGHWAY SYSTEM - 1983**  
**NONFEDERAL-AID COLLECTOR HIGHWAYS**

STATE	RURAL				STATE	URBAN							
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES				
				NUMBER					RATE $\lambda$	NUMBER	RATE $\lambda$		
COMPLETE DATA													
ALABAMA	7,167	995	380	57	5.73	661	671	2,781	20	2.98			
ALASKA	898	143	436	5	3.50	39	87	6,112	0	0.00			
ARIZONA	4,850	693	391	34	4.91	438	557	3,475	10	1.80			
CALIFORNIA	12,078	3,588	814	204	5.69	2,510	3,066	3,347	61	1.99			
COLORADO	17,365	1,376	217	79	5.74	35	43	3,366	2	4.65			
CONNECTICUT	1,207	451	1,024	17	3.77	127	188	2,615	4	2.13			
DELAWARE	199	50	862	0	0.00	4	29	2,943	1	3.45			
DIST. OF COL.													
GEORGIA	7,337	2,341	874	150	6.41			6,164	1	11.11			
HAWAII	196	145	2,027	6	4.14	88	213	6,631	2	0.94			
IDAHO	4,867	450	253	7	1.55	71	113	4,360	1	0.88			
INDIANA	10,695	1,482	380	31	2.09	45	53	3,227	1	1.89			
IOWA	16,478	695	116	35	5.01	295	41	1,158	0	0.00			
KANSAS	9,407	262	76	9	3.44	295	329	3,055	0	0.00			
KENTUCKY	5,341	1,692	496	87	5.14	295	108	3,259	6	5.56			
LOUISIANA	4,269	1,180	757	42	3.56	365	159	1,190	3	1.89			
MICHIGAN	7,829	1,610	563	58	3.60	2,002	654	895	5	0.76			
MINNESOTA	12,158	989	223	35	3.54	1,224	1,447	3,239	19	1.31			
MISSISSIPPI	2,878	249	237	1	0.40								
MISSOURI	5,492	305	152	10	3.28	873	935	2,934	12	1.28			
MONTANA	11,306	368	89	13	5.16	117	76	1,780	2	2.63			
NEBRASKA	9,315	283	77	10	3.80								
NEVADA	2,483	150	166	6	4.00	340	276	2,224	9	3.26			
NEW JERSEY	1,290	1,106	2,349	26	2.35			904	6	19.35			
NEW MEXICO	3,176	253	218	25	9.88	202	31	1,221	2	2.22			
NEW YORK	11,039	3,843	954	124	3.23	378	166	1,203	3	1.81			
NORTH CAROLINA	9,417	2,614	761	129	4.93	1,054	703	1,810	8	1.14			
NORTH DAKOTA	8,136	215	72	10	4.65	23	19	2,263	0	0.00			
OHIO	7,525	2,15	998	55	2.37								
OREGON	9,079	1,054	218	21	1.95	174	161	2,535	2	1.24			
PENNSYLVANIA	9,043	2,393	725	21	2.84								
SOUTH CAROLINA	4,018	476	325	68	8.19	611	355	1,592	7	1.97			
SOUTH DAKOTA	7,347	171	64	5	2.92	47	41	2,390	0	0.00			
TENNESSEE	11,281	2,722	661	65	2.39								
TEXAS	20,598	2,321	307	106	4.57	3,740	4,126	3,030	88	2.13			
UTAH	4,920	187	104	12	6.42	261	213	2,235	5	2.35			
VERMONT	1,024	153	409	5	3.27								
VIRGINIA	2,353	351	409	25	7.41								
WASHINGTON	6,469	1,811	767	7	0.39	30	13	1,187	0	0.00			
WEST VIRGINIA	2,152	318	397	4	1.26	28	18	1,761	2	11.11			
WISCONSIN	6,696	935	383	47	5.03	531	403	12,329	0	0.00			
WYOMING	7,602	382	138	10	2.62	38	31	2,079	0	0.00			
SUBTOTAL	291,087	43,528	410	1,696	3.90	16,784	15,443	2,521	282	1.83			
INCOMPLETE DATA													
ARKANSAS													
FLORIDA													
ILLINOIS													
MAINE													
MARYLAND													
MASSACHUSETTS													
NEW HAMPSHIRE													
OKLAHOMA													
RHODE ISLAND													

$\lambda$  FATALITIES PER 100 MILLION VEHICLE MILES.

**TABLE 5-G. FATALITIES BY STATE AND HIGHWAY SYSTEM - 1983**  
**NONFEDERAL-AID LOCAL HIGHWAYS**

STATE	RURAL				STATE	URBAN						
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES			
				NUMBER					RATE $\lambda$	NUMBER	RATE $\lambda$	
COMPLETE DATA					COMPLETE DATA							
ALABAMA	48,648	2,805	158	60	2,14	9,857	2,828	786	90	3.18		
ALASKA	2,626	19	354	19	5.37	1,048	250	654	2	0.90		
ARIZONA	55,055	1,613	80	55	3.41	6,437	1,306	556	41	3.14		
CALIFORNIA	78,928	4,197	151	193	4.74	41,879	12,728	833	235	1.85		
COLORADO	38,337	1,423	102	35	2.46	7,047	2,666	1,036	21	0.79		
CONNECTICUT	5,968	384	771	36	4.67	6,679	1,533	629	22	1.44		
DELAWARE	2,678	377	386	13	3.45	1,037	269	999	13	0.79		
DIST. OF COL.						669	1,102	1,102	10	3.72		
GEORGIA	55,638	1,888	93	131	1.88	13,370	3,073	630	64	2.08		
HAWAII	1,932	264	374	5	6.94	933	703	2,064	12	1.71		
IDAHO	54,026	1,932	40	43	1.89	11,781	587	1,079	9	1.53		
INDIANA	49,037	1,760	98	94	5.52	11,781	3,258	758	78	2.39		
IOWA	65,279	1,456	61	53	3.64	5,210	1,065	560	8	0.76		
KANSAS	83,527	1,229	40	67	5.45	9,773	1,481	703	22	1.49		
KENTUCKY	41,275	1,794	119	72	4.01	4,854	1,225	792	24	1.71		
LOUISIANA	30,932	1,632	145	92	9.65	8,892	1,940	377	40	3.27		
MICHIGAN	60,033	1,213	55	117	9.65	16,538	2,118	321	96	4.95		
MINNESOTA	80,368	2,332	79	54	2.32	9,082	2,118	639	15	0.71		
MISSISSIPPI	43,456	1,064	67	178	16.73	4,757	1,415	815	48	3.39		
MISSOURI	73,415	2,607	57	82	3.15	9,981	1,911	250	39	4.28		
MONTANA	46,691	847	28	34	5.26	1,577	820	1,340	2	0.24		
NEBRASKA	59,313	1,095	51	32	3.84	2,180	502	432	9	1.79		
NEVADA	33,697	264	21	15	5.68	2,045	403	540	7	1.74		
NEW JERSEY	7,451	785	289	40	9.10	15,748	9,541	1,660	72	0.75		
NEW MEXICO	38,236	726	52	43	5.92	3,236	1,056	894	26	2.46		
NEW YORK	48,669	3,521	198	125	3.55	25,026	6,354	696	173	2.72		
NORTH CAROLINA	50,694	2,893	114	190	6.57	11,906	2,952	679	85	2.68		
NORTH DAKOTA	59,747	714	33	9	1.26	11,938	251	733	3	1.20		
OHIO	57,631	6,552	310	126	1.92	19,884	9,758	1,345	274	3.04		
OREGON	102,827	1,402	37	42	3.00	5,638	889	432	27	3.04		
PENNSYLVANIA	61,055	5,137	231	118	2.30	19,083	5,138	738	197	3.93		
SOUTH CAROLINA	36,148	2,613	198	124	4.75	6,180	933	414	30	3.92		
SOUTH DAKOTA	46,879	824	31	28	5.34	1,010	223	605	1	0.45		
TENNESSEE	49,267	1,564	87	114	7.29	8,562	3,912	1,252	77	1.97		
TEXAS	142,158	4,691	90	320	6.82	47,848	18,393	1,053	214	1.16		
UTAH	30,361	4,509	46	19	3.73	3,701	1,292	956	17	1.32		
VERMONT	8,770	372	116	15	4.03	547	195	977	3	1.54		
VIRGINIA	33,769	2,893	235	80	2.77	8,927	3,765	1,155	47	7.08		
WASHINGTON	52,367	944	28	55	10.11	9,800	678	1,188	48	6.94		
WEST VIRGINIA	20,546	920	123	44	4.78	1,698	216	312	15	1.50		
WISCONSIN	67,486	1,648	67	108	6.55	9,308	3,005	884	27	0.60		
WYOMING	22,756	239	29	17	7.11	893	125	384	2	1.50		
SUBTOTAL	1,944,886	69,811	98	3,113	4.46	374,450	111,538	816	2,235	2.00		
INCOMPLETE DATA												
ARKANSAS												
FLORIDA												
ILLINOIS												
MAINE												
MARYLAND												
MASSACHUSETTS												
NEW HAMPSHIRE												
OKLAHOMA												
RHODE ISLAND												
$\lambda$ FATALITIES PER 100 MILLION VEHICLE MILES.												

**TABLE 6-A. NONFATALLY INJURED PERSONS BY STATE AND HIGHWAY SYSTEM - 1983**  
**FEDERAL-AID INTERSTATE HIGHWAYS**

STATE	RURAL				STATE	URBAN						
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS			
				NUMBER					RATE $\lambda$	NUMBER	RATE $\lambda$	
COMPLETE DATA					COMPLETE DATA							
ALABAMA	639	2,850	12,219	653	22.91	191	2,112	30,295	689	32.52		
ALASKA	1,072	1,955	111.63	854	111.63	20	29,452	188.84	406	188.84		
ARIZONA	1,021	3,078	8,259	1,696	55.10	123	26,261	139.70	1,541	139.70		
CALIFORNIA	1,443	9,458	17,957	4,212	44.53	938	34,545	100,900	17,278	100,900		
COLORADO	788	2,639	9,175	1,861	70.52	158	40,454	50.02	2,333	122.76		
CONNECTICUT	108	2,992	25,165	395	39.82	229	4,846	57,977	3,551	73.28		
DELAWARE	-	-	-	-	-	41	729	48,714	270	37.04		
DIST. OF COL.	-	-	-	-	-	12	351	82,420	514	142.38		
GEORGIA	886	6,278	19,413	1,290	20.55	296	6,424	59,459	4,154	64.56		
HAWAII	5	50	27,337	71	142.00	31	808	71,410	1,037	128.34		
IDAHO	536	1,148	5,868	598	52.09	71	1,410	13,930	1,219	90.66		
INDIANA	854	4,189	13,439	1,671	39.85	259	3,442	35,410	910	26.44		
IOWA	614	2,272	10,138	676	29.75	123	849	18,911	739	87.04		
KANSAS	554	1,732	7,256	738	42.61	154	1,321	23,501	1,209	91.52		
KENTUCKY	579	3,766	17,820	1,168	31.01	159	2,544	43,836	1,224	48.11		
LOUISIANA	519	3,428	18,096	1,473	42.97	167	3,853	38,553	2,559	108.89		
MICHIGAN	714	2,336	14,336	2,805	75.08	415	6,930	45,750	4,491	64.81		
MINNESOTA	596	2,300	9,054	384	16.70	177	3,167	45,021	2,263	71.45		
MISSISSIPPI	567	1,985	9,591	472	23.78	119	945	21,757	271	28.68		
MISSOURI	824	3,692	12,276	1,194	32.34	308	5,524	49,137	3,370	61.01		
MONTANA	1,089	1,355	3,411	1,757	56.56	46	131	7,802	56	42.75		
NEBRASKA	444	1,436	8,861	517	38.09	38	482	34,751	456	94.61		
NEVADA	502	1,086	5,927	819	78.41	36	446	33,942	566	126.91		
NEW JERSEY	126	1,453	31,100	302	20.78	253	6,051	65,526	3,612	59.69		
NEW MEXICO	93	2,343	7,031	1,484	63.34	87	569	21,068	647	96.71		
NEW YORK	881	4,342	13,503	2,396	55.18	607	10,504	47,410	9,300	88.54		
NORTH CAROLINA	578	3,771	17,875	1,130	29.97	186	2,007	29,563	852	42.45		
NORTH DAKOTA	533	731	3,751	157	21.48	38	1,129	9,301	73	56.59		
OHIO	533	7,106	22,123	2,046	28.79	655	11,244	49,134	8,310	69.57		
OREGON	595	2,565	12,017	816	31.80	133	1,864	38,337	1,267	67.97		
PENNSYLVANIA	1,585	6,589	15,221	2,832	42.98	338	5,019	40,582	3,515	70.03		
SOUTH CAROLINA	647	2,951	12,456	504	17.98	109	1,189	29,886	338	28.43		
SOUTH DAKOTA	636	1,186	5,109	337	33.47	41	147	9,823	69	46.94		
TENNESSEE	826	5,974	19,815	1,341	22.45	205	3,339	44,624	2,299	68.85		
TEXAS	2,273	10,125	12,204	4,337	42.83	843	18,493	60,102	20,555	111.15		
UTAH	681	1,490	5,994	1,000	67.11	125	1,766	38,707	1,280	72.48		
VERMONT	302	713	6,468	297	41.65	18	94	14,307	55	55.57		
VIRGINIA	799	4,558	15,529	1,542	36.02	226	4,160	50,430	2,332	56.06		
WASHINGTON	483	2,912	16,518	1,073	36.95	232	5,491	64,844	3,673	66.89		
WEST VIRGINIA	389	1,400	9,860	528	37.71	90	712	21,674	480	67.42		
WISCONSIN	486	2,520	17,167	876	30.00	111	1,974	48,723	1,442	73.05		
WYOMING	868	1,371	4,327	1,083	78.99	49	134	7,452	68	50.75		
SUBTOTAL	28,608	122,737	11,754	48,585	39.58	8,468	157,730	51,032	110,805	70.25		
INCOMPLETE DATA												
ARKANSAS												
FLORIDA												
ILLINOIS												
MAINE												
MARYLAND												
MASSACHUSETTS												
NEW HAMPSHIRE												
OKLAHOMA												
RHODE ISLAND												
$\lambda$ NONFATALLY INJURED PERSONS PER 100 MILLION VEHICLE MILES.												

**TABLE 6-B. NONFATALLY INJURED PERSONS BY STATE AND HIGHWAY SYSTEM - 1983**  
**OTHER FEDERAL-AID PRIMARY HIGHWAYS**

STATE	RURAL				STATE	URBAN					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS		
				NUMBER					RATE 1/	NUMBER	RATE 1/
COMPLETE DATA					COMPLETE DATA						
ALABAMA	5,903	6,176	2,866	5,245	84.93	745	3,394	12,481	2,911	85.77	
ALASKA	1,013	3,372	1,006	492	132.26	31	77	6,805	291	377.92	
ARIZONA	3,316	18,352	2,612	2,479	78.40	172	1,145	18,238	5,030	439.30	
CALIFORNIA	9,746	40,352	5,159	17,440	95.03	1,332	23,207	47,733	21,152	91.14	
COLORADO	4,399	4,055	2,528	4,259	104.93	561	2,757	13,464	6,513	236.23	
CONNECTICUT	689	1,683	6,692	2,446	145.34	576	3,457	16,443	8,568	247.84	
DELAWARE	332	1,261	10,406	596	78.98	56	673	19,207	1,538	231.90	
DIST. OF COL.						158	1,543	26,756	4,862	315.10	
GEORGIA	8,665	9,040	2,858	8,301	91.83	1,412	6,920	13,427	15,168	219.19	
HAWAII	371	881	6,506	1,441	163.56	111	1,231	30,384	2,588	210.24	
IDAHO	2,707	1,678	1,698	1,999	119.13	42	196	12,785	461	235.20	
INDIANA	4,209	7,293	4,747	10,540	88.74	782	4,555	10,527	8,598	188.76	
IOWA	8,177	5,889	1,973	5,226	144.52	686	2,661	10,527	7,785	292.56	
KANSAS	7,762	4,822	1,702	3,893	80.73	328	1,361	11,032	3,475	255.33	
KENTUCKY	3,279	4,578	3,825	5,872	128.27	357	2,585	15,337	4,308	166.58	
LOUISIANA	2,664	5,104	5,249	5,912	115.83	496	2,776	15,334	11,503	428.78	
MICHIGAN	4,679	8,357	4,893	17,902	214.22	1,246	9,783	14,433	4,688	185.00	
MINNESOTA	8,804	7,291	2,269	5,266	72.23	481	1,663	12,981	1,319	79.31	
MISSISSIPPI	5,295	5,097	2,637	3,864	92.43	351	3,294	16,869	5,005	151.94	
MISSOURI	5,359	2,222	1,134	2,726	178.89	109	401	10,079	836	208.48	
MONTANA	5,370	3,578	1,412	2,812	126.58	277	1,243	12,294	3,329	267.82	
NEBRASKA	6,941	3,578	1,412	2,812	101.86	59	1,448	20,803	3,329	82.37	
NEVADA	1,789	961	1,472	4,947	166.57	635	8,363	35,323	17,707	211.72	
NEW JERSEY	814	2,970	9,996	4,947	166.57	635	8,363	35,323	17,707	211.72	
NEW MEXICO	3,378	2,641	2,142	2,412	91.33	187	796	11,662	3,095	388.82	
NEW YORK	6,479	9,116	3,855	2,412	380.33	1,793	18,933	28,930	39,942	189.84	
NORTH CAROLINA	3,731	7,433	5,458	34,671	93.68	626	4,466	19,546	5,439	121.79	
NORTH DAKOTA	5,460	1,726	865	1,040	60.25	127	499	10,065	1,003	201.00	
OHIO	4,809	8,348	4,756	11,218	134.38	1,545	6,801	12,060	24,279	356.99	
OREGON	4,589	4,474	2,671	5,595	127.29	395	2,326	16,133	5,521	237.36	
PENNSYLVANIA	8,026	14,589	4,990	13,026	130.41	1,928	15,236	23,350	21,910	134.95	
SOUTH CAROLINA	4,945	6,276	3,477	4,391	69.96	643	3,088	13,117	5,962	190.76	
SOUTH DAKOTA	5,697	2,239	1,077	1,549	107.53	800	4,424	15,151	1,148	249.46	
TENNESSEE	5,195	6,829	3,601	7,343	107.53	800	4,424	15,151	1,148	249.46	
TEXAS	15,061	20,280	3,689	14,950	73.72	1,626	13,624	22,956	23,832	174.93	
UTAH	2,465	1,478	1,643	1,531	103.59	106	469	12,122	1,066	159.49	
VERMONT	1,042	1,100	2,889	1,482	134.73	71	221	8,528	748	178.10	
VIRGINIA	4,943	8,650	4,789	9,074	104.90	450	2,985	18,174	482	218.10	
WASHINGTON	4,463	5,618	3,449	179.35	179.35	510	4,267	19,614	5,954	159.24	
WEST VIRGINIA	2,263	2,733	3,309	10,076	207.61	181	817	12,867	2,045	250.31	
WISCONSIN	7,990	9,294	3,187	8,708	90.52	930	4,590	13,522	8,771	191.93	
WYOMING	2,861	1,340	1,283	1,213	90.52	122	358	8,040	644	179.89	
SUBTOTAL	195,687	225,848	3,146	268,390	118.84	23,932	171,726	19,659	305,099	177.67	
INCOMPLETE DATA											
ARKANSAS											
FLORIDA											
ILLINOIS											
MAINE											
MARYLAND											
MASSACHUSETTS											
NEW HAMPSHIRE											
OKLAHOMA											
RHODE ISLAND											

1/ NONFATALLY INJURED PERSONS PER 100 MILLION VEHICLE MILES.

**TABLE 6-C. NONFATALLY INJURED PERSONS BY STATE AND HIGHWAY SYSTEM - 1983**

**FEDERAL-AID URBAN HIGHWAYS**

STATE	ARTERIAL				COLLECTOR				
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	NONFATALLY INJURED PERSONS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS	
			NUMBER	RATE $\lambda$				NUMBER	RATE $\lambda$
COMPLETE DATA									
ALABAMA	1,372	3,961	7,910	3,953	895	928	2,841	3,212	346.12
ALASKA	178	509	17,878	1,823	121	103	2,332	186	180.58
ARIZONA	1,139	4,313	10,374	22,083	549	908	4,531	2,073	228.30
CALIFORNIA	11,469	57,452	13,724	130,241	4,293	5,222	3,333	7,184	137.57
COLORADO	1,874	4,761	6,960	13,613	1,227	823	1,838	2,277	276.67
CONNECTICUT	1,225	3,816	8,535	13,875	1,705	1,688	2,712	5,953	352.67
DELAWARE	157	658	11,482	1,449	148	265	4,924	4,999	187.59
DIST. OF COL.	102	502	13,484	1,805	145	300	5,668	2,955	685.00
GEORGIA	1,775	4,848	7,483	10,350	1,562	3,203	5,618	6,777	211.58
HAWAII	120	938	21,416	2,857	56	222	10,861	686	309.01
IDAHO	333	1,056	8,688	2,795	237	381	4,404	469	123.10
INDIANA	2,985	6,388	5,863	15,199	1,831	1,729	2,587	3,528	204.05
IOWA	1,372	1,773	3,540	4,671	923	641	1,903	666	103.90
KANSAS	1,060	2,521	6,516	6,649	478	281	1,611	556	197.86
KENTUCKY	1,089	3,351	8,431	8,672	764	1,092	3,916	2,230	204.21
LOUISIANA	1,105	2,985	7,401	10,124	748	1,075	2,839	2,154	19.87
MICHIGAN	2,907	12,550	11,828	14,345	1,921	5,294	7,550	1,812	34.23
MINNESOTA	1,417	9,038	9,741	11,088	525	535	2,792	1,169	218.50
MISSISSIPPI	1,931	1,711	5,035	12,184	748	647	2,370	594	91.81
MISSOURI	1,793	6,264	9,571	16,831	519	573	3,025	1,815	316.75
MONTANA	235	521	6,074	256.81	91	53	1,596	1,264	564.15
NEBRASKA	642	1,461	6,235	6,104	399	387	2,657	1,188	326.61
NEVADA	438	1,936	12,110	6,007	66	124	5,147	1,264	151.61
NEW JERSEY	3,539	12,301	9,523	54,574	1,812	3,021	4,583	11,141	367.57
NEW MEXICO	503	1,628	8,867	7,106	183	272	4,072	646	237.50
NEW YORK	5,077	18,284	9,867	56,548	3,399	3,990	3,216	6,474	162.26
NORTH DAKOTA	195	923	3,288	344.02	181	169	2,558	338	200.00
OHIO	3,438	9,540	7,602	41,585	3892	3,182	2,240	19,454	611.38
OREGON	1,051	2,781	7,249	11,491	918	914	2,728	2,813	307.77
PENNSYLVANIA	3,661	7,879	5,895	294.34	509	3,962	3,517	3,895	97.82
SOUTH CAROLINA	657	2,189	9,128	2,670	101	659	3,547	385	58.57
SOUTH DAKOTA	255	327	3,513	670	109	75	2,034	115	152.33
TENNESSEE	1,272	4,445	9,574	12,398	1,099	1,282	3,196	3,148	245.55
TEXAS	5,532	20,031	9,920	29,448	1,433	1,454	3,196	3,148	245.55
UTAH	522	2,398	12,586	7,129	318	713	6,143	1,801	10.52
VERMONT	136	354	7,131	603	130	116	2,445	153	252.59
VIRGINIA	1,895	8,172	11,815	20,023	1,012	1,327	3,593	241	207.76
WASHINGTON	2,309	7,686	9,120	12,706	1,805	1,805	2,974	3,478	262.09
WEST VIRGINIA	384	1,051	7,499	3,339	1,663	1,440	3,036	16,090	891.41
WISCONSIN	1,973	4,614	6,407	4,685	816	630	2,115	537	122.05
WYOMING	218	398	5,002	1,067.8	222	190	2,345	1,095	173.81
SUBTOTAL	68,235	233,626	9,380	596,998	41,138	50,406	3,357	117,740	233.58
INCOMPLETE DATA									
ARKANSAS									
FLORIDA									
ILLINOIS									
MAINE									
MARYLAND									
MASSACHUSETTS									
NEW HAMPSHIRE									
NORTH CAROLINA									
OKLAHOMA									
RHODE ISLAND									
$\lambda$ NONFATALLY INJURED PERSONS PER 100 MILLION VEHICLE MILES.									

**TABLE 6-D. NONFATALLY INJURED PERSONS  
BY STATE AND HIGHWAY SYSTEM - 1983**  
FEDERAL-AID SECONDARY HIGHWAYS

STATE	COLLECTOR, RURAL					RATE <sup>1/</sup>
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS		
				NUMBER	RATE <sup>1/</sup>	
COMPLETE DATA						
ALABAMA	11,250	3,589	874	2,813	78.38	
ALASKA	1,826	483	725	920	190.48	
ARIZONA	3,167	1,555	1,345	1,736	111.64	
CALIFORNIA	11,104	6,769	1,670	24,373	360.07	
COLORADO	3,614	1,146	869	1,643	143.37	
CONNECTICUT	895	1,008	3,086	1,749	173.51	
DELAWARE	605	465	2,106	559	120.22	
DIST. OF COL.	-	-	-	-	-	
GEORGIA	14,014	4,822	943	4,460	92.49	
HAWAII	430	317	2,020	525	165.62	
IDAHO	4,058	1,522	1,028	1,353	88.90	
INDIANA	9,211	5,426	1,614	8,160	150.39	
IOWA	13,329	2,315	476	2,641	114.08	
KANSAS	22,547	2,100	255	2,337	111.29	
KENTUCKY	7,222	3,806	1,444	7,234	190.07	
LOUISIANA	7,412	5,154	1,905	9,176	178.04	
MICHIGAN	19,019	8,463	1,219	750	8.86	
MINNESOTA	16,495	3,271	543	3,350	102.42	
MISSISSIPPI	11,731	3,000	701	1,692	56.40	
MISSOURI	18,071	4,228	641	5,576	131.88	
MONTANA	4,705	504	293	597	118.45	
NEBRASKA	11,412	1,087	261	1,365	125.57	
NEVADA	2,331	686	806	735	107.14	
NEW JERSEY	1,718	2,492	3,974	4,564	183.15	
NEW MEXICO	3,973	1,124	775	1,630	145.02	
NEW YORK	6,366	4,318	1,858	19,955	462.14	
NORTH CAROLINA	10,407	8,697	2,290	10,460	120.27	
NORTH DAKOTA	10,430	669	176	619	52.53	
OHIO	11,782	7,241	1,684	12,777	176.45	
OREGON	7,746	1,706	603	3,348	196.25	
PENNSYLVANIA	8,196	5,340	1,785	9,031	169.12	
SOUTH CAROLINA	8,505	3,806	1,226	3,230	84.87	
SOUTH DAKOTA	11,223	882	215	582	65.99	
TENNESSEE	5,282	1,770	918	5,172	292.20	
TEXAS	32,722	12,689	1,062	14,532	114.52	
UTAH	2,571	675	719	886	131.26	
VERMONT	1,953	833	1,169	1,403	168.43	
VIRGINIA	10,328	4,909	1,302	8,270	168.47	
WASHINGTON	7,196	5,213	1,985	1,613	30.94	
WEST VIRGINIA	6,330	3,064	1,326	6,514	212.60	
WISCONSIN	11,773	3,788	882	8,563	226.06	
WYOMING	2,279	383	460	417	108.88	
SUBTOTAL	355,228	131,315	1,013	197,310	150.26	
INCOMPLETE DATA						
ARKANSAS						
FLORIDA						
ILLINOIS						
MAINE						
MARYLAND						
MASSACHUSETTS						
NEW HAMPSHIRE						
OKLAHOMA						
RHODE ISLAND						
<sup>1/</sup> NONFATALLY INJURED PERSONS PER 100 MILLION VEHICLE MILES.						



**TABLE 6-E. NONFATALLY INJURED PERSONS BY STATE AND HIGHWAY SYSTEM - 1983**  
**NONFEDERAL-AID ARTERIAL HIGHWAYS**

STATE	RURAL				URBAN							
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS			
				NUMBER	RATE $\downarrow$				NUMBER	RATE $\downarrow$		
COMPLETE DATA												
ALABAMA	-	-	-	-	-	270	723	7,336	414	57.26		
ALASKA	-	-	-	-	-	-	-	-	-	-		
ARIZONA	15	17	3,105	18	105.88	41	85	5,680	100	117.65		
CALIFORNIA	31	30	2,651	167	556.67	1,282	4,038	8,629	10,022	248.19		
COLORADO	-	-	-	-	-	18	83	12,633	93	112.05		
CONNECTICUT	9	18	5,479	36	200.00	47	179	10,434	308	172.07		
DELAWARE	-	-	-	-	-	-	-	-	-	-		
DIST. OF COL.	-	-	-	-	-	12	115	26,256	296	257.39		
GEORGIA	-	-	-	-	-	-	-	-	-	-		
HAWAII	11	43	10,710	89	206.98	13	58	12,223	221	381.03		
IDAHO	-	-	-	-	-	8	16	5,479	85	531.25		
ILLINOIS	-	-	-	-	-	12	188	42,922	90	47.87		
INDIANA	35	74	5,793	438	591.89	-	-	-	-	-		
IOWA	48	62	3,539	34	54.84	222	652	8,046	2,469	378.68		
KANSAS	-	-	-	-	-	-	-	-	-	-		
KENTUCKY	-	-	-	-	-	440	805	5,012	438	54.41		
LOUISIANA	-	-	-	-	-	164	325	5,429	560	172.31		
MASSACHUSETTS	-	-	-	-	-	48	41	2,340	190	463.41		
MICHIGAN	-	-	-	-	-	-	-	-	-	-		
MINNESOTA	-	-	-	-	-	534	1,345	6,901	4,527	336.58		
MISSISSIPPI	-	-	-	-	-	37	64	4,739	85	132.81		
MISSOURI	242	26	294	8	30.77	-	-	-	-	-		
MONTANA	9	7	2,131	38	542.85	-	-	-	-	-		
NEBRASKA	80	18	616	12	66.67	19	88	12,689	96	109.09		
NEVADA	-	-	-	-	-	260	3,086	32,518	2,529	81.95		
NEW JERSEY	1	4	10,959	2	50.00	53	80	4,135	616	770.00		
NEW MEXICO	119	1,007	23,184	821	81.53	123	412	9,177	1,542	374.27		
NEW YORK	-	-	-	-	-	3	7	6,393	0	0.00		
NORTH DAKOTA	-	-	-	-	-	63	290	12,611	106	36.95		
OHIO	-	-	-	-	-	-	-	-	-	-		
OREGON	271	130	1,314	225	173.08	-	-	-	-	-		
PENNSYLVANIA	-	-	-	-	-	290	442	4,176	919	207.92		
RHODE ISLAND	-	-	-	-	-	10	34	9,315	152	447.06		
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-		
SOUTH DAKOTA	14	9	1,761	0	0.00	1,848	5,639	8,360	1,704	30.22		
TENNESSEE	-	-	-	-	-	47	31	1,807	85	274.19		
TEXAS	2	7	9,589	6	85.71	-	-	-	-	-		
UTAH	-	-	-	-	-	55	285	14,197	44	15.44		
VERMONT	-	-	-	-	-	11	1	43,249	0	0.00		
VIRGINIA	309	231	2,046	0	0.00	1	16	43,836	25	156.23		
WASHINGTON	-	-	-	-	-	145	305	5,763	365	119.67		
WEST VIRGINIA	-	-	-	-	-	10	12	3,288	0	0.00		
WISCONSIN	-	-	-	-	-	-	-	-	-	-		
WYOMING	252	96	1,044	157	163.54	6,086	19,445	8,754	28,081	144.41		
SUBTOTAL	1,448	1,779	3,366	2,051	115.29							
INCOMPLETE DATA												
ARKANSAS	-	-	-	-	-	-	-	-	-	-		
FLORIDA	-	-	-	-	-	-	-	-	-	-		
ILLINOIS	-	-	-	-	-	-	-	-	-	-		
MAINE	-	-	-	-	-	-	-	-	-	-		
MARYLAND	-	-	-	-	-	-	-	-	-	-		
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-		
NEW HAMPSHIRE	-	-	-	-	-	-	-	-	-	-		
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-		
OKLAHOMA	-	-	-	-	-	-	-	-	-	-		
STATE												
COMPLETE DATA												
ALABAMA												
ALASKA												
ARIZONA												
CALIFORNIA												
COLORADO												
CONNECTICUT												
DELAWARE												
DIST. OF COL.												
GEORGIA												
HAWAII												
IDAHO												
ILLINOIS												
INDIANA												
IOWA												
KANSAS												
KENTUCKY												
LOUISIANA												
MASSACHUSETTS												
MICHIGAN												
MINNESOTA												
MISSISSIPPI												
MISSOURI												
MONTANA												
NEBRASKA												
NEVADA												
NEW JERSEY												
NEW MEXICO												
NEW YORK												
NORTH DAKOTA												
OHIO												
OREGON												
PENNSYLVANIA												
RHODE ISLAND												
SOUTH CAROLINA												
SOUTH DAKOTA												
TENNESSEE												
TEXAS												
UTAH												
VERMONT												
VIRGINIA												
WASHINGTON												
WEST VIRGINIA												
WISCONSIN												
WYOMING												
SUBTOTAL												
INCOMPLETE DATA												
ARKANSAS												
FLORIDA												
ILLINOIS												
MAINE												
MARYLAND												
MASSACHUSETTS												
NEW HAMPSHIRE												
NORTH CAROLINA												
OKLAHOMA												

$\downarrow$  NONFATALLY INJURED PERSONS PER 100 MILLION VEHICLE MILES.

**TABLE 6-F. NONFATALLY INJURED PERSONS BY STATE AND HIGHWAY SYSTEM - 1983**

**NONFEDERAL-AID COLLECTOR HIGHWAYS**

STATE	RURAL				STATE	URBAN				
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS NUMBER		RATE 1/	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS NUMBER
COMPLETE DATA					COMPLETE DATA					
ALABAMA	7,167	995	380	1,407	141.41	661	671	2,781	1,376	205.07
ALASKA	898	143	436	274	191.61	39	87	6,112	158	181.61
ARIZONA	4,850	693	391	407	58.73	439	557	3,476	1,683	302.15
CALIFORNIA	12,078	3,588	814	17,200	475.38	2,510	3,066	3,347	5,458	178.02
COLORADO	17,365	1,376	217	2,602	189.10	35	43	3,366	167	388.37
CONNECTICUT	1,207	451	1,024	933	206.87	197	188	2,615	539	286.70
DELAWARE	159	50	862	86	172.00	27	29	2,943	26	89.66
DIST. OF COL.						4	9	6,164	68	755.56
GEORGIA	7,337	2,341	874	3,966	169.41					
HAWAII	196	145	2,027	146	100.69	88	213	6,631	185	86.85
IDAHO	4,867	450	253	216	48.00	71	113	4,360	102	90.27
INDIANA	10,695	1,482	380	1,457	98.31	45	53	3,227	90	169.61
IOWA	16,479	699	116	983	140.63	97	41	1,158	42	102.44
KANSAS	9,407	262	176	270	103.05	295	329	3,055	738	224.32
KENTUCKY	9,341	1,692	496	3,230	190.90	131	108	2,259	336	311.11
LOUISIANA	4,269	1,180	757	2,025	171.61	366	159	1,190	43	27.04
MICHIGAN	7,829	1,610	563	13,425	833.85	2,002	654	895	1,259	192.51
MINNESOTA	12,158	989	223	1,138	115.07	1,224	1,447	3,239	3,813	263.51
MISSISSIPPI	2,878	249	237	10	4.02					
MISSOURI	5,492	305	152	291	99.41	873	935	2,934	3,064	327.70
MONTANA	11,306	368	89	411	111.68	117	76	1,780	17	22.37
NEBRASKA	9,315	263	77	498	189.35					
NEVADA	2,483	150	166	108	72.00	340	276	2,224	765	277.17
NEW JERSEY	1,290	1,105	2,349	1,637	148.01	94	31	904	184	593.55
NEW MEXICO	3,176	1,253	218	348	137.55	202	90	1,221	1,006	1,117.78
NEW YORK	11,939	3,843	554	17,793	452.00	378	166	1,203	1,577	347.59
NORTH DAKOTA	8,136	215	72	204	94.88	23	19	2,663	52	273.68
OHIO	7,525	2,742	998	2,930	106.86	174	161	2,535	377	234.16
OREGON	9,079	1,054	318	620	58.82					
PENNSYLVANIA	9,049	2,393	725	4,869	203.47					
SOUTH CAROLINA	4,018	476	325	301	63.24					
SOUTH DAKOTA	7,347	171	64	146	85.38	611	355	1,592	509	143.38
TENNESSEE	11,281	2,722	561	478	17.55	47	41	2,390	130	317.07
TEXAS	20,698	2,321	307	1,985	65.52	3,740	4,136	3,030	53	1.28
UTAH	4,820	187	104	269	143.85	261	213	2,236	532	277.53
VERMONT	1,024	153	409	248	162.09					
VIRGINIA	2,353	351	409	842	235.89					
WASHINGTON	6,469	1,811	767	208	11.49	30	13	1,187	41	315.38
WEST VIRGINIA	2,192	318	397	585	183.96	2	9	1,761	245	1,861.11
WISCONSIN	6,696	935	383	654	69.95	531	403	2,079	4	44.44
WYOMING	7,602	382	138	215	56.28	38	31	2,235	730	181.14
SUBTOTAL	281,670	40,914	398	85,415	208.77	15,720	14,740	2,569	24,429	165.73
INCOMPLETE DATA										
ARKANSAS					INCOMPLETE DATA					
FLORIDA					ARKANSAS					
ILLINOIS					FLORIDA					
ILLINOIS					ILLINOIS					
MAINE					ILLINOIS					
MARYLAND					MAINE					
MASSACHUSETTS					MARYLAND					
NEW HAMPSHIRE					MASSACHUSETTS					
NEW HAMPSHIRE					NEW HAMPSHIRE					
NORTH CAROLINA					NEW HAMPSHIRE					
NORTH CAROLINA					WISCONSIN					
OKLAHOMA					WYOMING					
RHODE ISLAND					WYOMING					

1/ NONFATALLY INJURED PERSONS PER 100 MILLION VEHICLE MILES.

**TABLE 6-G. NONFATALLY INJURED PERSONS BY STATE AND HIGHWAY SYSTEM - 1983**  
**NONFEDERAL-AID LOCAL HIGHWAYS**

STATE	RURAL				STATE	URBAN					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATALLY INJURED PERSONS		
				NUMBER					RATE $\lambda$	NUMBER	RATE $\lambda$
COMPLETE DATA					COMPLETE DATA						
ALABAMA	48,648	2,805	158	1,406	50.12	9,857	2,828	786	8,588	303.58	
ALASKA	2,626	354	369	1,212	342.37	1,048	250	684	89	35.50	
ARIZONA	55,065	1,613	80	5,281	928.02	5,437	1,506	556	5,939	454.75	
CALIFORNIA	75,923	4,197	151	16,780	359.81	41,879	12,728	833	21,029	115.22	
COLORADO	38,337	1,423	102	1,714	120.45	7,047	2,666	1,036	3,001	162.22	
CONNECTICUT	5,968	771	384	1,619	209.99	6,679	1,533	999	5,037	328.57	
DELAWARE	2,678	377	386	886	235.01	1,037	378	999	603	159.52	
DIST. OF COL.						1,102	269	1,102	3,878	1,441.64	
GEORGIA	55,638	1,888	93	3,420	181.14	13,370	3,073	1,370	6,561	216.76	
HAWAII	1,932	264	374	557	210.98	1,481	703	2,064	1,585	225.46	
IDAHO	54,026	1,932	40	1,734	222.59	11,781	3,258	758	1,585	200.68	
INDIANA	49,037	1,750	98	4,565	259.43	5,210	1,065	560	7,055	216.54	
IOWA	65,279	1,456	61	1,489	102.27	11,781	3,258	758	1,585	200.68	
KANSAS	83,527	1,529	40	2,772	225.55	5,210	1,065	560	7,055	216.54	
KENTUCKY	41,275	1,794	119	3,702	206.35	5,210	1,065	560	7,055	216.54	
LOUISIANA	30,932	1,213	145	7,634	467.77	8,854	1,403	792	3,528	251.46	
MICHIGAN	80,368	2,332	55	20,137	1,560.10	16,538	1,225	377	22,753	1,858.20	
MINNESOTA	80,368	1,064	79	958	41.08	9,082	1,940	321	53,281	2,745.44	
MISSISSIPPI	43,456	1,607	67	2,425	227.91	4,757	1,415	639	3,807	179.74	
MISSOURI	73,415	2,547	97	5,279	202.49	9,951	511	915	1,581	111.73	
MONTANA	46,691	1,095	38	1,834	283.46	1,677	820	230	1,544	169.48	
NEBRASKA	59,313	1,932	21	2,103	192.05	3,160	502	432	1,407	45.00	
NEVADA	33,697	264	21	197	74.62	3,160	502	432	1,407	45.00	
NEW JERSEY	7,451	785	289	2,758	351.34	2,045	403	540	1,145	284.12	
NEW MEXICO	38,236	1,433	52	1,433	205.65	15,748	9,541	1,560	15,813	165.74	
NEW YORK	48,669	3,521	198	30,485	865.80	3,236	1,056	894	2,636	249.62	
NORTH DAKOTA	59,747	714	33	673	94.26	25,026	6,354	696	35,620	560.75	
OHIO	57,831	6,552	310	8,984	137.12	19,884	9,758	1,345	30,879	210.76	
OREGON	102,827	1,402	37	1,239	88.37	5,638	889	432	3,863	316.45	
PENNSYLVANIA	61,055	5,137	231	6,012	155.97	19,083	5,138	738	29,812	434.53	
SOUTH CAROLINA	36,148	2,613	198	2,496	95.52	6,180	933	414	2,426	580.23	
SOUTH DAKOTA	46,879	524	31	823	157.06	1,010	223	605	260.02		
TENNESSEE	49,267	1,564	87	4,753	303.90	8,562	3,912	223	487	218.39	
TEXAS	142,158	4,691	90	15,234	324.75	47,848	18,393	1,252	8,405	214.85	
UTAH	30,351	509	46	763	149.90	3,701	1,292	1,053	81,368	442.39	
VERMONT	8,770	372	116	917	254.57	3,701	1,292	975	2,826	218.73	
VIRGINIA	33,758	2,892	235	4,656	162.32	8,547	195	977	6,248	144.10	
WASHINGTON	92,367	544	28	1,522	279.78	9,900	678	188	5,821	165.95	
WEST VIRGINIA	20,546	520	123	3,444	374.35	1,898	216	312	2,202	1,019.44	
WISCONSIN	67,486	1,648	67	5,633	341.81	9,308	3,005	884	13,520	449.92	
WYOMING	22,755	1,239	29	615	257.32	893	125	384	385	308.00	
SUBTOTAL	1,894,192	66,918	97	182,285	272.40	362,544	108,586	821	402,512	370.68	
INCOMPLETE DATA											
ARKANSAS											
FLORIDA											
ILLINOIS											
INDIANA											
MAINE											
MARYLAND											
MASSACHUSETTS											
NEW HAMPSHIRE											
NORTH CAROLINA											
OKLAHOMA											
RHODE ISLAND											

$\lambda$  NONFATALLY INJURED PERSONS PER 100 MILLION VEHICLE MILES.

### SECTION III—OTHER RATES

#### A. Highway Mileage

Vehicle mileage rates for the United States, listed in Table 1, are the most common measure of safety performance. For some purposes, rates per mile of highway may be more useful. These are listed in Table 7. Note that, because of the concentration of travel on highway systems with the fewest fatalities per vehicle-mile, highways on these systems tend to have the highest number of fatalities per highway mile.

#### B. Population

Population rates are most useful for comparing motor vehicle accidents with other public health problems. In 1978, only heart disease, cancer, stroke, and pneumonia were responsible for more deaths, according to the National Center for Health Statistics. State rates per thousand residents are listed in Table 8 for fatal and nonfatal injury accidents, fatalities, and nonfatally injured persons.

#### C. Licensed Drivers

The number of accidents per licensed driver reflects both the care with which drivers operate their vehicles and the amount of travel under various conditions. State accident, fatality, and injury rates per licensed driver are listed in Table 9.

#### D. Registered Vehicles

As is the case with licensed drivers, the number of accidents per registered vehicle is affected both by the care with which the vehicle is driven and the amount of travel under various conditions. State rates per registered vehicle are listed in Table 10.

TABLE 7. U.S. HIGHWAY-MILE RATES BY HIGHWAY SYSTEM - 1983

HIGHWAY SYSTEM	HIGHWAY MILES <sup>2/</sup>	VEHICLE MILES (MILLIONS) <sup>2/</sup>	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS		NONFATAL INJURY ACCIDENTS <sup>4/</sup>		FATALITIES		NONFATAL INJURED PERSONS <sup>4/</sup>	
				NUMBER	RATE <sup>3/</sup>	NUMBER	RATE <sup>3/</sup>	NUMBER	RATE <sup>3/</sup>	NUMBER	RATE <sup>3/</sup>
INTERSTATE (ARTERIAL)											
RURAL	32,788	144,733	12,094	1,872	57.09	36,534	1,114.2	2,178	66.43	58,421	1,781.8
URBAN	10,240	191,149	51,142	1,719	167.87	91,765	8,961.4	1,929	188.38	136,945	13,373.5
TOTAL	43,028	335,882	21,387	3,591	83.46	128,299	2,981.8	4,107	95.45	195,366	4,540.4
OTHER FEDERAL-AID PRIMARY (ARTERIAL)											
RURAL	225,928	269,712	3,271	8,640	38.24	196,408	869.3	10,266	45.44	326,882	1,446.8
URBAN	31,084	213,460	18,614	3,580	115.17	253,111	8,142.8	3,987	128.27	386,774	12,442.8
TOTAL	257,012	483,172	5,151	12,220	47.55	449,519	1,749.0	14,253	55.45	713,656	2,775.7
FEDERAL-AID URBAN											
ARTERIAL	83,944	292,638	9,551	6,595	78.56	513,500	6,117.2	7,091	84.47	762,635	9,085.0
COLLECTOR	53,251	87,379	3,467	1,368	25.65	112,276	2,108.4	1,469	27.59	160,505	3,014.1
TOTAL (ALL URBAN)	137,195	380,017	7,189	7,963	58.04	625,776	4,561.2	8,560	62.39	923,140	6,728.7
FEDERAL-AID SECONDARY (COLLECTOR)											
TOTAL (ALL RURAL)	397,329	148,250	1,022	5,259	13.24	146,211	368.0	6,017	15.14	227,177	571.8
NON-FEDERAL-AID ARTERIAL											
RURAL	2,861	3,671	3,515	69	24.12	2,392	836.1	87	30.41	4,316	1,508.6
URBAN	8,317	24,487	8,066	613	73.70	24,150	2,903.7	640	76.95	36,063	4,336.1
TOTAL	11,178	28,158	6,902	682	61.01	26,542	2,374.5	727	65.04	40,379	3,612.4
NON-FEDERAL-AID COLLECTOR											
RURAL	336,990	52,342	426	1,867	5.54	74,936	222.4	2,061	6.12	111,441	330.7
URBAN	19,278	19,213	2,730	332	17.22	22,383	1,151.1	355	18.41	32,473	1,684.5
TOTAL	356,268	71,555	550	2,199	6.17	97,319	273.2	2,416	6.78	143,914	403.9
NON-FEDERAL-AID LOCAL											
RURAL	2,221,392	81,825	101	3,373	1.52	156,210	70.3	3,684	1.66	227,311	102.3
URBAN	456,236	140,247	842	2,679	5.87	375,562	832.2	2,832	6.21	530,177	1,162.1
TOTAL	2,677,628	222,072	227	6,052	2.26	531,772	198.6	6,516	2.43	757,488	282.9
ALL FEDERAL-AID											
RURAL	656,045	582,695	2,350	15,771	24.04	379,153	577.9	18,461	28.14	612,480	933.6
URBAN	178,519	784,626	11,735	17,262	74.29	970,652	5,437.2	14,476	81.09	1,446,859	8,104.8
TOTAL	834,564	1,327,321	4,357	29,033	34.79	1,349,805	1,617.4	32,937	39.47	2,059,339	2,457.6
ALL NON-FEDERAL-AID											
RURAL	2,561,243	137,838	147	5,309	2.07	233,538	91.2	5,832	2.28	343,068	133.9
URBAN	492,831	193,947	1,042	3,624	7.49	422,095	872.4	3,827	7.91	598,713	1,237.4
TOTAL	3,045,074	321,785	290	8,933	2.93	655,633	215.3	9,659	3.17	941,781	309.3
NON-INTERSTATE											
RURAL	3,184,500	555,800	478	19,208	6.03	576,157	180.9	22,115	6.94	897,127	281.7
URBAN	652,110	757,424	3,182	15,167	23.26	1,300,982	1,995.0	16,374	25.11	1,908,627	2,626.8
TOTAL	3,836,610	1,313,224	938	34,375	8.96	1,877,139	489.3	38,489	10.03	2,805,754	731.3
TOTAL											
RURAL	3,217,288	700,532	597	21,080	6.55	612,591	190.4	24,293	7.55	955,548	297.0
URBAN	662,350	948,573	3,924	16,886	25.49	1,992,747	2,102.7	18,303	27.63	2,045,572	3,088.4
TOTAL	3,879,638	1,649,106	1,165	37,966	9.79	2,005,438	516.9	42,596	10.98	3,001,120	773.6

<sup>1/</sup> U.S. ESTIMATES EXCLUDE THE COMMONWEALTH OF PUERTO RICO AND THE TERRITORIES OF AMERICAN SAMOA, GUAM, AND VIRGIN ISLANDS. ESTIMATES FOR FATAL ACCIDENTS, FATALITIES, NONFATAL INJURY ACCIDENTS AND NONFATAL INJURED PERSONS ARE BASED ON THE PARTIAL DATA REPORTED BY STATES WHICH ARE DISPLAYED IN THE FOLLOWING TABLES, TOGETHER WITH TOTALS REPORTED BY MOST STATES.

<sup>2/</sup> MILEAGE AND TRAVEL DATA ARE FROM THE HIGHWAY PERFORMANCE MONITORING SYSTEM (HPMS) FOR 1983. FEDERAL-AID HIGHWAY MILEAGE IS FROM HPMS UNIVERSE DATA AS OF SEPTEMBER 30, 1984 AND VEHICLE-MILES OF TRAVEL ARE FROM THE HPMS AREAWIDE SUMMARY TABLES AS OF SEPTEMBER 30, 1984. FEDERAL HIGHWAY ADMINISTRATION ESTIMATES WERE MADE FOR MAJOR HIGHWAY CATEGORIES WHERE COMPLETE FUNCTIONAL OR FEDERAL-AID SYSTEM DATA WERE NOT REPORTED.

<sup>3/</sup> RATES ARE PER 1000 HIGHWAY MILES.

<sup>4/</sup> TOTALS OF NONFATAL INJURY ACCIDENTS AND NONFATAL INJURED PERSONS WERE ESTIMATED BY FHWA FOR ARKANSAS, FLORIDA, ILLINOIS, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE AND RHODE ISLAND.

**TABLE 8. FATAL AND INJURY ACCIDENT DATA  
RELATED TO POPULATION - 1983**

STATE	POPULATION		RATES PER THOUSAND PERSONS			
	NUMBER (THOUSANDS)	VEHICLE MILES PER CAPITA	FATAL ACCIDENT RATE	FATALITY RATE	NONFATAL INJURY ACCIDENT RATE	NONFATAL INJURY RATE
ALABAMA	3,959	7,838	0.21	0.24	5.74	8.25
ALASKA	479	7,010	0.28	0.31	9.35	14.00
ARIZONA	2,963	6,619	0.21	0.23	10.69	16.90
ARKANSAS	2,328	7,167	0.21	0.24	1/ 0.00	1/ 0.00
CALIFORNIA	25,174	7,256	0.16	0.18	7.80	11.62
COLORADO	3,139	7,680	0.19	0.21	8.86	12.94
CONNECTICUT	3,138	6,574	0.13	0.14	10.27	14.34
DELAWARE	606	8,063	0.16	0.18	7.59	11.44
DIST. OF COL.	623	4,974	0.10	0.12	14.60	21.63
FLORIDA	10,680	7,657	0.23	0.25	1/ 0.00	1/ 0.00
GEORGIA	5,732	8,520	0.20	0.23	7.56	11.26
HAWAII	1,023	5,741	0.13	0.14	8.08	11.56
IDAHO	989	8,379	0.23	0.27	7.33	11.33
ILLINOIS	11,486	5,865	0.12	0.13	1/ 0.00	1/ 0.00
INDIANA	5,479	7,271	0.16	0.19	7.75	11.37
IOWA	2,905	6,768	0.15	0.18	6.21	8.97
KANSAS	2,425	7,486	0.15	0.17	8.12	12.09
KENTUCKY	3,714	7,194	0.19	0.21	7.47	11.18
LOUISIANA	4,438	6,213	0.19	0.21	10.08	16.72
MAINE	1,146	6,914	0.17	0.20	1/ 0.00	1/ 0.00
MARYLAND	4,304	7,114	0.14	0.15	1/ 0.00	1/ 0.00
MASSACHUSETTS	5,767	6,510	0.10	0.11	1/ 0.00	1/ 0.00
MICHIGAN	9,069	6,710	0.13	0.14	10.02	14.98
MINNESOTA	4,144	7,496	0.12	0.13	6.38	9.20
MISSISSIPPI	2,587	6,881	0.24	0.28	3.70	5.57
MISSOURI	4,970	7,353	0.16	0.18	7.33	11.04
MONTANA	817	8,789	0.31	0.35	7.48	11.44
NEBRASKA	1,597	7,222	0.14	0.16	8.34	12.45
NEVADA	891	7,713	0.25	0.28	8.87	13.44
NEW HAMPSHIRE	959	7,488	0.17	0.20	1/ 0.00	1/ 0.00
NEW JERSEY	7,468	6,992	0.12	0.12	10.83	16.15
NEW MEXICO	1,399	8,347	0.34	0.39	10.69	16.53
NEW YORK	17,667	4,742	0.11	0.12	9.73	14.22
NORTH CAROLINA	6,082	7,405	0.18	0.20	8.76	13.81
NORTH DAKOTA	680	7,887	0.15	0.17	5.31	8.08
OHIO	10,746	6,813	0.13	0.15	9.62	15.12
OKLAHOMA	3,298	8,965	0.22	0.26	6.60	9.77
OREGON	2,662	7,722	0.18	0.21	8.67	14.04
PENNSYLVANIA	11,895	6,078	0.13	0.14	7.09	10.60
RHODE ISLAND	955	6,297	0.10	0.10	1/ 0.00	1/ 0.00
SOUTH CAROLINA	3,264	7,652	0.23	0.26	4.88	7.19
SOUTH DAKOTA	700	9,024	0.21	0.25	5.95	8.95
TENNESSEE	4,685	7,740	0.20	0.22	8.01	11.58
TEXAS	15,724	8,387	0.21	0.24	8.76	13.24
UTAH	1,619	6,931	0.16	0.17	7.61	11.68
VERMONT	525	7,907	0.16	0.18	7.69	11.50
VIRGINIA	5,550	7,621	0.14	0.16	7.87	11.18
WASHINGTON	4,300	8,406	0.15	0.16	9.37	13.95
WEST VIRGINIA	1,965	5,952	0.20	0.22	8.24	12.91
WISCONSIN	4,751	7,179	0.14	0.15	8.06	11.59
WYOMING	514	9,842	0.30	0.34	6.99	10.72
U. S. TOTAL	233,980	7,048	0.16	0.18	2/ 8.57	3/ 12.83

1/ RATE COULD NOT BE COMPUTED BECAUSE DATA WAS NOT REPORTED OR WAS NOT USABLE.  
2/ THE RATE IS BASED ON THE ESTIMATED U. S. TOTAL OF NONFATAL INJURY ACCIDENTS FROM TABLE 2.  
3/ THE RATE IS BASED ON THE ESTIMATED U. S. TOTAL OF NONFATAL INJURED PERSONS FROM TABLE 2.

**TABLE 9. FATAL AND INJURY ACCIDENT DATA  
RELATED TO LICENSED DRIVERS - 1983**

STATE	LICENSED DRIVERS		RATES PER THOUSAND DRIVERS			
	NUMBER (THOUSANDS)	VEHICLE MILES PER DRIVER	FATAL ACCIDENT RATE	FATALITY RATE	NONFATAL INJURY ACCIDENT RATE	NONFATAL INJURY RATE
ALABAMA	2,394	12,962	0.34	0.39	9.49	13.65
ALASKA	289	11,619	0.47	0.52	15.49	23.20
ARIZONA	2,179	9,000	0.28	0.31	14.54	22.98
ARKANSAS	1,650	10,112	0.29	0.34	1/ 0.00	1/ 0.00
CALIFORNIA	16,649	10,971	0.25	0.27	11.80	17.57
COLORADO	2,229	10,816	0.27	0.29	12.47	18.22
CONNECTICUT	2,250	9,169	0.18	0.19	14.33	20.00
DELAWARE	432	11,310	0.23	0.25	10.64	16.05
DIST. OF COL.	370	8,376	0.17	0.19	24.58	36.43
FLORIDA	8,347	9,797	0.29	0.32	1/ 0.00	1/ 0.00
GEORGIA	3,725	13,111	0.31	0.35	11.63	17.33
HAWAII	575	10,214	0.23	0.24	14.37	20.57
IDAHO	648	12,789	0.36	0.41	11.19	17.30
ILLINOIS	6,985	9,645	0.20	0.22	1/ 0.00	1/ 0.00
INDIANA	3,551	11,219	0.25	0.29	11.95	17.54
IOWA	1,929	10,192	0.22	0.26	9.36	13.50
KANSAS	1,681	10,799	0.21	0.24	11.71	17.44
KENTUCKY	2,193	12,184	0.31	0.35	12.65	18.93
LOUISIANA	2,767	9,965	0.30	0.34	16.16	26.82
MAINE	770	10,291	0.26	0.29	1/ 0.00	1/ 0.00
MARYLAND	2,799	10,939	0.22	0.23	1/ 0.00	1/ 0.00
MASSACHUSETTS	3,679	10,204	0.16	0.18	1/ 0.00	1/ 0.00
MICHIGAN	6,345	9,591	0.19	0.21	14.32	21.40
MINNESOTA	2,374	13,085	0.21	0.23	11.15	16.05
MISSISSIPPI	1,803	9,874	0.35	0.40	5.30	8.00
MISSOURI	3,323	10,997	0.24	0.27	10.96	16.51
MONTANA	489	14,685	0.52	0.58	12.49	19.11
NEBRASKA	1,095	10,533	0.20	0.23	12.16	18.16
NEVADA	676	10,166	0.32	0.37	11.69	17.71
NEW HAMPSHIRE	697	10,303	0.24	0.27	1/ 0.00	1/ 0.00
NEW JERSEY	5,459	9,565	0.16	0.17	14.81	22.09
NEW MEXICO	766	15,245	0.62	0.72	19.52	30.18
NEW YORK	9,606	8,722	0.20	0.22	17.89	26.16
NORTH CAROLINA	3,966	11,356	0.27	0.31	13.44	21.18
NORTH DAKOTA	432	12,414	0.24	0.27	8.37	12.72
OHIO	7,397	9,898	0.19	0.21	13.98	21.96
OKLAHOMA	2,174	13,599	0.33	0.39	10.02	14.83
OREGON	1,901	10,814	0.25	0.29	12.13	19.66
PENNSYLVANIA	7,443	9,714	0.21	0.23	11.34	16.94
RHODE ISLAND	603	9,973	0.16	0.17	1/ 0.00	1/ 0.00
SOUTH CAROLINA	2,008	12,439	0.37	0.42	7.93	11.68
SOUTH DAKOTA	482	13,106	0.30	0.36	8.64	13.00
TENNESSEE	2,933	12,363	0.31	0.35	12.80	18.49
TEXAS	11,406	11,563	0.29	0.34	12.07	18.25
UTAH	926	12,118	0.27	0.31	13.30	20.42
VERMONT	361	11,499	0.24	0.26	11.18	16.73
VIRGINIA	3,704	11,420	0.22	0.24	11.80	16.75
WASHINGTON	2,867	12,607	0.22	0.24	14.05	20.92
WEST VIRGINIA	1,417	8,254	0.28	0.31	11.43	17.91
WISCONSIN	3,086	11,052	0.21	0.23	12.41	17.84
WYOMING	394	12,840	0.39	0.44	9.12	13.99
U.S. TOTAL	154,220	10,693	0.25	0.28	2/ 13.00	3/ 19.46

1/ RATE COULD NOT BE COMPUTED BECAUSE DATA WAS NOT REPORTED OR WAS NOT USABLE.  
2/ THE RATE IS BASED ON THE ESTIMATED U. S. TOTAL OF NONFATAL INJURY ACCIDENTS FROM TABLE 2.  
3/ THE RATE IS BASED ON THE ESTIMATED U. S. TOTAL OF NONFATALLY INJURED PERSONS FROM TABLE 2.

**TABLE 10. FATAL AND INJURY ACCIDENT DATA  
RELATED TO VEHICLE REGISTRATIONS - 1983**

STATE	REGISTERED VEHICLES		RATES PER THOUSAND VEHICLES			
	NUMBER (THOUSANDS)	VEHICLE MILES PER VEHICLE	FATAL ACCIDENT RATE	FATALITY RATE	NONFATAL INJURY ACCIDENT RATE	NONFATAL INJURY RATE
ALABAMA	3,145	9,867	0.26	0.30	7.22	10.39
ALASKA	350	9,594	0.39	0.43	12.79	19.16
ARIZONA	2,289	8,567	0.27	0.29	13.84	21.88
ARKANSAS	1,445	11,546	0.34	0.39	1/ 0.00	1/ 0.00
CALIFORNIA	17,767	10,280	0.23	0.26	11.05	16.47
COLORADO	2,649	9,101	0.22	0.24	10.50	15.33
CONNECTICUT	2,305	8,950	0.18	0.19	13.98	19.53
DELAWARE	427	11,443	0.23	0.26	10.77	16.23
DIST. OF COL.	233	13,300	0.27	0.31	39.03	57.85
FLORIDA	8,808	9,284	0.27	0.30	1/ 0.00	1/ 0.00
GEORGIA	4,208	11,606	0.27	0.31	10.29	15.34
HAWAII	616	9,534	0.21	0.23	13.42	19.20
IDAHO	877	9,449	0.26	0.30	8.26	12.78
ILLINOIS	7,513	8,967	0.18	0.20	1/ 0.00	1/ 0.00
INDIANA	3,852	10,342	0.23	0.26	11.02	16.17
IOWA	2,479	7,931	0.18	0.21	7.28	10.51
KANSAS	2,048	8,864	0.18	0.20	9.61	14.32
KENTUCKY	2,621	10,194	0.26	0.30	10.58	15.84
LOUISIANA	2,877	9,584	0.29	0.32	15.54	25.79
MAINE	766	10,345	0.26	0.29	1/ 0.00	1/ 0.00
MARYLAND	3,011	10,169	0.20	0.22	1/ 0.00	1/ 0.00
MASSACHUSETTS	3,840	9,776	0.16	0.17	1/ 0.00	1/ 0.00
MICHIGAN	6,295	9,667	0.19	0.21	14.44	21.57
MINNESOTA	3,282	9,465	0.15	0.17	8.06	11.61
MISSISSIPPI	1,560	11,412	0.40	0.46	6.13	9.24
MISSOURI	3,433	10,645	0.23	0.27	10.61	15.98
MONTANA	829	8,662	0.31	0.34	7.37	11.28
NEBRASKA	1,235	9,339	0.18	0.21	10.78	16.10
NEVADA	730	9,414	0.30	0.35	10.83	16.40
NEW HAMPSHIRE	803	8,943	0.21	0.24	1/ 0.00	1/ 0.00
NEW JERSEY	4,941	10,568	0.18	0.19	16.36	24.41
NEW MEXICO	1,237	9,441	0.38	0.44	12.09	18.69
NEW YORK	8,417	9,954	0.23	0.25	20.42	29.86
NORTH CAROLINA	4,603	9,784	0.24	0.27	11.58	18.25
NORTH DAKOTA	666	8,053	0.16	0.17	5.43	8.25
OHIO	7,768	9,425	0.18	0.20	13.31	20.91
OKLAHOMA	2,769	10,677	0.26	0.30	7.86	11.64
OREGON	2,121	9,692	0.23	0.26	10.88	17.62
PENNSYLVANIA	6,844	10,564	0.22	0.25	12.33	18.42
RHODE ISLAND	598	10,057	0.16	0.17	1/ 0.00	1/ 0.00
SOUTH CAROLINA	2,058	12,137	0.36	0.41	7.74	11.40
SOUTH DAKOTA	629	10,043	0.23	0.28	6.62	9.96
TENNESSEE	3,537	10,252	0.26	0.29	10.61	15.33
TEXAS	11,695	11,277	0.28	0.33	11.77	17.80
UTAH	1,074	10,448	0.24	0.26	11.47	17.61
VERMONT	367	11,311	0.23	0.25	10.99	16.46
VIRGINIA	3,894	10,863	0.21	0.23	11.22	15.93
WASHINGTON	3,338	10,828	0.19	0.21	12.07	17.97
WEST VIRGINIA	1,295	9,032	0.30	0.34	12.50	19.60
WISCONSIN	3,214	10,612	0.20	0.23	11.91	17.13
WYOMING	502	10,078	0.30	0.35	7.16	10.98
U.S. TOTAL	163,860	10,064	0.23	0.26	2/ 12.24	3/ 18.32

1/ RATE COULD NOT BE COMPUTED BECAUSE DATA WAS NOT REPORTED OR WAS NOT USABLE.

2/ THE RATE IS BASED ON THE ESTIMATED U. S. TOTAL OF NONFATAL INJURY ACCIDENTS FROM TABLE 2.

3/ THE RATE IS BASED ON THE ESTIMATED U. S. TOTAL OF NONFATALLY INJURED PERSONS FROM TABLE 2.



SECTION IV--PUERTO RICO AND U.S. TERRITORIES

Travel and accident data reported by Puerto Rico for calendar year 1983 are tabulated below. Data were not reported for 1983 by U.S. territories.

TABLE 11 -- FATAL AND INJURY ACCIDENTS IN PUERTO RICO, 1983

PERSONS INJURED	INJURY ACCIDENTS		VEHICLE MILES		HIGHWAY MILES	MILES	VEHICLE MILES (millions)	FATAL		NONFATAL		FATALLY		NONFATALLY		Number Rate*		
	Number	Rate*	Number	Rate*				Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*		Number	Rate*
183,50	60	5.53	1,991	1.64	920	88.72	1,037	17	1.64	580	55.93	17	1.64	920	88.72	1,991	1.64	
135	59	5.44	1,087	1.087	100.18	88.72	1,085	59	5.44	1,087	100.18	59	5.44	1,991	1.64	1,991	1.64	
68	17	1.64	580	55.93	17	88.72	1,037	17	1.64	580	55.93	17	1.64	920	88.72	920	1.64	
342	62	6.10	2,517	247.49	72	7.08	1,017	62	6.10	2,517	247.49	72	7.08	4,337	426.45	4,337	7.08	
106	64	7.77	3,302	400.73	69	8.37	824	64	7.77	3,302	400.73	69	8.37	5,234	635.19	5,234	8.37	
714	43	6.51	2,281	345.08	43	6.51	661	43	6.51	2,281	345.08	43	6.51	3,383	511.80	3,383	6.51	
349	89	4.85	5,643	307.35	92	5.01	1,836	89	4.85	5,643	307.35	92	5.01	8,113	441.88	8,113	5.01	
1,714	334	5.17	15,410	238.54	353	5.46	6,460	334	5.17	15,410	238.54	353	5.46	23,978	371.18	23,978	5.46	
3,780	119	14.99	5,982	753.40	123	15.49	794	119	14.99	5,982	753.40	123	15.49	8,486	1068.77	8,486	15.49	
2,509	42	2.64	5,966	375.46	44	2.77	1,589	42	2.64	5,966	375.46	44	2.77	7,625	479.86	7,625	2.77	
6,289	161	6.76	11,948	501.38	167	7.01	2,383	161	6.76	11,948	501.38	167	7.01	16,111	676.08	16,111	7.01	
4,971	283	7.96	11,867	333.62	298	8.38	3,557	283	7.96	11,867	333.62	298	8.38	18,197	511.58	18,197	8.38	
3,032	212	4.01	15,491	293.06	222	4.20	5,286	212	4.01	15,491	293.06	222	4.20	21,892	414.15	21,892	4.20	
8,003	495	5.60	27,358	309.37	520	5.88	8,843	495	5.60	27,358	309.37	520	5.88	40,089	453.34	40,089	5.88	
TOTAL																		

\* Per 100 million vehicle-miles

## SECTION V—RELATIONSHIP OF FATALITY RATES TO TRAVEL DENSITY

The vehicle-mile fatality rate is the measure most commonly used for comparing the safety of different highway systems or the safety of highways in different States. A State often judges its own performance by comparing its fatality rates with the national fatality rate. The primary reason for differences in fatality rates appears to be variation in travel density over which the States have little control. Because the travel density varies widely among the States, it should not be expected that all States will have similar fatality rates. While there are without question many reasons other than variation in travel density for differences among the fatality rates of the States, it is difficult to quantify these reasons well enough to develop reliable definitions of relationships between fatality rates and specific features.

The general characteristics of the relationship between fatality rates and travel density were described in Section I. Curves illustrating provisional rate-density relationships have been derived from reported data for the 4-year period from 1979 through 1982. The relationships must be regarded as provisional because they are based on data which are incomplete and known to contain errors. Despite their flaws, the curves provide a more suitable base than the national fatality rate for evaluating State rates. A curve describing the provisional rate-density relationship for all highways in the States is shown in Figure 7-A1.

In comparing State fatality rates a second consideration should be taken into account. Even if the risk (probability) of traffic fatalities were dependent only on travel density, rates would vary at random from those on the rate-density curve. (Accidents and related rates are "random" in a statistical sense—while any attempt to drive a vehicle a given distance may or may not result in an accident, there is nonetheless a degree of statistical regularity which permits reasonably reliable estimation of the number of accidents expected from a large number of attempts. To speak of accidents as random events is not to say that accidents are unrelated to driving hazards or driver skill.) The random variation of fatality rates is larger when the volume of traffic is small. For example, a random variation of 10 percent would be much more likely to occur in the Delaware fatality rate than in fatality rates for California or New York.

The random variation of fatality rates is somewhat analogous to the random variation observed when flipping a coin repeatedly. If the probability of "heads" is 1 in 2, the ratio of the number of heads to the number of flips approaches  $1/2$  as the number of flips increases. Similarly, if the probability that a fatality will result from an attempt to drive one vehicle-mile is 3 in 100 million, the ratio of fatalities to vehicle-miles will approach  $3/(100 \text{ million})$  as the number of vehicle-miles increases. While the number of vehicle-miles or flips of a coin is increasing, ratios vary at random. The amount of variation can be computed by applying the binomial probability law for the appropriate number of vehicle-miles or flips. Approximations of the binomial law are commonly used to simplify computation.

\*\*\*\*\*

\* \* \* \* \*

USING RATE-DENSITY RELATIONSHIPS

\* \* \* \* \*

Rate-density curves may be regarded as sets of provisional national norms for fatality rates. Figure 7-A1 on page 53 shows the rate-density curve for all roads in the United States.

\* \* \* \* \*

For a particular State, the value of the provisional national norm depends on the daily number of vehicle-miles per mile of highway—or average daily traffic (ADT) in that State. For a State with a daily average of 2,000 vehicle-miles of travel per mile of highway, Figure 7-A1 indicates that a normal fatality rate would be slightly above 3 fatalities per 100 million vehicle-miles.

\* \* \* \* \*

Some random deviation of State rates from provisional national norms is expected. Most of this random deviation would fall within provisional ranges such as those shown in Figure 7-A2 on page 54. Differences in the width of provisional ranges reflect differences in volumes of travel; ranges are widest in the States with the least travel. When State rates fall above or below the provisional ranges, the deviation from the provisional national norm is likely to be caused by something other than random variation. Possible causes include effective safety programs, hazardous highways, inconsistent data, and many other contributing factors.

\* \* \* \* \*

Figure 7 may be used to answer questions such as:

\* \* \* \* \*

- 1. Where are successful safety programs most likely to be found?

\* \* \* \* \*

See Figures 7-A2, -B2, etc. Those States where the 1983 fatality rate is to the left of the provisional range are most likely to have successful safety programs.

\* \* \* \* \*

- 2. Are safety programs in a particular State more likely to have been successful on some systems than on others?

\* \* \* \* \*

See Figures 7-C2, -D2, etc. Safety programs are more likely to have been successful on those highway systems where the 1983 fatality rate is to the left of the provisional range.

\* \* \* \* \*

- 3. Where, in a particular State, is the greatest potential for improvement of safety programs likely to be found?

\* \* \* \* \*

See Figures 7-C2, -D2, etc. The greatest potential for reduction of traffic deaths in a State is likely to be on those highway systems where the 1983 fatality rate is to the right of the provisional range.

\* \* \* \* \*

\*\*\*\*\*

The application of the binomial probability law to accident rates yields results that approximate observed experience. This procedure is widely used by the States to identify hazardous sections of highway. It does not give precise results primarily because the probability of a fatality (or other event of interest) is not the same for every attempt that is made to drive a vehicle-mile without an accident.

The rate-density curve in Figure 7A-1 is an exponential curve fitted to the data points by a weighted least squares procedure. Each data point is defined by a State fatality rate and travel density for the 4-year period. The point is weighted in proportion to the vehicle-miles of travel in the State during those 4 years.

Because the volume of travel is different for each State, the magnitude of random variation is also different. To illustrate the effect of the differences, provisional ranges have been computed and are shown in Figure 7-A2. For each State, the observed 1983 fatality rate is shown along with a provisional range centered upon a value taken from the rate density curve in Figure 7-A1. If variations from rates on the rate-density curve in Figure 7-A1 followed a binomial distribution, the probability would be 99 out of 100 that each observed rate would fall within the provisional range shown in Figure 7-A2. Conversely, the chances would be only 1 in 100 that an observed rate would fall outside the provisional range if the risk were the same in 1983 as in the preceding 4 years and variation from the rate-density curve were random. If a rate falls above or below the range shown, it is likely that it is unusually high or low for some reason other than random variation. It is evident from Figure 7-A2 that most State fatality rates varied significantly from the provisional rate-density curve. While the 1983 fatality rates were about the same for New York and Delaware, New York's rate was substantially lower than State rates observed for a similar travel density in the preceding 4-year period. Delaware's rate, on the other hand, is well within the provisional range, where deviation from the rate-density curve is less significant. Analysis of the possible reasons for the low rate in New York and the rates outside provisional ranges in many other States is beyond the scope of this report. In Figure 7-A2, States are arranged in order of travel density to facilitate comparison of States with similar travel densities; the State with the most vehicle miles per mile of highway (i.e., the highest average daily traffic) is at the top.

In Figures 7-B1, 7-B2a, and 7-B2b, rural and urban fatality rates for each State are shown separately but in the same manner as the information in Figures 7-A1 and 7-A2.

Other provisional ranges relationships, as well as provisional rate changes and observed fatality rates for the highway systems in each State, are shown in Figures 7-C1 through 7-F2b.

It can be seen in Figure 7 that, for every system, fatality rates observed in 1983 were rarely above the provisional range based on 1979 through 1982 experience.



**Figure 7-A2 FATALITY RATE BY STATE--ALL HIGHWAYS (1983)**

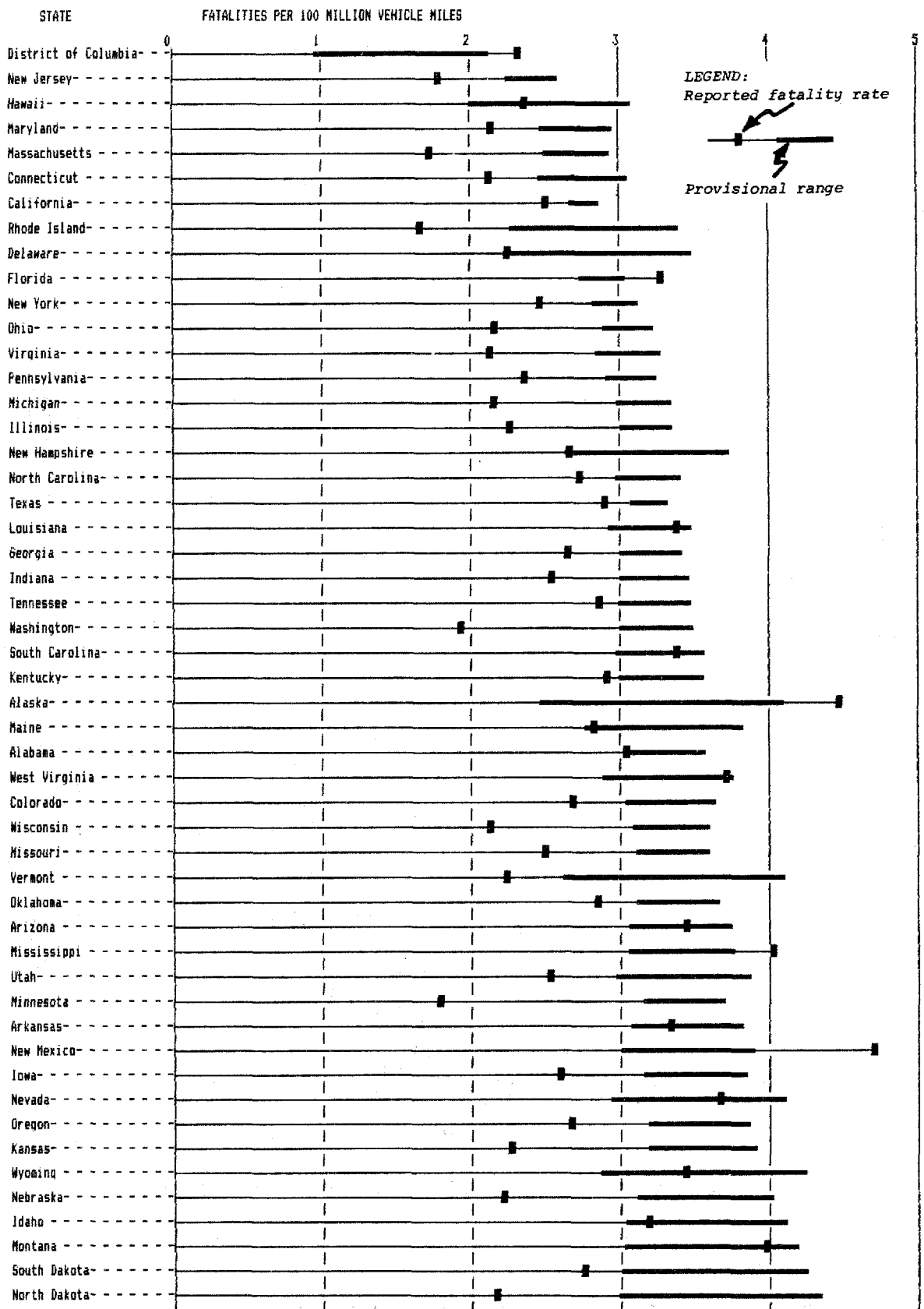
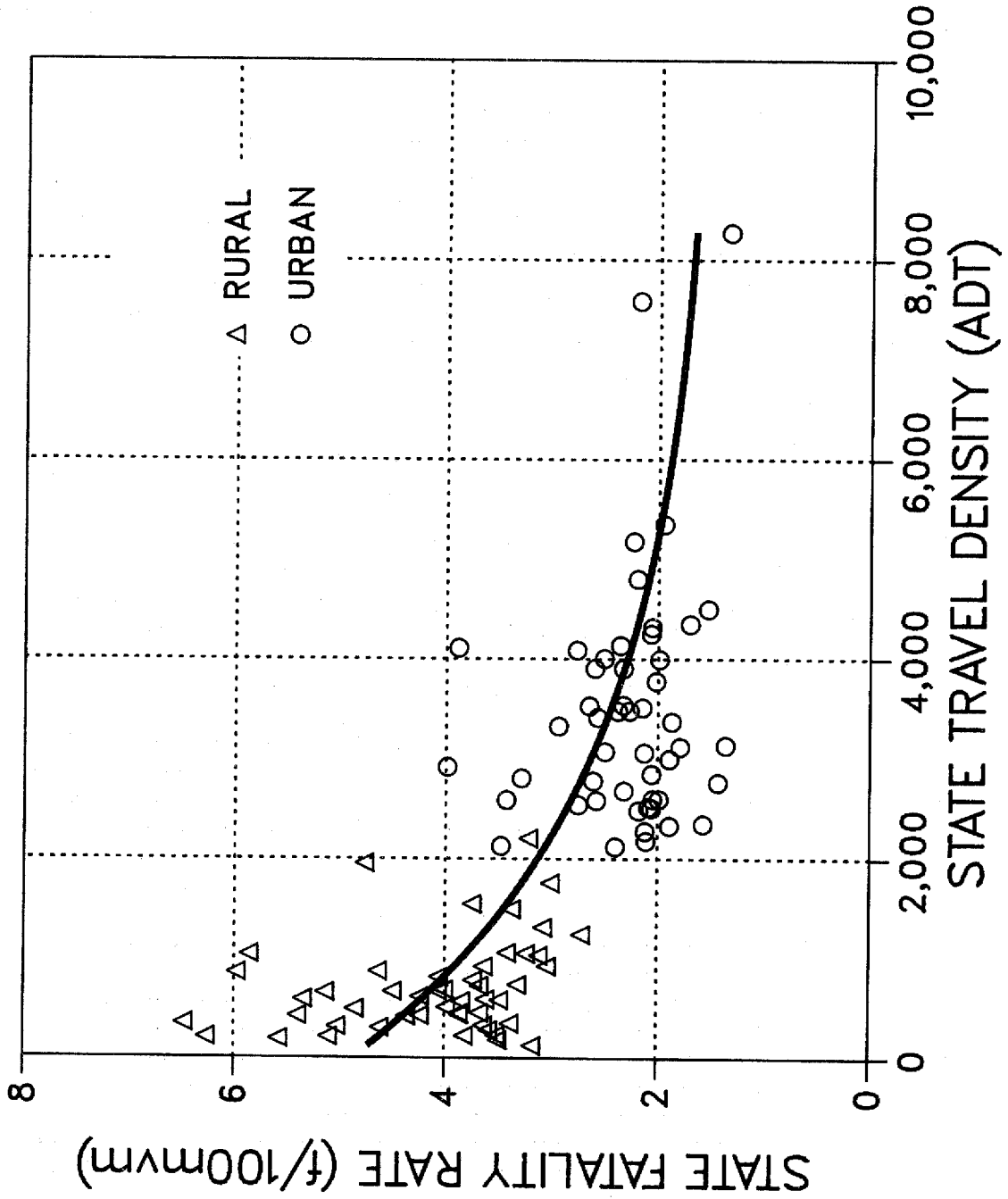
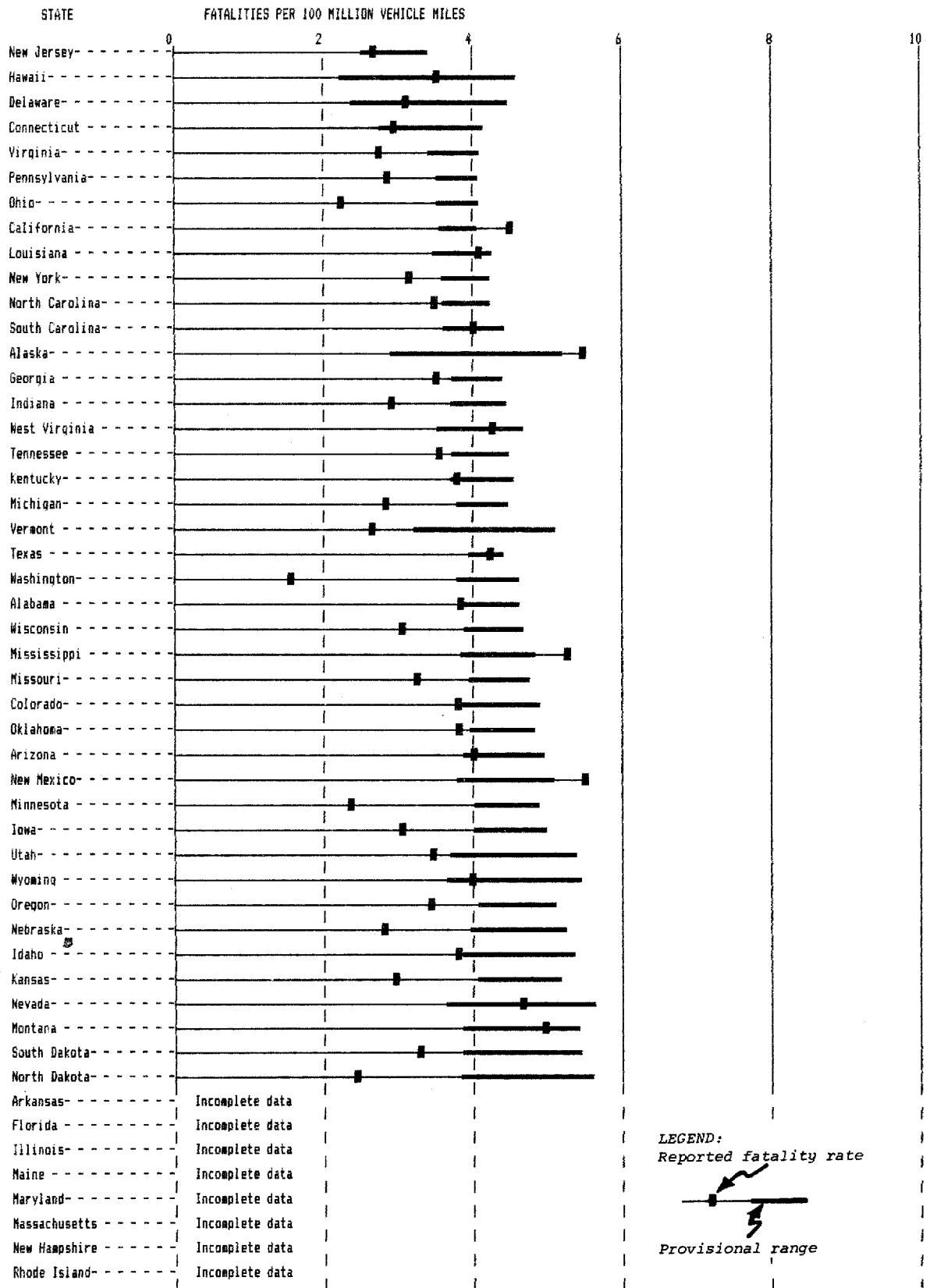


Fig. 7-B1. PROVISIONAL RATE-DENSITY RELATIONSHIP (1979-82)  
RURAL AND URBAN HIGHWAYS



**Figure 7-B2a FATALITY RATE BY STATE--ALL RURAL HIGHWAYS (1983)**





**Figure 7-B2b FATALITY RATE BY STATE—ALL URBAN HIGHWAYS (1983)**

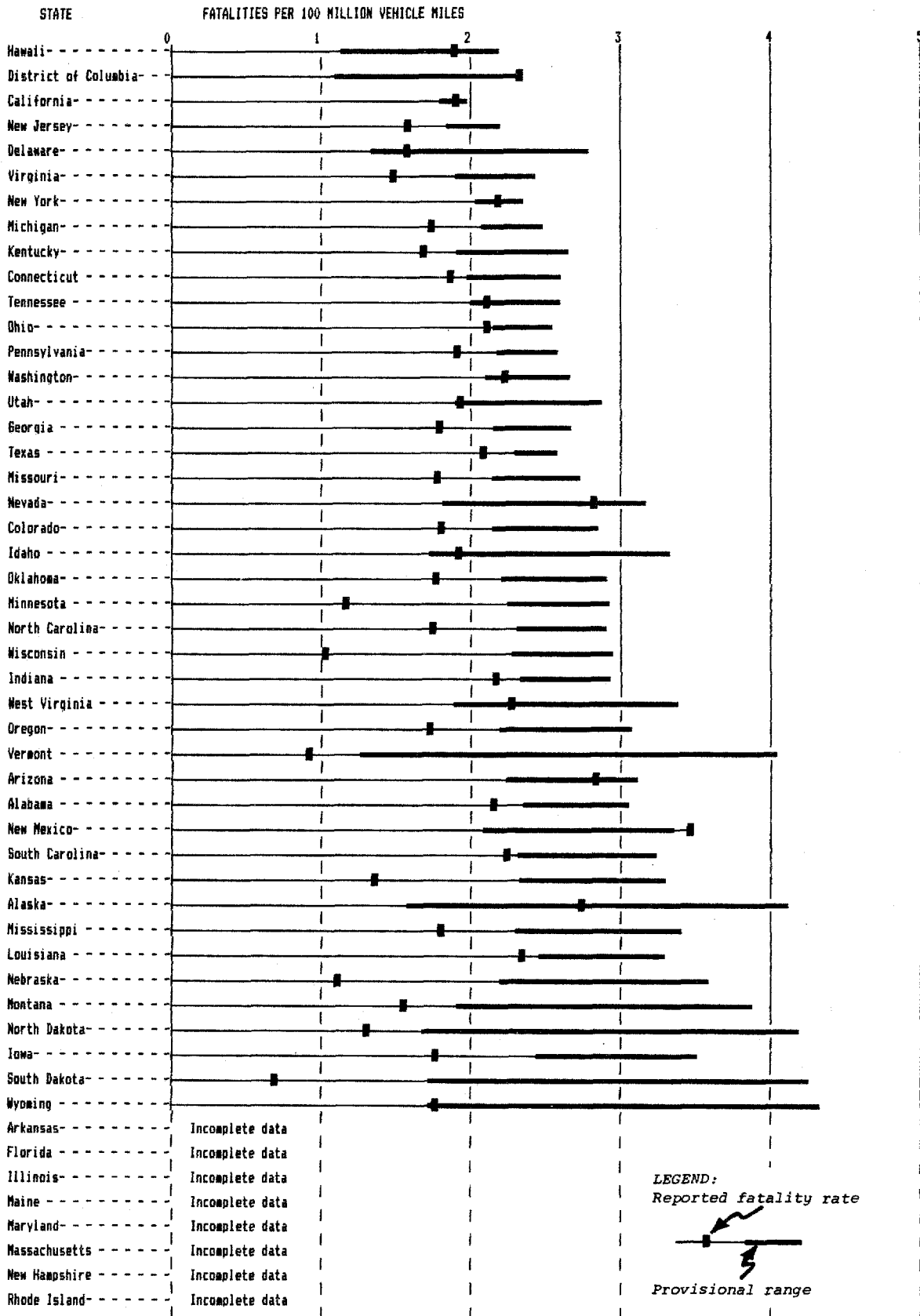
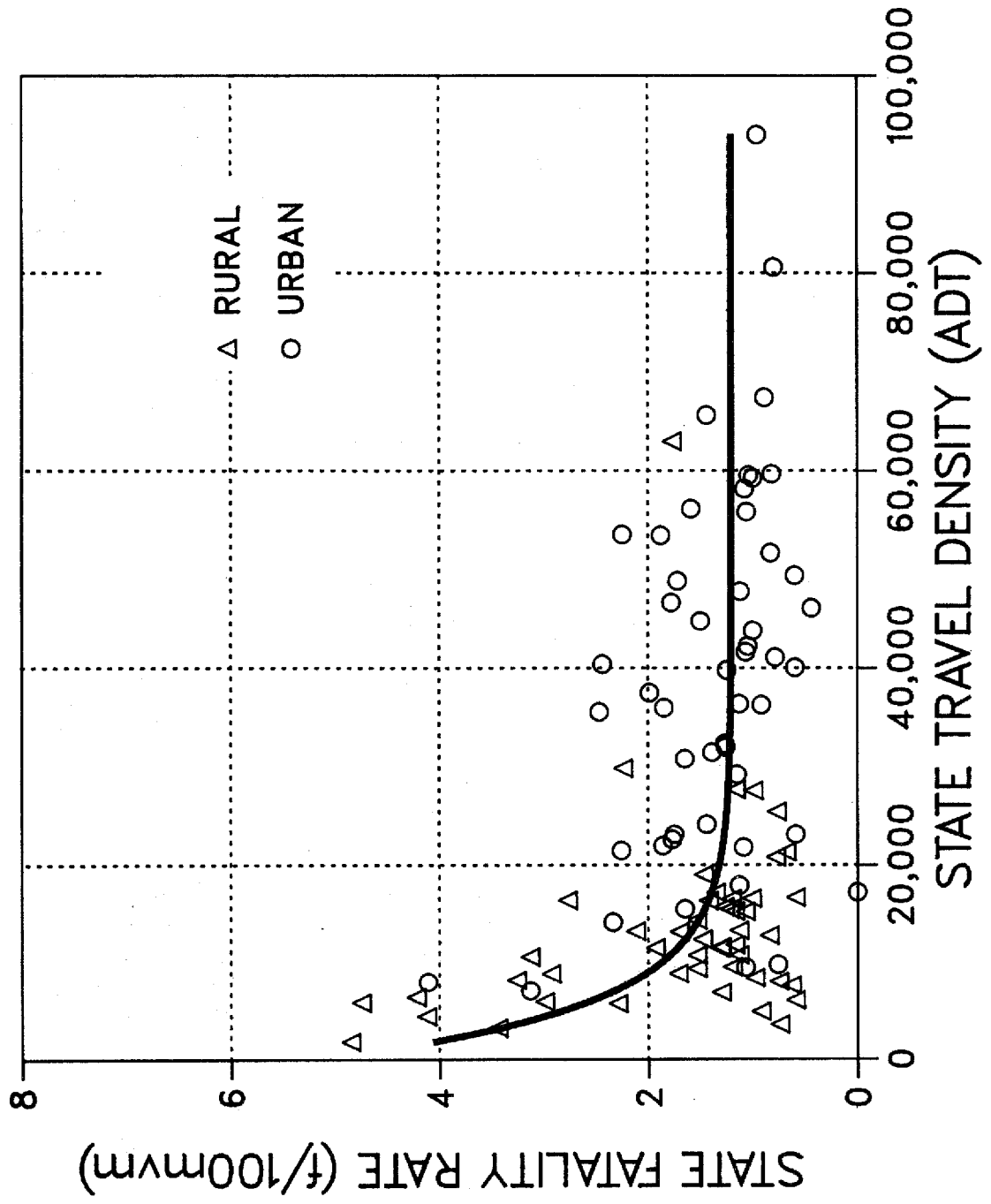
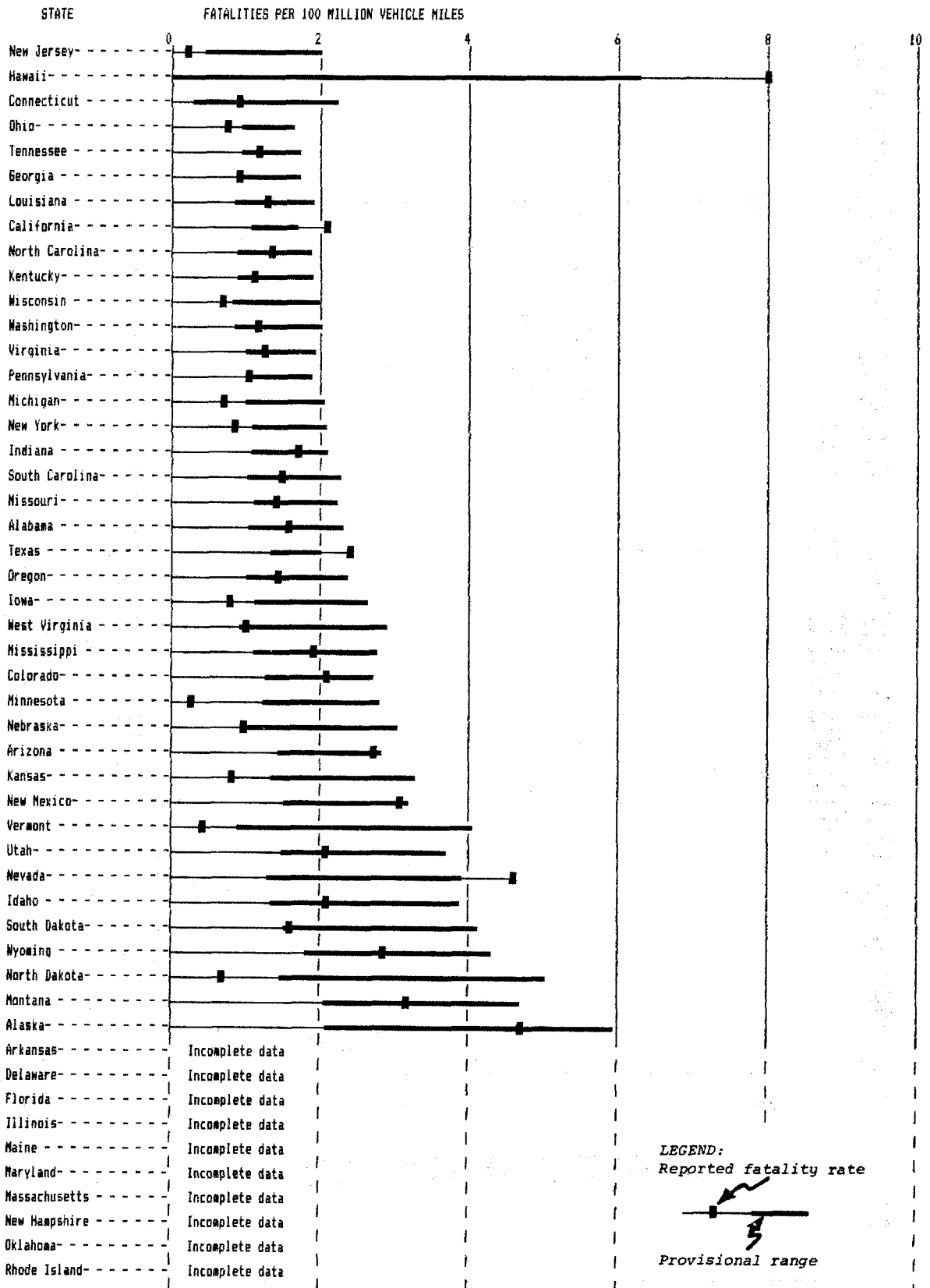


Fig. 7-C1. PROVISIONAL RATE-DENSITY RELATIONSHIP (1979--82)  
INTERSTATE SYSTEM



**Figure 7-C2a FATALITY RATE BY STATE--RURAL INTERSTATE HIGHWAYS (1983)**



**Figure 7-C2b FATALITY RATE BY STATE--URBAN INTERSTATE HIGHWAYS (1983)**

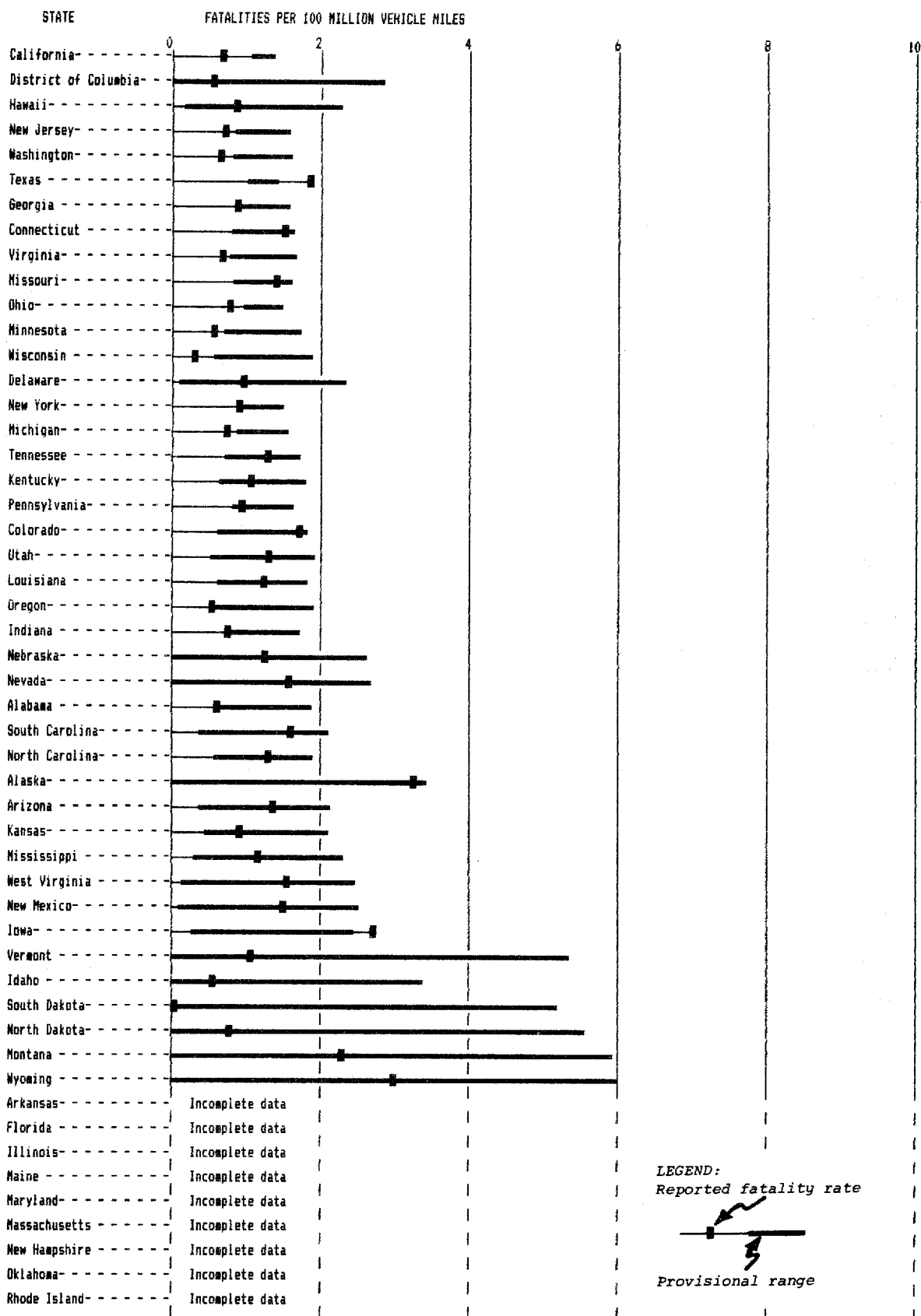
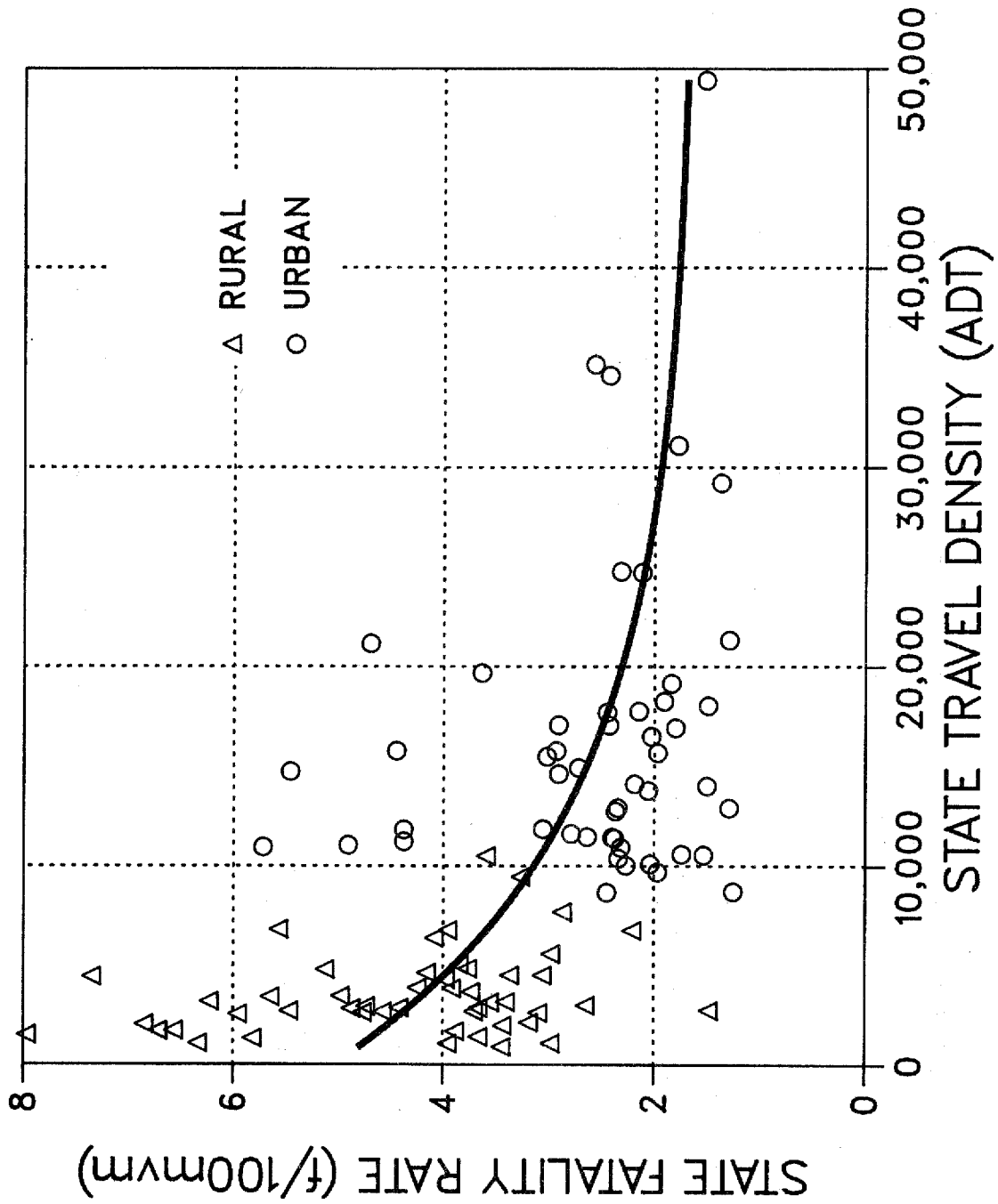
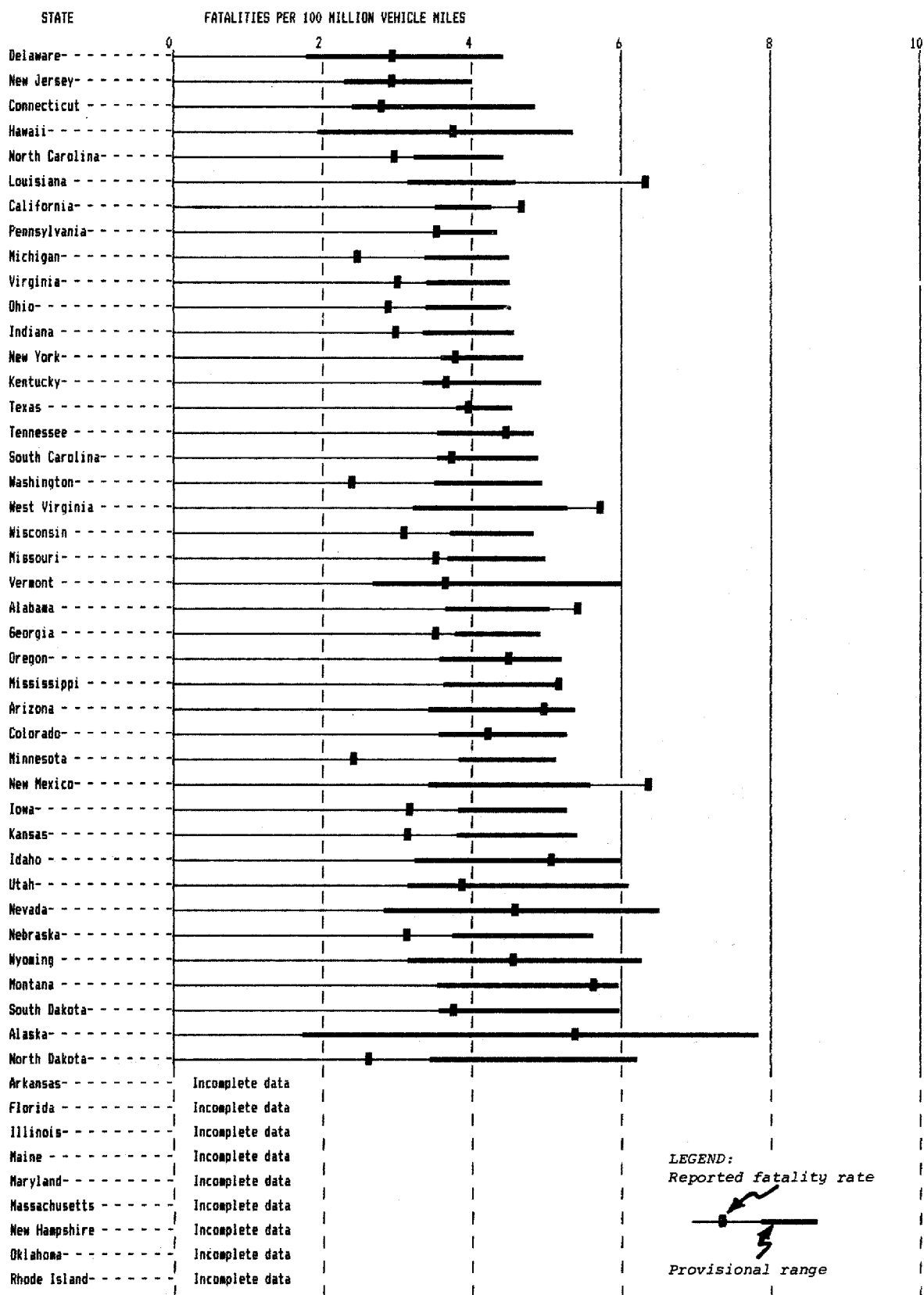


Fig. 7-D1. PROVISIONAL RATE-DENSITY RELATIONSHIP (1979-82)  
OTHER FEDERAL-AID PRIMARY HIGHWAYS



**Figure 7-D2a FATALITY RATES BY STATES—OTHER RURAL  
FEDERAL-AID PRIMARY HIGHWAYS (1983)**



**Figure 7-D2b FATALITY RATES BY STATE--OTHER URBAN  
FEDERAL-AID PRIMARY HIGHWAYS (1983)**

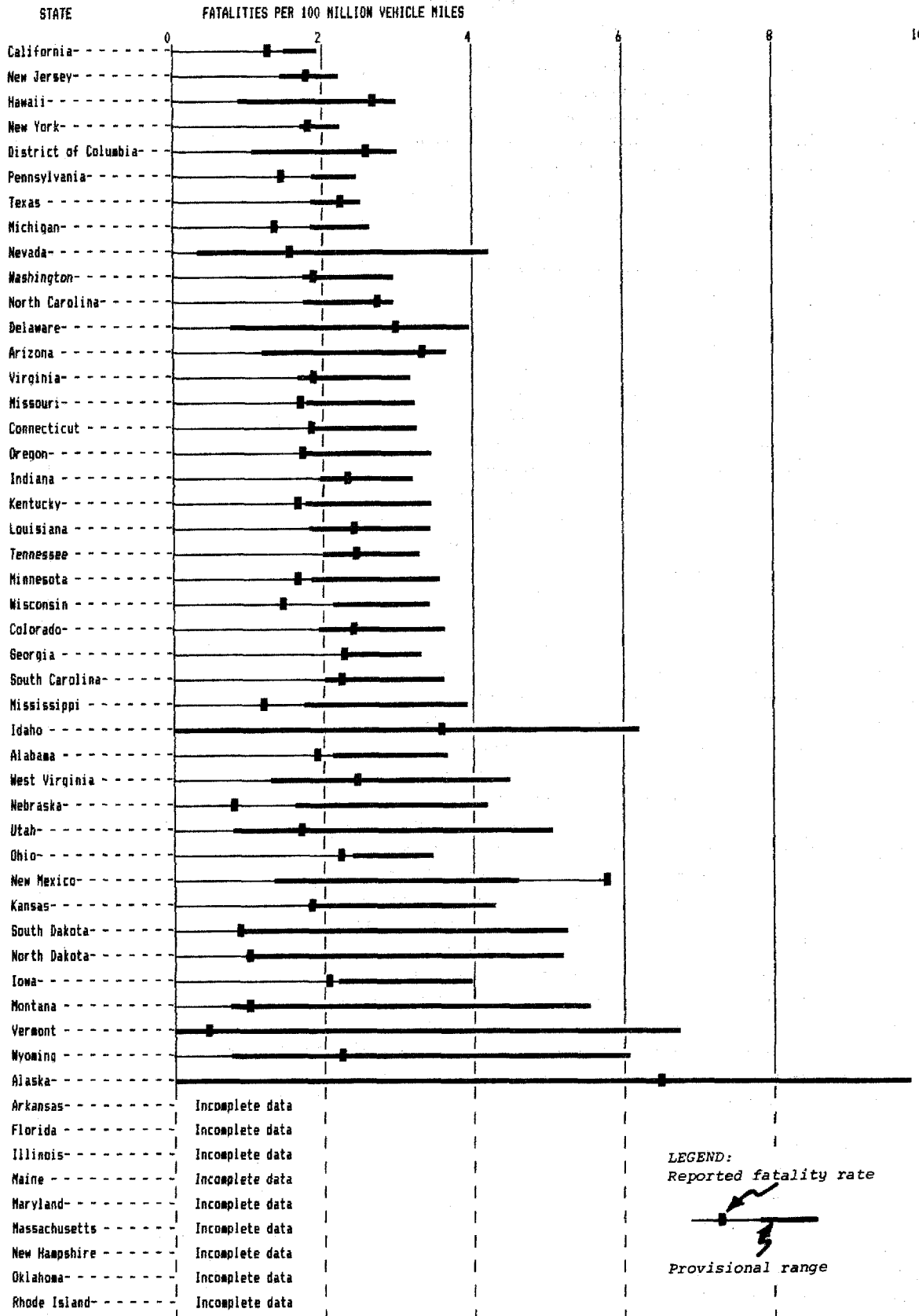
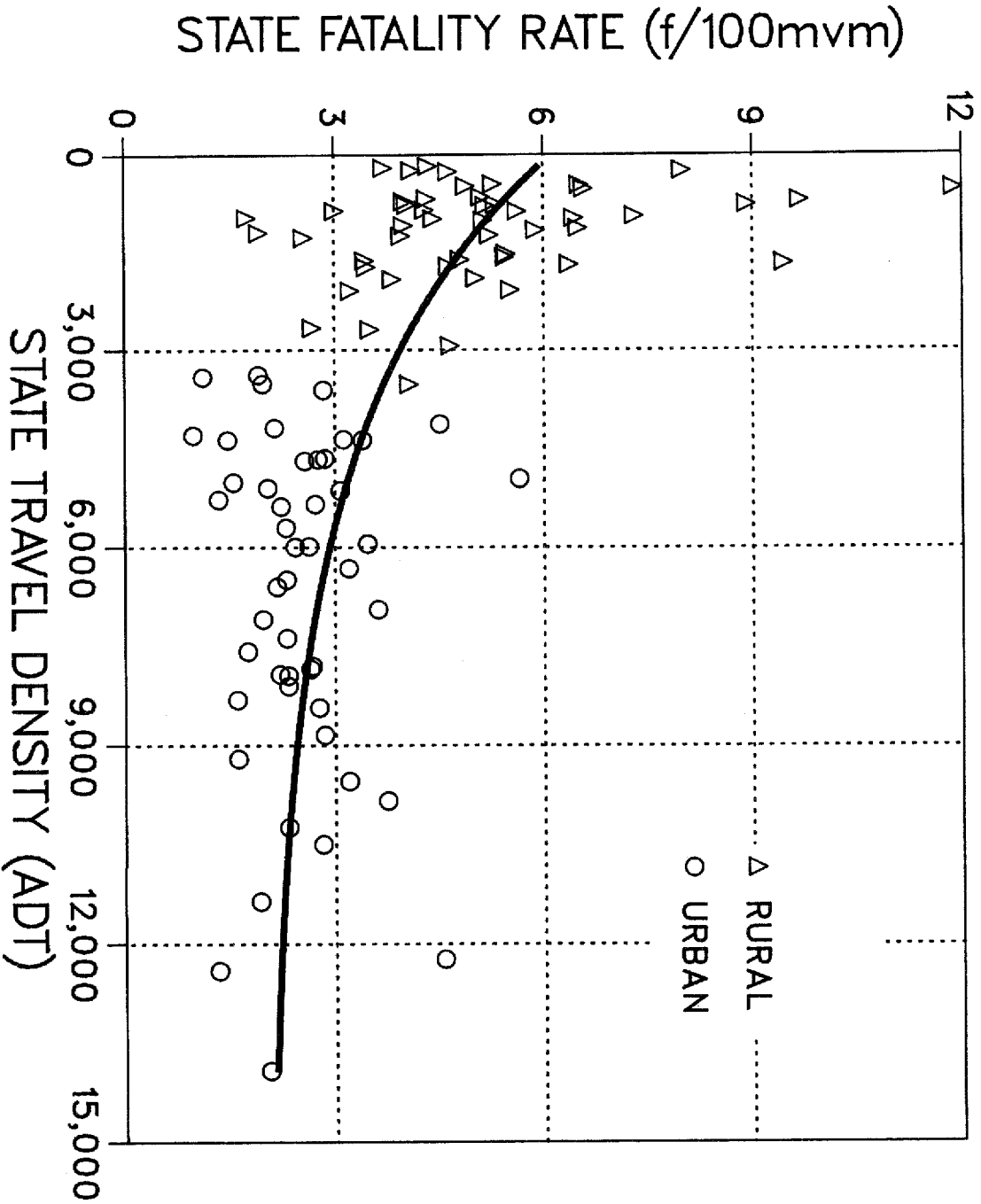
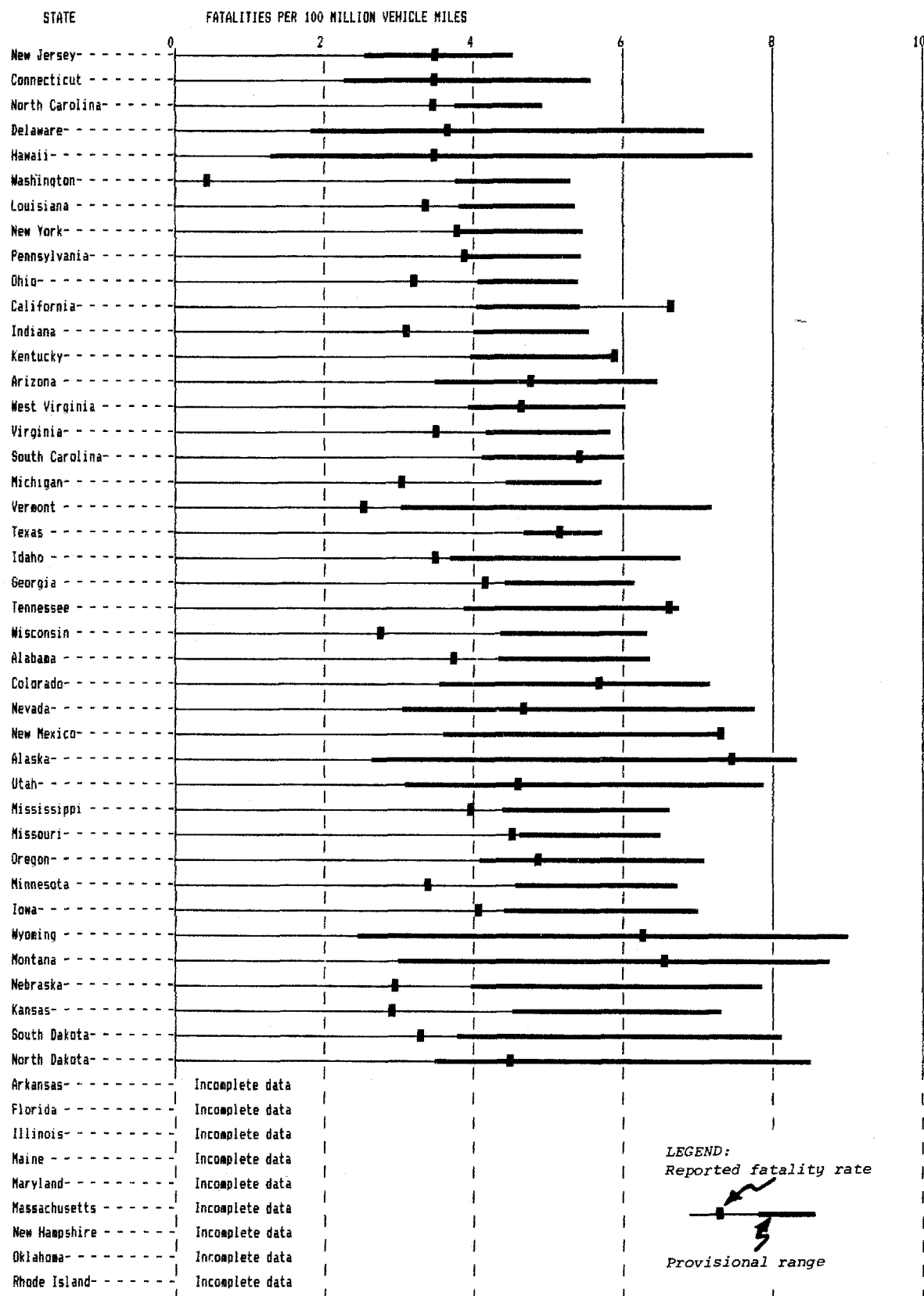


Fig. 7-E1. PROVISIONAL RATE-DENSITY RELATIONSHIP (1979-82)  
FEDERAL-AID SECONDARY AND URBAN SYSTEMS

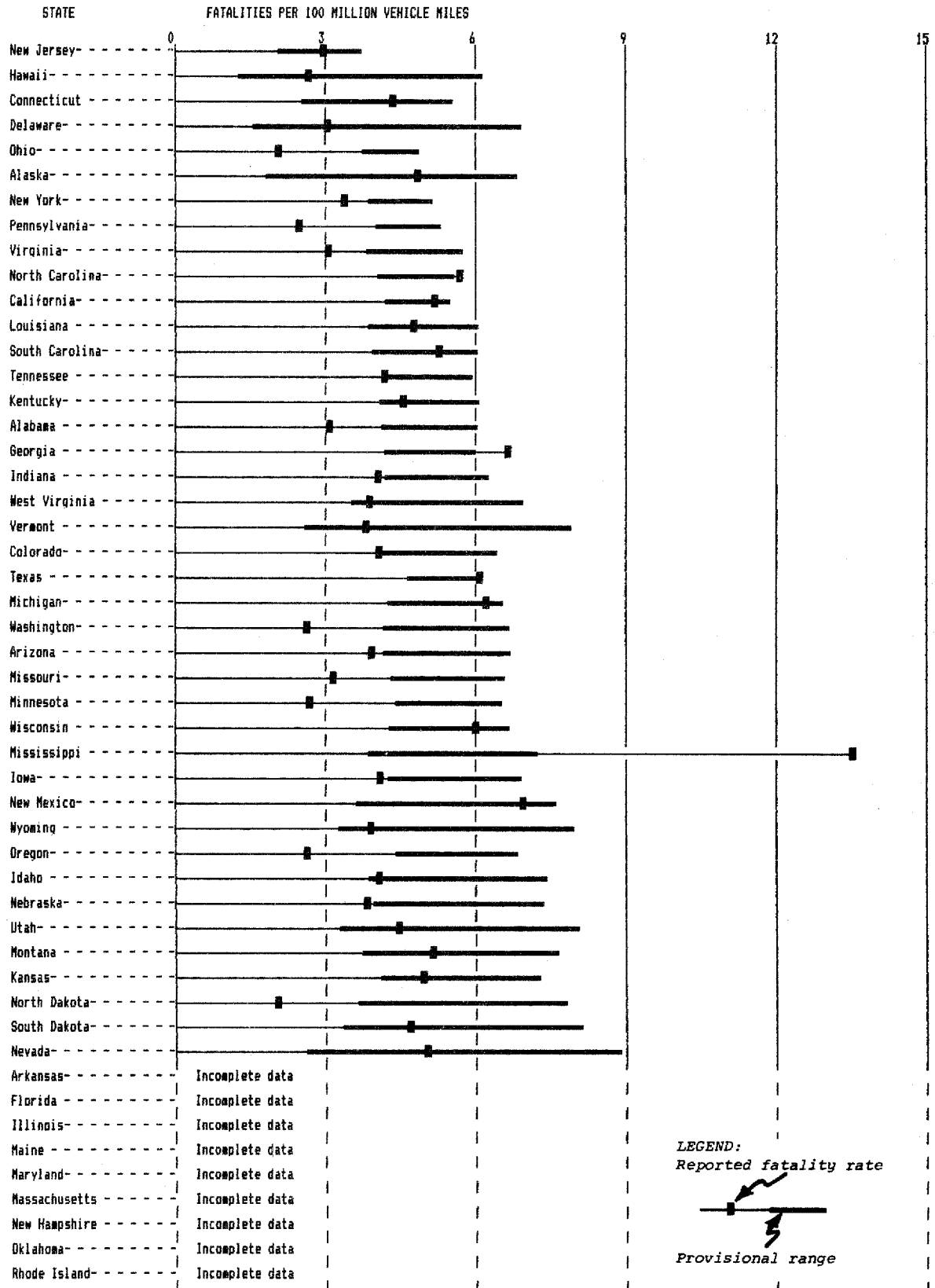




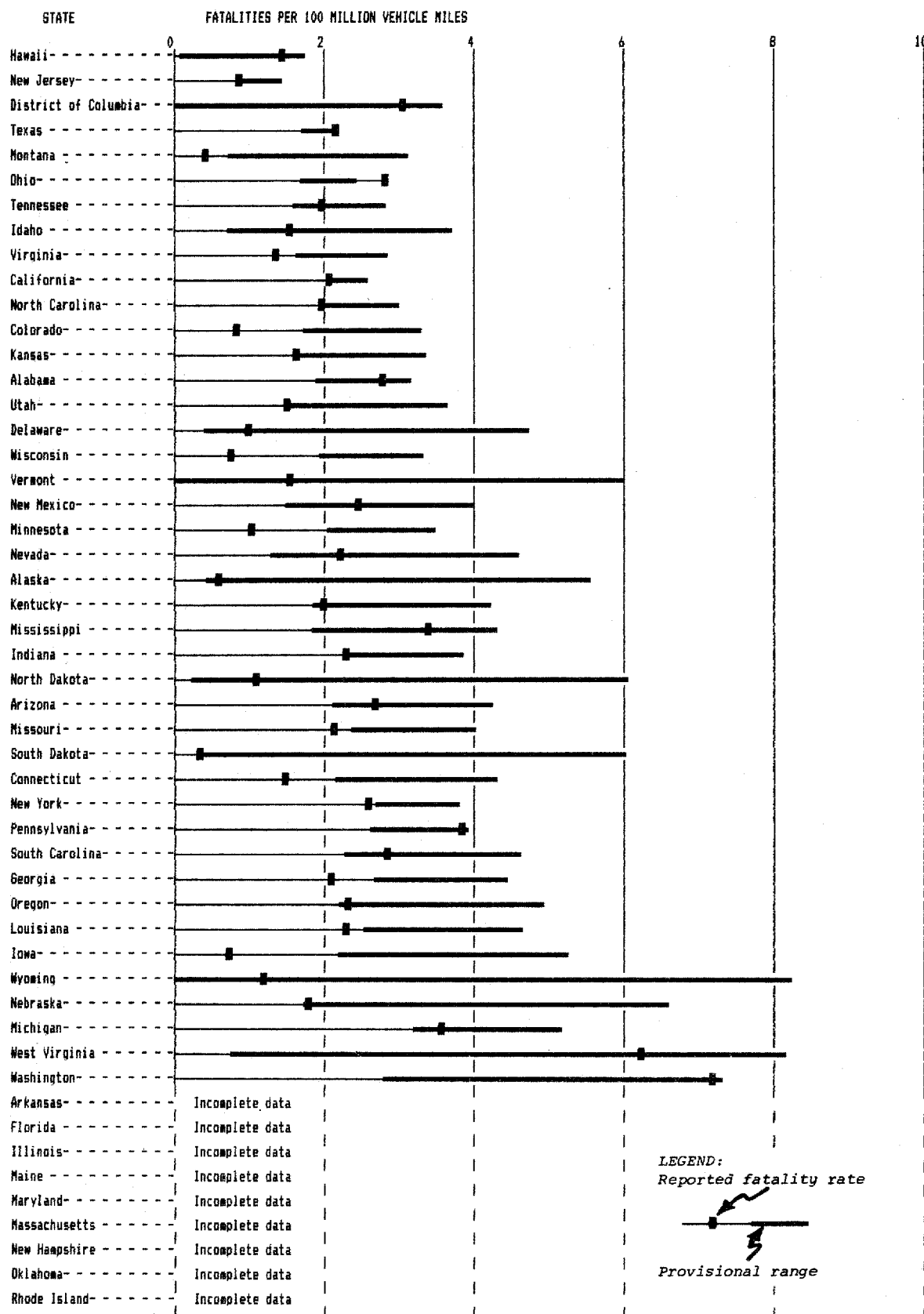
**Figure 7-E2a FATALITY RATE BY STATE--FEDERAL-AID SECONDARY HIGHWAYS (1983)**



**Figure 7-F2a FATALITY RATE BY STATE—RURAL NON-FEDERAL-AID HIGHWAYS (1983)**



**Figure 7-F2b FATALITY RATE BY STATE—URBAN NON-FEDERAL-AID HIGHWAYS (1983)**



SECTION VI—STATE FATALITY RATE TRENDS

It is sometimes more useful to know the trend within a State than to know how that State compares with others. Figure 8 illustrates changes in State rates over the 5-year period from 1979 through 1983. The format of the graphs is similar to that in Figure 7-A2. The provisional range for each of the 5 years is based on the provisional rate-density curve shown in Figure 7-A1.

Figure 8 is designed to show, within each State, the pattern of observed rates over the 5-year period and the relationship of observed rates to provisional ranges. Because of differences in the magnitude of individual State rates, not all States are shown at the same scale. It is not intended that Figure 8 be used to compare the magnitude of fatality rates in different States.

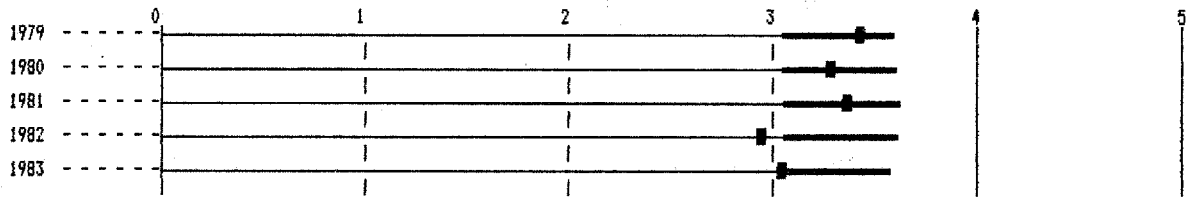
While some States like Illinois and Minnesota demonstrate steadily decreasing fatality rates throughout the 5-year period, Arkansas reports little improvement since 1979. In the majority of States, the rate reported for 1983 is substantially lower than the rates for preceding years. Only a few States have a 1983 fatality rate above the provisional range.

```
*****
*
*           Figure 8 may be used to answer questions such as:           *
*
*           1. Are the fatality rates in a State improving?               *
*
*           See pages 71-81. Most States show steadily                   *
*           improving fatality rates. A few do not.                       *
*
*           2. How have fatality rates in a particular State              *
*           compared with those in the rest of the United                 *
*           States over the past five years?                               *
*
*           See pages 71-81. For any year in a selected                   *
*           State, a fatality rate to the left of the                     *
*           provisional range indicates that the State                     *
*           fatality rate is significantly below the                       *
*           1979-82 national experience for States with                   *
*           similar travel density. A fatality rate to                     *
*           the right of the provisional range is                          *
*           significantly above such national experience.                   *
*
*
*****
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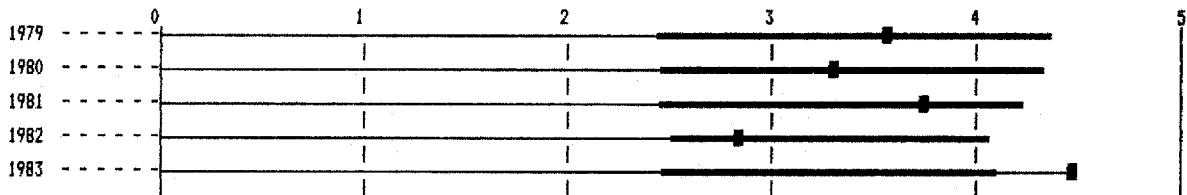
## Figure 8 STATE FATALITY RATES (1979-1983)

(Fatalities per 100 million vehicle-miles)

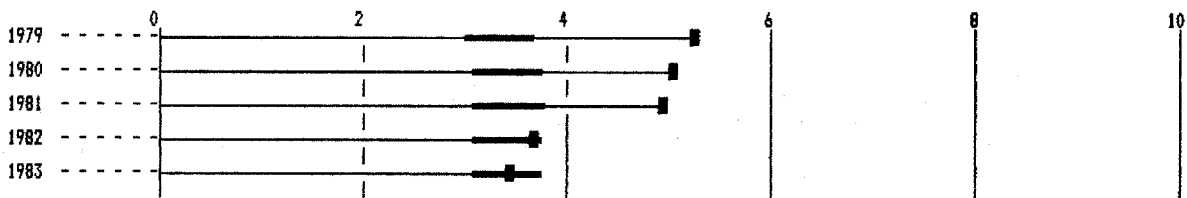
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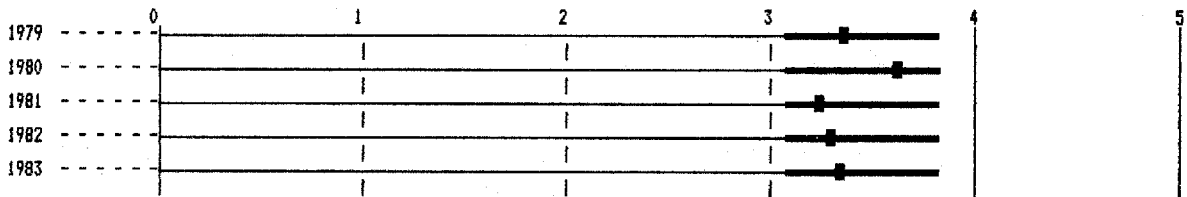
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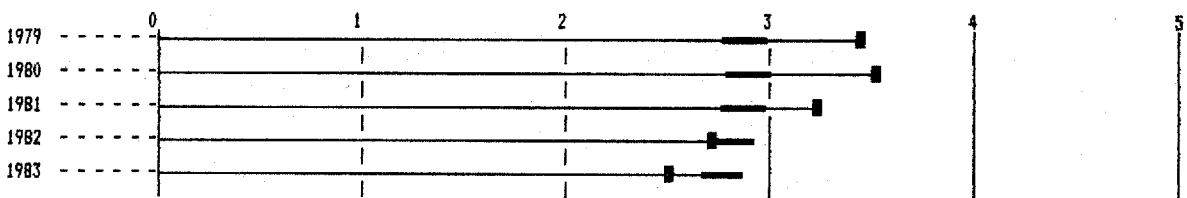
### ARIZONA



### ARKANSAS

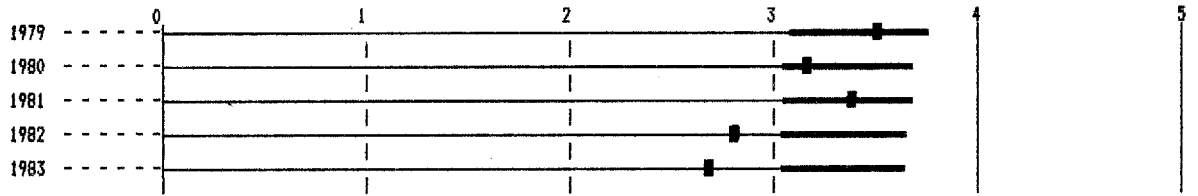


### CALIFORNIA

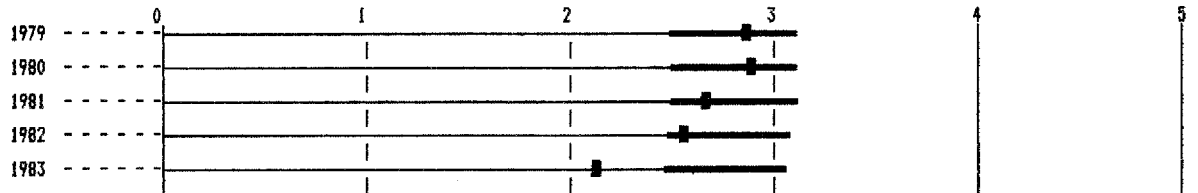


**Figure 8 (continued) STATE FATALITY RATES (1979-1983)**

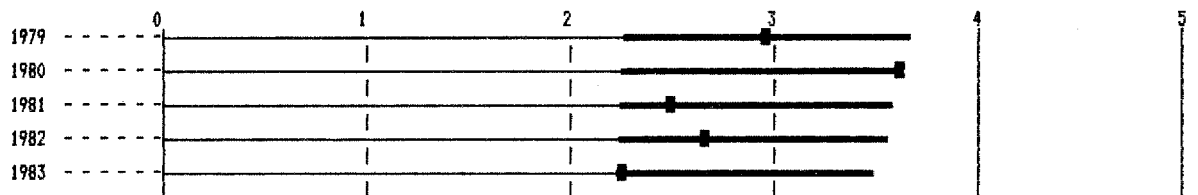
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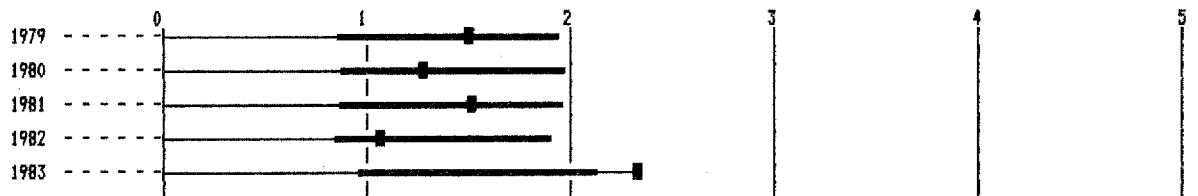
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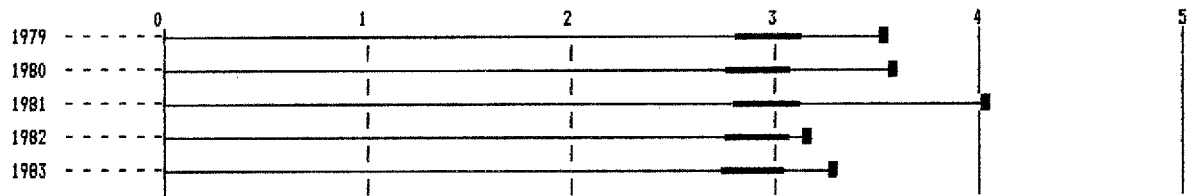
**DELAWARE**



**DISTRICT OF COLUMBIA**

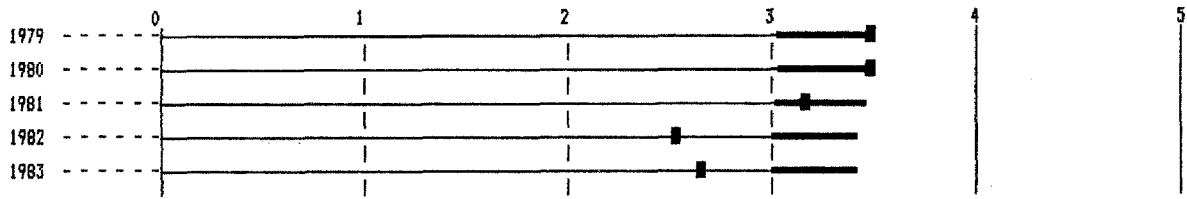


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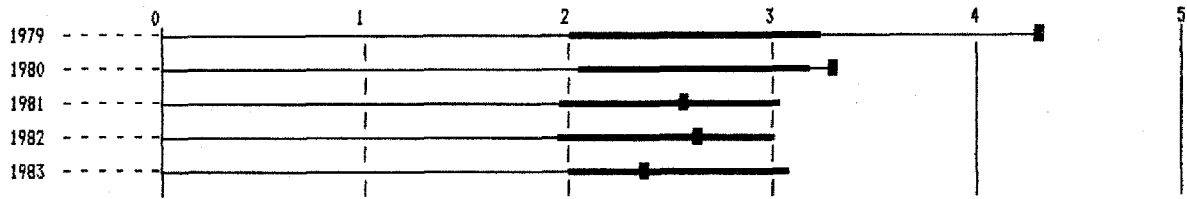


**Figure 8 (continued) STATE FATALITY RATES (1979-1983)**

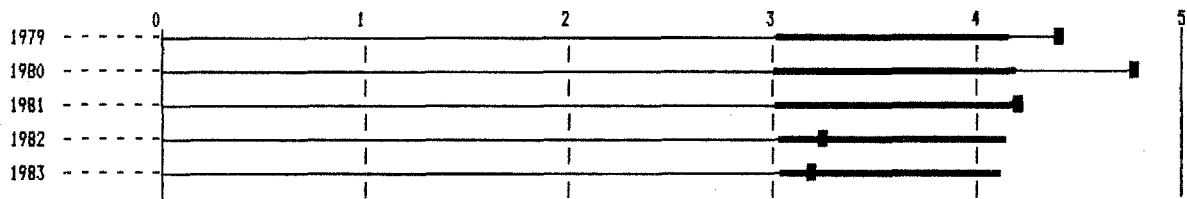
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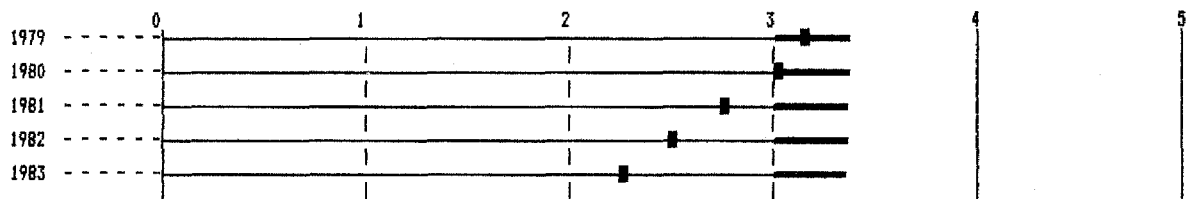
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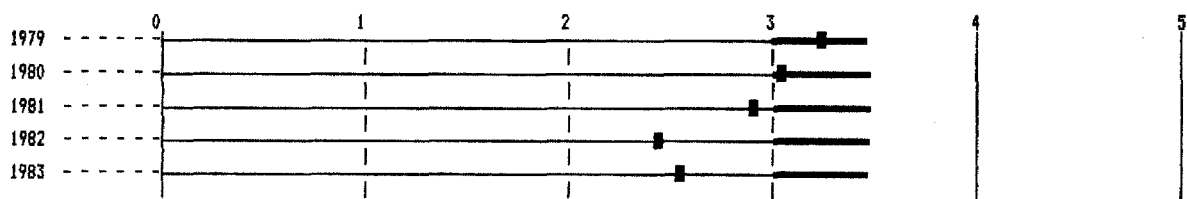
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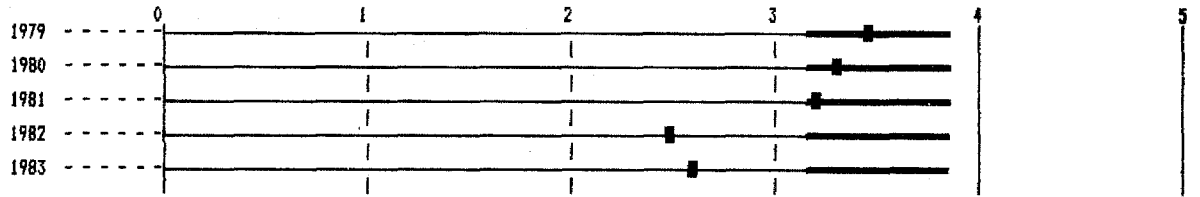


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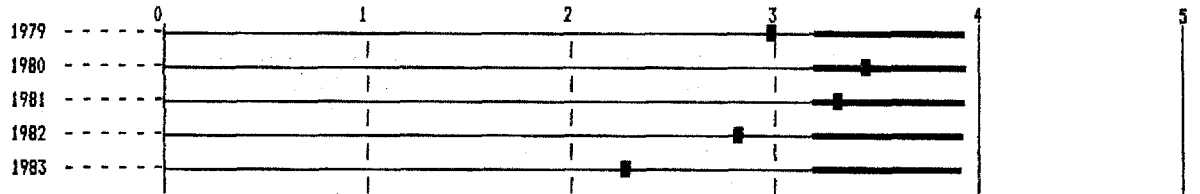


**Figure 8 (continued) STATE FATALITY RATES (1979-1983)**

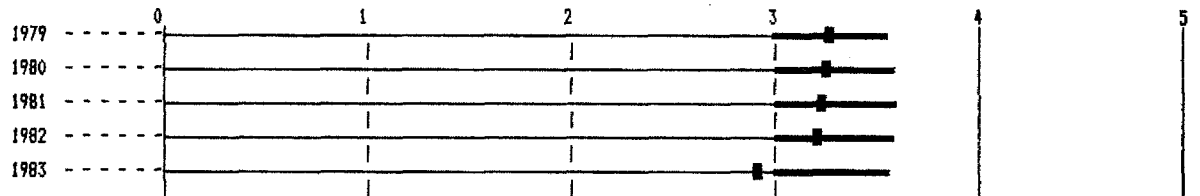
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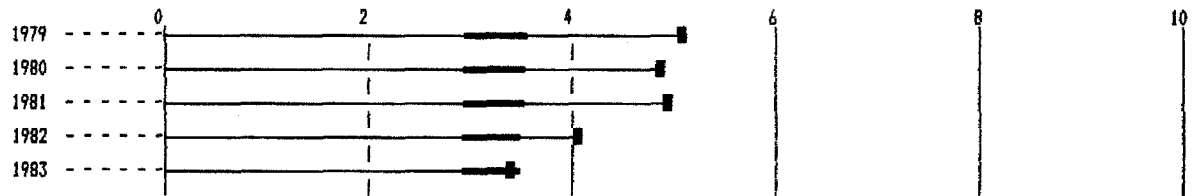
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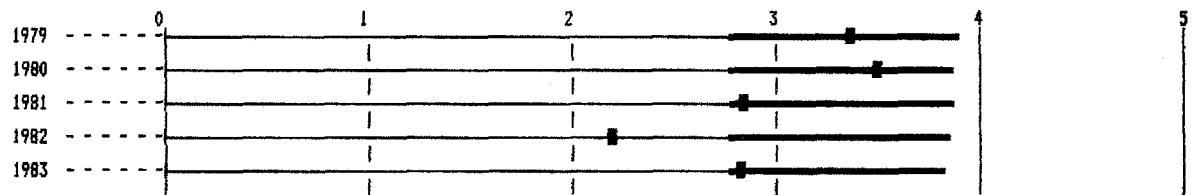
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**LOUISIANA**



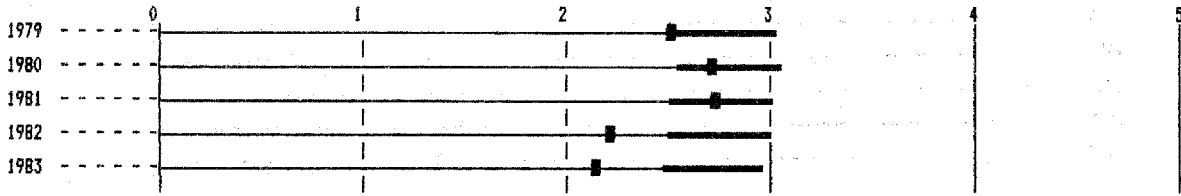
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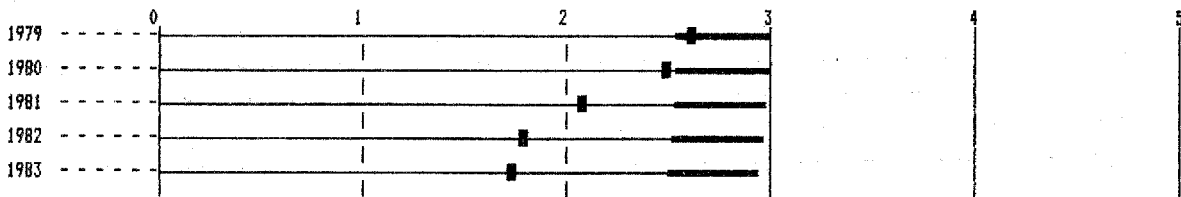


**Figure 8 (continued) STATE FATALITY RATES (1979-1983)**

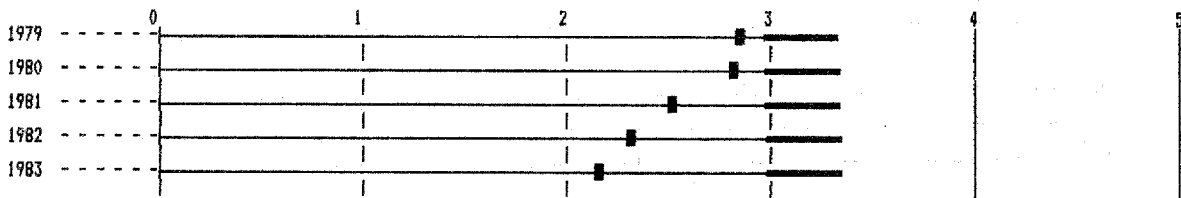
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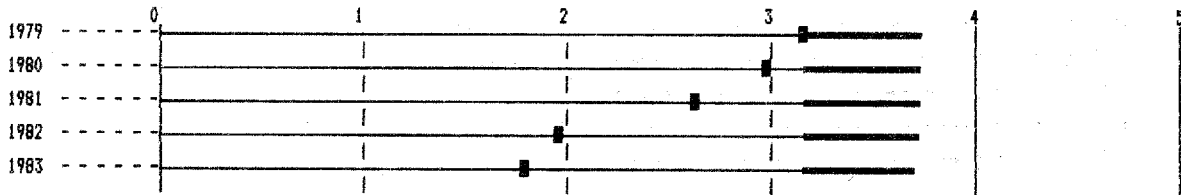
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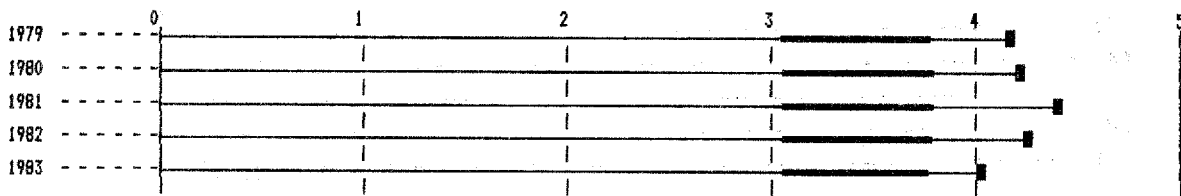
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**MINNESOTA**

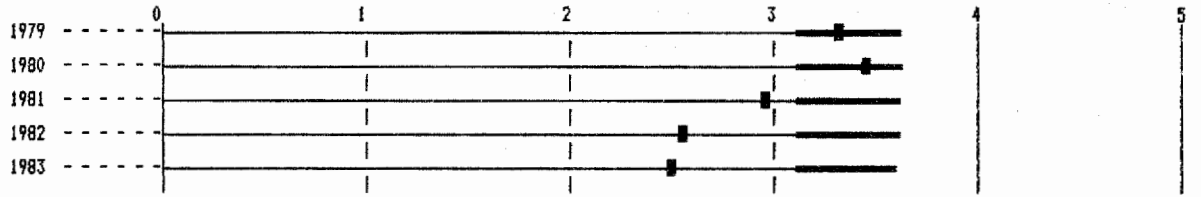


**MISSISSIPPI**

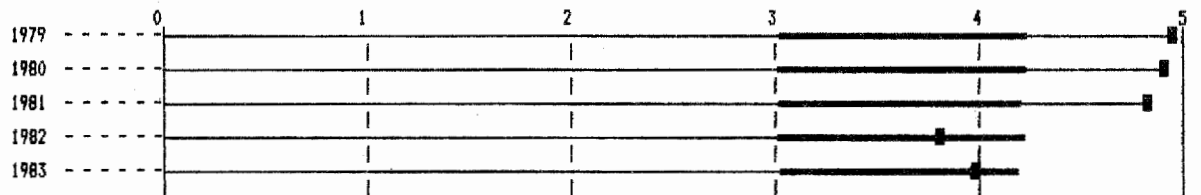


**Figure 8 (continued) STATE FATALITY RATES (1979-1983)**

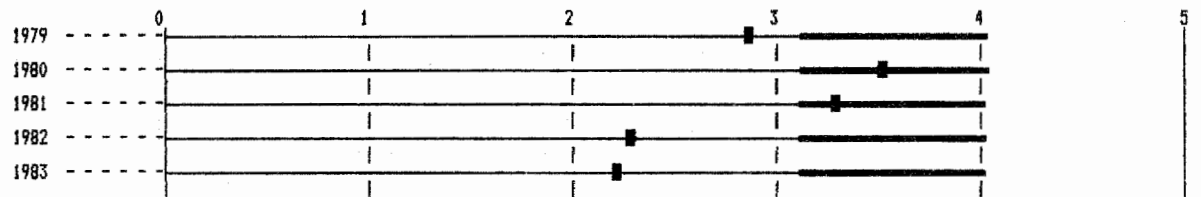
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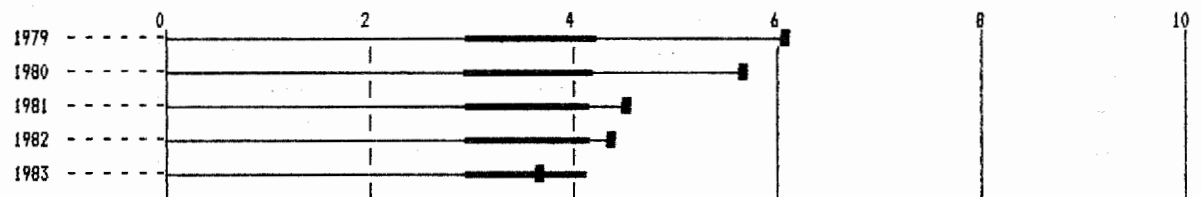
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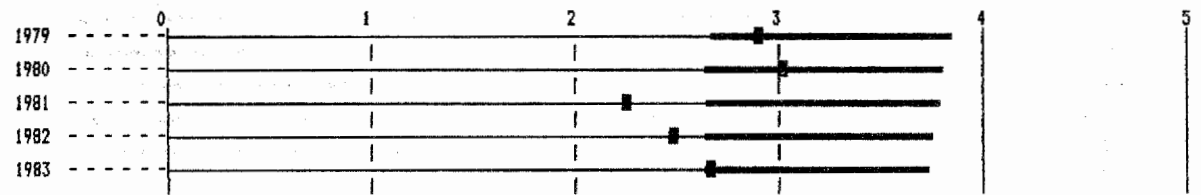
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**NEVADA**

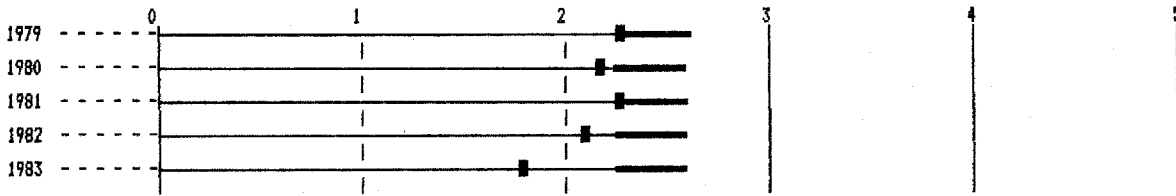


**NEW HAMPSHIRE**

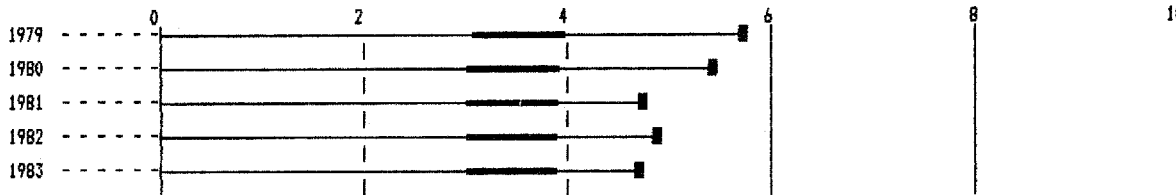


**Figure 8 (continued) STATE FATALITY RATES (1979-1983)**

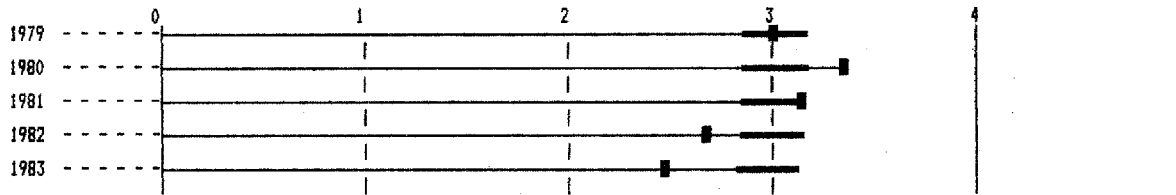
**NEW JERSEY**



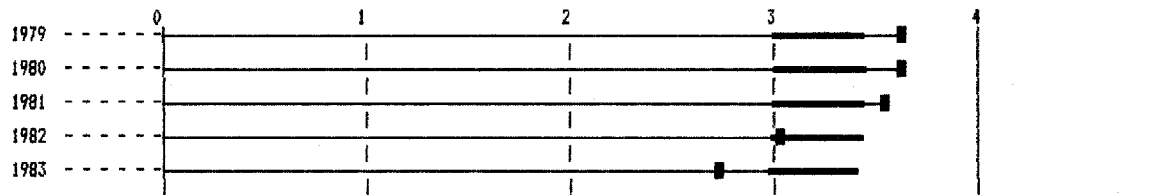
**NEW MEXICO**



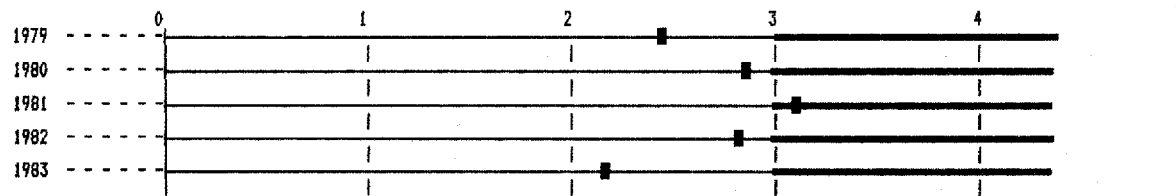
**NEW YORK**



**NORTH CAROLINA**

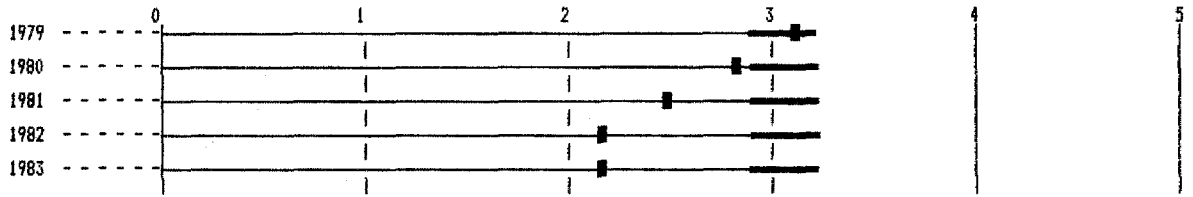


**NORTH DAKOTA**

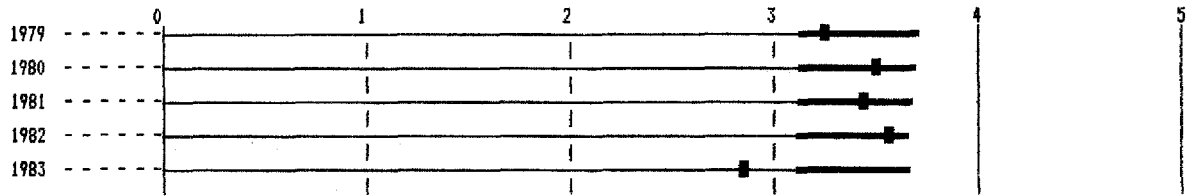


**Figure 8 (continued) STATE FATALITY RATES (1979-1983)**

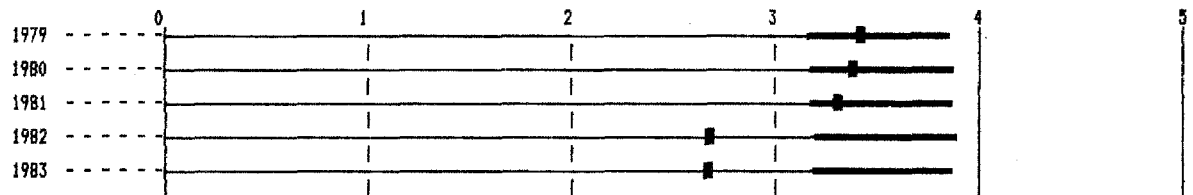
**OHIO**



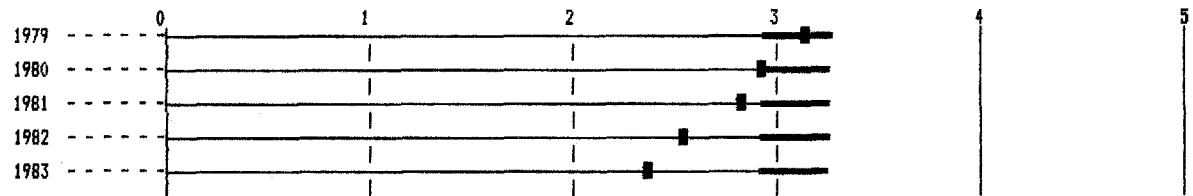
**OKLAHOMA**



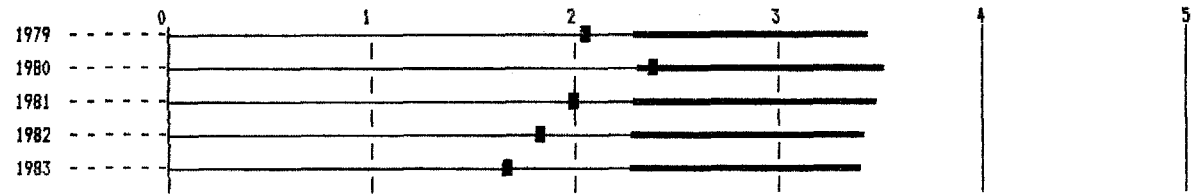
**OREGON**



**PENNSYLVANIA**

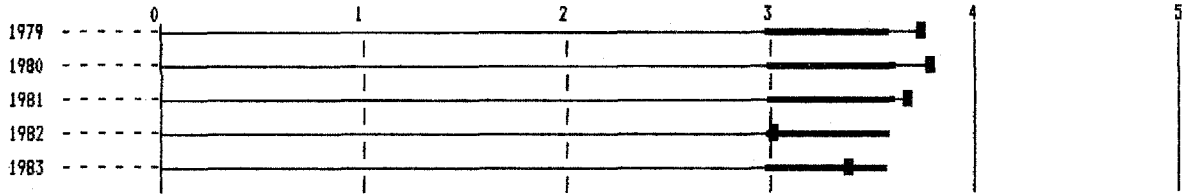


**RHODE ISLAND**

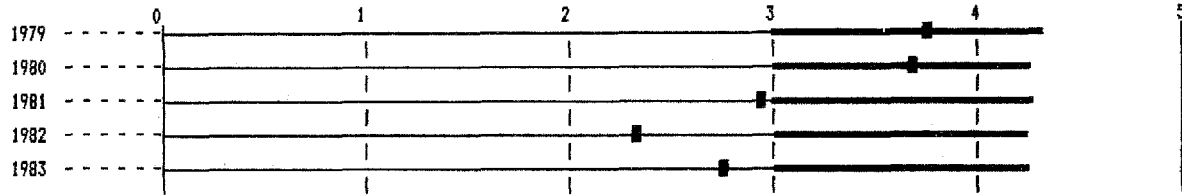


**Figure 8 (continued) STATE FATALITY RATES (1979-1983)**

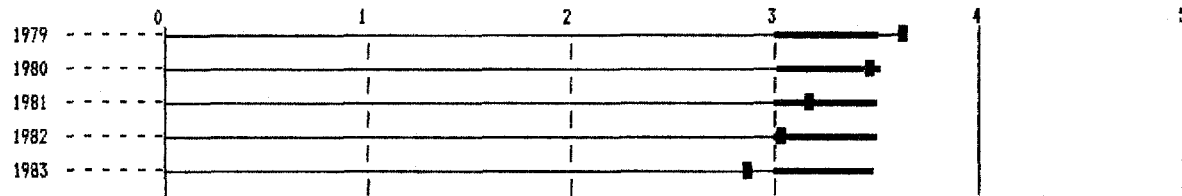
**SOUTH CAROLINA**



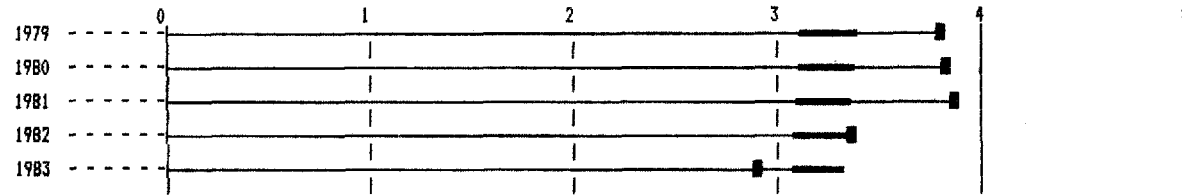
**SOUTH DAKOTA**



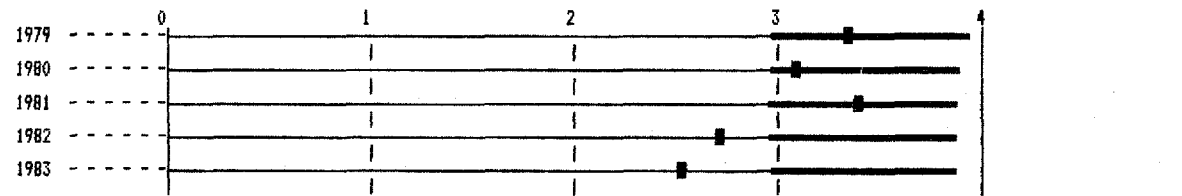
**TENNESSEE**



**TEXAS**

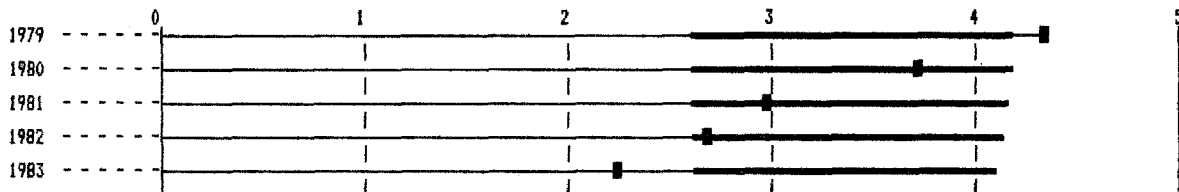


**UTAH**

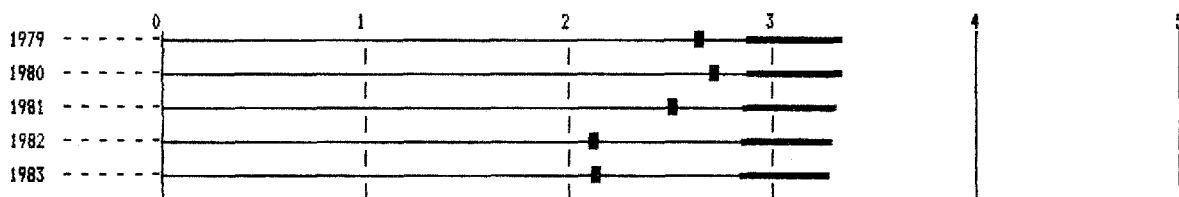


**Figure 8 (continued) STATE FATALITY RATES (1979-1983)**

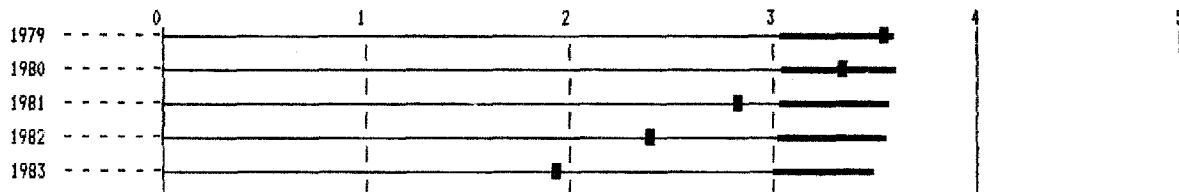
**VERMONT**



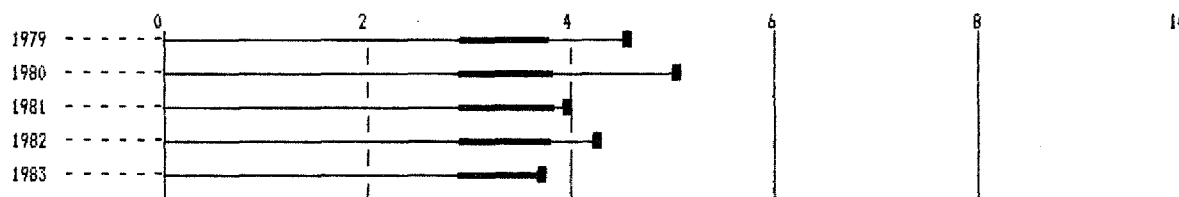
**VIRGINIA**



**WASHINGTON**



**WEST VIRGINIA**



**WISCONSIN**

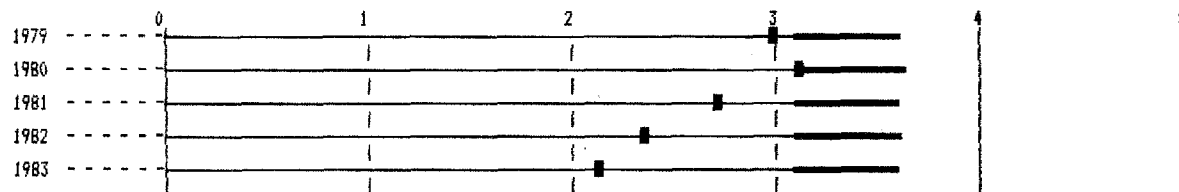
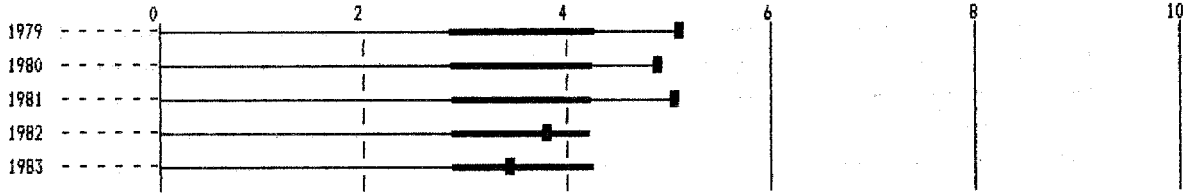
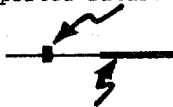


Figure 8 (continued) STATE FATALITY RATES (1979-1983)

WYOMING



LEGEND:  
Reported fatality rate  
  
Provisional range

## SECTION VII—SUMMARY

The data presented in this report are intended for use in the evaluation of the highway safety performance of the States. The data were submitted by the States through the Highway Performance Monitoring System operated by the Federal Highway Administration.

A few States were unable to submit the data requested in time for inclusion in this compilation.

Analysis of the travel and accident data which have been presented is beyond the scope of this report.



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Fee, Julie Anna, et al., "Interstate System Accident Research Study 1," Federal Highway Administration, U.S. Department of Transportation, October 1970, pp. I-14, 15, 42.

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