



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

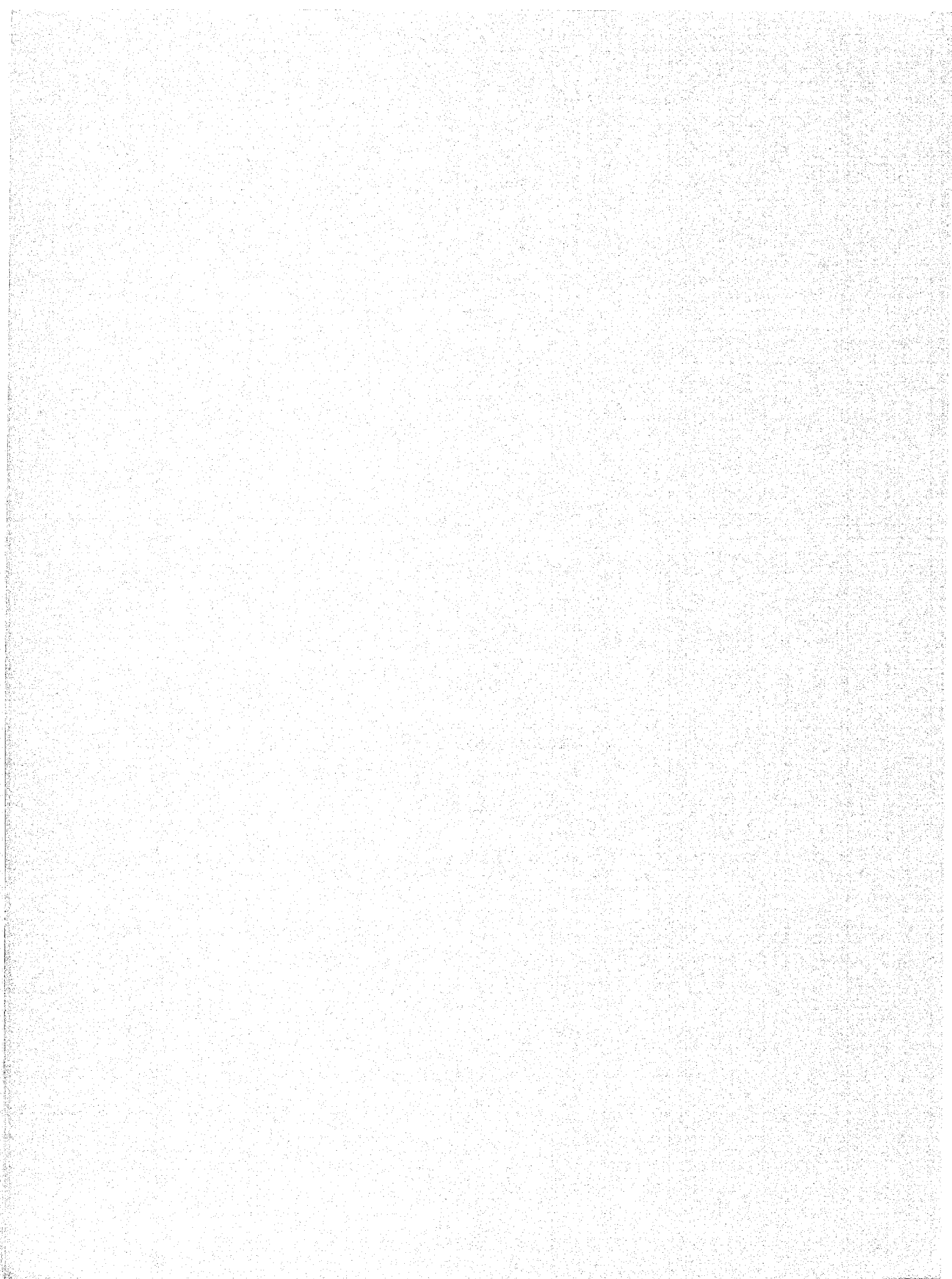
Highway Safety Performance—1982

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

Offices of Highway Safety
and Highway Planning

December 1983

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.

The report contains 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 Safety. 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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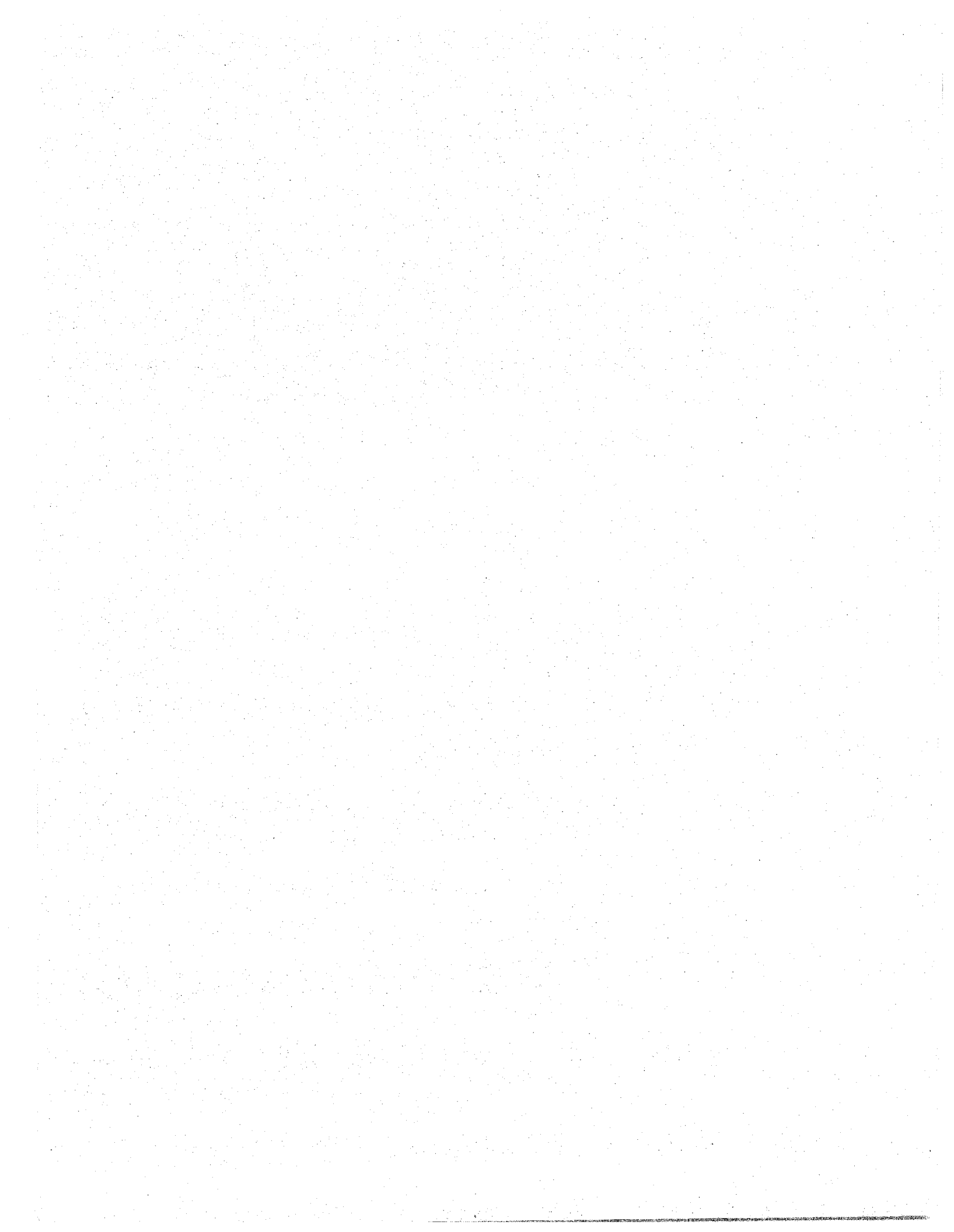
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HIGHWAY SAFETY PERFORMANCE - 1982

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 highways 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 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.^{1/} 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

^{1/} 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 in 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 1982

A noteworthy feature of the traffic accident statistics for 1982 is the striking decrease in the number of fatalities reported by the States. The decrease—from over 49,000 traffic fatalities in 1981 to fewer than 44,000 in 1982—is the second largest 1-year improvement since World War II. The only larger decrease occurred during the 1974 fuel crisis.

Table 1 presents 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 summarizes travel and accident data by State. In addition to data which are presented in greater detail in Tables 3 through 6, these tables include 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 - 1982

HIGHWAY SYSTEM	HIGHWAY MILES 2/	VEHICLE MILES (MILLIONS) 2/	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS		NONFATAL INJURY ACCIDENTS 4/		FATALITIES		NONFATALLY INJURED PERSONS 4/	
				NUMBER	RATE 3/	NUMBER	RATE 3/	NUMBER	RATE 3/	NUMBER	RATE 3/
INTERSTATE (ARTERIAL)											
RURAL	32,879	142,186	11,848	1,861	1.31	36,140	25.42	2,175	1.53	58,191	40.93
URBAN	9,581	175,459	90,173	1,704	0.97	81,180	46.27	1,878	1.07	121,450	69.22
TOTAL	42,460	317,645	20,496	3,565	1.12	117,320	35.93	4,053	1.28	179,641	55.55
OTHER FEDERAL-AID PRIMARY (ARTERIAL)											
RURAL	225,111	255,295	3,235	8,632	3.24	193,049	72.49	10,236	3.84	323,062	121.32
URBAN	29,648	204,777	18,923	3,497	1.71	232,351	113.47	3,862	1.89	356,383	174.03
TOTAL	255,759	471,073	5,046	12,129	2.57	425,400	90.30	14,098	2.99	679,445	144.23
FEDERAL-AID URBAN											
ARTERIAL	82,053	276,674	9,238	6,577	2.41	502,987	181.80	7,391	2.67	752,137	271.85
COLLECTOR	51,447	64,214	3,419	1,142	1.78	108,805	158.44	1,217	1.90	153,657	239.30
TOTAL (ALL URBAN)	133,500	340,888	6,995	7,819	2.23	611,793	173.47	8,608	2.53	905,804	265.72
FEDERAL-AID SECONDARY (COLLECTOR)											
TOTAL (ALL RURAL)	401,999	145,172	989	5,566	3.83	143,728	95.01	6,291	4.33	229,993	158.43
NON-FEDERAL-AID ARTERIAL											
RURAL	3,786	3,752	2,722	65	1.73	1,450	38.81	83	2.21	2,886	76.71
URBAN	8,088	24,200	6,197	720	2.98	17,769	73.43	765	3.16	26,360	108.93
TOTAL	11,874	27,952	6,451	785	2.81	19,229	68.77	848	3.03	29,246	104.59
NON-FEDERAL-AID COLLECTOR											
RURAL	336,525	49,858	405	2,075	4.16	79,448	159.35	2,324	4.56	115,397	231.45
URBAN	18,115	20,099	3,039	401	2.00	15,782	93.45	443	2.20	27,220	135.43
TOTAL	354,640	69,957	540	2,476	3.54	95,231	140.42	2,767	3.96	142,617	203.86
NON-FEDERAL-AID LOCAL											
RURAL	2,224,440	83,411	102	3,633	4.36	163,118	195.56	3,997	4.79	234,379	280.99
URBAN	441,624	136,373	846	3,026	2.22	389,776	285.82	3,184	2.33	540,947	396.57
TOTAL	2,666,064	219,784	325	6,659	3.03	552,894	251.55	7,181	3.27	775,326	352.77
ALL FEDERAL-AID											
RURAL	660,989	553,654	2,294	16,059	2.90	372,917	67.36	18,702	3.38	611,246	110.40
URBAN	172,725	721,124	11,438	13,020	1.81	925,324	128.32	14,348	1.99	1,383,537	191.87
TOTAL	833,718	1,274,778	4,189	29,079	2.28	1,298,241	101.84	33,050	2.59	1,994,883	156.49
ALL NON-FEDERAL-AID											
RURAL	2,564,751	137,031	146	5,773	4.21	244,026	178.08	6,404	4.67	352,562	287.36
URBAN	467,827	180,672	1,058	4,147	2.30	426,328	235.97	4,392	2.43	594,927	323.06
TOTAL	3,032,578	317,703	287	9,920	3.12	670,354	211.00	10,796	3.40	947,189	298.14
NON-INTERSTATE											
RURAL	3,192,861	548,499	470	19,971	3.64	580,803	105.89	22,931	4.18	905,717	155.13
URBAN	630,975	726,337	3,153	15,463	2.13	1,270,472	174.91	16,862	2.32	1,856,714	255.63
TOTAL	3,823,836	1,274,836	913	35,434	2.78	1,851,275	145.22	39,793	3.12	2,762,431	216.69
TOTAL											
RURAL	3,225,740	690,685	586	21,832	3.16	616,943	89.32	25,106	3.63	963,908	139.56
URBAN	640,586	901,796	3,857	17,167	1.90	1,351,652	149.88	18,740	2.08	1,978,154	219.36
TOTAL	3,866,296	1,592,481	1,128	38,999	2.45	1,968,595	123.62	43,846	2.75	2,942,072	184.75

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 NONFATALLY 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 1982. FEDERAL-AID HIGHWAY MILEAGE IS FROM HPMS UNIVERSE DATA AS OF SEPTEMBER 30, 1983 AND VEHICLE-MILES

OF TRAVEL ARE FROM THE HPMS AREAWIDE SUMMARY TABLES AS OF SEPTEMBER 30, 1983. 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 NON-FATAL INJURY ACCIDENTS AND NON-FATALLY INJURED PERSONS WERE ESTIMATED BY FHWA FOR ALASKA, CONNECTICUT, FLORIDA, LOUISIANA, MARYLAND, MISSISSIPPI, NEW HAMPSHIRE, RHODE ISLAND, VERMONT, AND FOR THE NON-STATE MILEAGE OF MISSOURI.

TABLE 2. STATE ACCIDENT SUMMARY - 1982

STATE	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	FATAL ACCIDENTS		NON-FATAL INJURY ACCIDENTS		FATALITIES		NON-FATALITY INJURED PERSONS		FATALITY INJURED PEDESTRIANS		NON-FATALITY INJURED PEDESTRIANS	
			NUMBER	RATE 1/	NUMBER	RATE 1/	NUMBER	RATE 1/	NUMBER	RATE 1/	NUMBER	RATE 1/	NUMBER	RATE 1/
ALABAMA	87,483	28,516	744	2.61	22,588	79.20	839	2.94	32,404	113.63	98	0.34	1,140	4.00
ALASKA	5,885	3,702	94	2.54	4,050	110.48	103	2.78	6,048	163.37	30	0.57	230	6.21
ARIZONA	76,250	19,729	636	3.22	28,966	146.82	724	3.67	45,778	232.03	138	0.70	1,137	5.76
ARKANSAS	76,649	16,630	476	2.86	16,006	96.25	548	3.30	25,003	150.35	71	0.43	450	2.71
CALIFORNIA	173,888	169,999	4,122	2.42	184,972	108.81	4,618	2.72	274,073	161.22	744	0.44	13,134	7.73
COLORADO	23,786	23,786	557	2.51	26,493	111.38	567	2.80	38,928	163.66	81	0.33	1,090	4.58
CONNECTICUT	19,479	20,138	2/	2.30	2/	10.42	2/	2/	2/	2/	2/	2/	2/	2/
DELAWARE	5,269	4,591	45	2.50	4,742	103.29	122	2.66	7,189	156.59	20	0.44	274	5.97
DIST. OF COL.	1,102	3,380	35	1.04	9,127	270.03	36	1.07	13,319	399.97	11	0.33	1,108	32.78
FLORIDA	93,797	79,498	2/	2.27	2/	83.41	2/	2/	2/	2/	2/	2/	2/	2/
GEORGIA	104,253	48,731	1,097	2.25	40,645	83.41	1,229	2.52	60,504	124.16	168	0.34	2,437	11.01
HAWAII	4,172	6,048	144	2.38	8,512	140.74	159	2.63	12,070	199.57	35	0.58	666	11.01
IDAH0	68,395	7,857	212	2.70	7,107	90.45	255	3.25	11,006	140.08	22	0.28	240	3.95
ILLINOIS	134,405	65,835	1,475	2.24	104,689	159.02	1,652	2.51	156,263	237.36	330	0.50	9,437	14.33
INDIANA	91,654	39,203	840	2.14	41,994	107.12	955	2.44	61,285	156.33	109	0.28	1,730	4.41
IOWA	112,188	19,341	431	2.23	17,933	92.72	480	2.48	25,905	133.94	39	0.20	1,333	3.91
KANSAS	132,207	17,658	436	2.47	19,842	112.37	498	2.82	29,899	169.32	49	0.28	501	3.40
KENTUCKY	68,674	25,527	726	2.83	26,948	105.15	822	3.21	40,542	158.20	101	0.39	1,438	5.61
LOUISIANA	56,932	26,902	2/	3.58	2/	1,091	2/	2/	2/	2/	2/	2/	2/	2/
MAINE	21,953	7,649	151	1.97	9,686	126.63	168	2.20	14,053	183.72	24	0.31	459	6.00
MARYLAND	27,133	38,920	575	1.99	3/	94.12	640	2.21	46,718	127.41	133	0.36	2,750	7.50
MASSACHUSETTS	33,808	36,566	612	1.67	34,511	94.12	655	1.79	46,718	127.41	133	0.36	2,750	7.50
MICHIGAN	117,425	61,200	1,258	2.06	87,384	142.78	1,392	2.27	130,051	212.52	215	0.35	4,296	7.02
MINNESOTA	131,214	29,176	1,508	1.74	24,559	84.10	571	1.96	35,850	122.87	72	0.25	1,257	4.31
MISSISSIPPI	70,789	17,146	617	3.60	3/	115.13	730	4.26	3/	3/	3/	3/	3/	3/
MISSOURI	118,610	35,003	784	2.24	5,127	91.87	254	3.81	9,316	139.69	106	0.30	2,750	7.50
MONTANA	71,432	6,669	215	3.22	13,279	116.13	261	2.28	19,840	173.50	29	0.25	204	3.06
NEBRASKA	91,901	11,435	226	1.98	13,279	116.13	261	2.28	19,840	173.50	29	0.25	204	3.06
NEVADA	43,850	6,413	248	3.87	7,540	117.57	280	4.37	11,387	177.55	44	0.69	480	7.48
NEW HAMPSHIRE	14,467	5,971	154	2.15	3/	173	2/	2/	2/	2/	2/	2/	2/	2/
NEW JERSEY	33,692	51,802	990	1.91	81,921	158.14	1,086	2.10	121,513	234.57	286	0.55	6,931	13.38
NEW MEXICO	53,752	11,850	489	4.13	14,864	125.43	577	4.87	23,253	196.23	90	0.76	592	5.00
NEW YORK	109,825	80,484	1,956	2.43	170,688	212.08	2,153	2.68	252,959	314.30	609	0.76	20,636	25.64
NORTH CAROLINA	92,921	43,100	1,159	2.71	53,051	123.18	1,306	3.03	83,853	194.58	267	0.62	3,049	7.07
NORTH DAKOTA	86,041	5,252	128	2.44	3,868	73.65	148	2.82	5,600	110.43	9	0.17	172	3.27
OHIO	111,150	71,751	1,456	2.03	104,719	145.95	1,618	2.26	164,708	229.55	245	0.34	4,617	6.43
OKLAHOMA	109,875	30,011	916	3.05	24,045	80.13	1,070	3.57	35,743	119.10	119	0.40	805	2.68
OREGON	132,734	19,384	464	2.29	21,299	109.88	518	2.67	34,520	178.60	67	0.35	795	4.10
PENNSYLVANIA	115,964	71,313	1,603	2.25	83,679	117.34	1,810	2.54	124,972	175.24	287	0.40	6,797	9.53
RHODE ISLAND	6,275	5,908	99	1.68	2/	1.68	108	1.83	2/	2/	23	0.39	3/	3/
SOUTH CAROLINA	53,015	24,232	667	2.75	15,686	64.76	730	3.01	23,019	95.02	133	0.55	970	4.00
SOUTH DAKOTA	73,245	6,561	129	2.03	4,192	65.90	148	2.33	6,174	97.05	16	0.25	230	3.20
TENNESSEE	83,757	26,792	944	2.71	34,134	96.11	1,055	3.03	45,256	141.57	107	0.31	1,495	4.30
TEXAS	272,427	125,218	3,699	2.95	135,859	108.50	4,213	3.35	204,566	163.45	732	0.58	6,367	5.08
UTAH	44,147	10,925	262	2.41	11,524	105.48	296	2.71	17,691	161.92	44	0.40	1,360	12.45
VERMONT	73,245	3,933	92	2.30	3/	107	2/	2/	2/	2/	2/	2/	2/	2/
VIRGINIA	64,505	41,450	781	1.89	40,368	97.48	679	2.12	59,288	143.10	124	0.30	1,690	4.08
WASHINGTON	83,324	31,258	671	2.15	38,990	124.74	748	2.33	51,840	165.65	98	0.31	1,143	3.66
WEST VIRGINIA	34,568	10,932	407	3.72	16,187	148.07	455	4.25	25,854	235.50	46	0.42	675	6.17
WISCONSIN	108,059	32,734	695	2.04	38,422	111.06	770	2.35	52,830	169.10	94	0.29	1,933	5.59
WYOMING	36,945	5,261	173	3.28	3,812	72.18	201	3.81	3,836	110.51	24	0.45	169	3.20
SUM 5/	3,866,296	1,592,481	38,999	2.45	1,643,109	120.11	43,846	2.75	2,451,566	173.20	6,086	0.43	103,780	7.87
U. S. TOTAL 6/	3,866,296	1,592,481	38,999	2.45	1,968,595	123.62	43,846	2.75	2,942,072	184.75	6,879	0.43	125,272	7.87

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 1. SUM REFLECTS TOTAL OF DATA.
 SHOWN IN THIS TABLE SEE FOOTNOTE 3
 ESTIMATES OF FATAL ACCIDENTS AND FATALITIES ARE BASED ON FARS DATA.
 ESTIMATES OF TRAVEL INJURY ACCIDENTS, INJURIES, AND FATALITY AND NONFATALITY
 INJURED PEDESTRIANS WERE MADE BY FHWA.

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, the 1982 fatality rate is well below 3. Preliminary data for the first 8 months of 1983 indicate the 1983 rate will be even lower.

The 1982 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 1982.

Figures 2 and 3 show national traffic fatality and injury rate trends from 1967 through 1982 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 1967-1982 period.

Figures 4 and 5 show national trends from 1978 through 1982 by highway system. In the mid-70's, non-Interstate Federal-aid highway systems were changed 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 data on which Figure 3 through 6 are based were published in the annual Federal Highway Administration report, Fatal and Injury Accident Rates on Federal-Aid and Other Highway Systems. # *** Figure 1 U.S. Motor Vehicle Fatality Rates: 1925-1982 *** Figure 2 U.S. Fatality Rates for Interstate and Other

Systems: 1967-1982 *** Figure 3 U.S. Injury Rates for Interstate and Other

Systems: 1967-1982 *** Figure 4 U.S. Fatality Rates by Highway System: 1978-82 *** Figure 5 U.S. Injury Rates by Highway System: 1978-82

**FIGURE 1. U.S. MOTOR VEHICLE TRAFFIC FATALITY RATES
(1925 - 1982)**

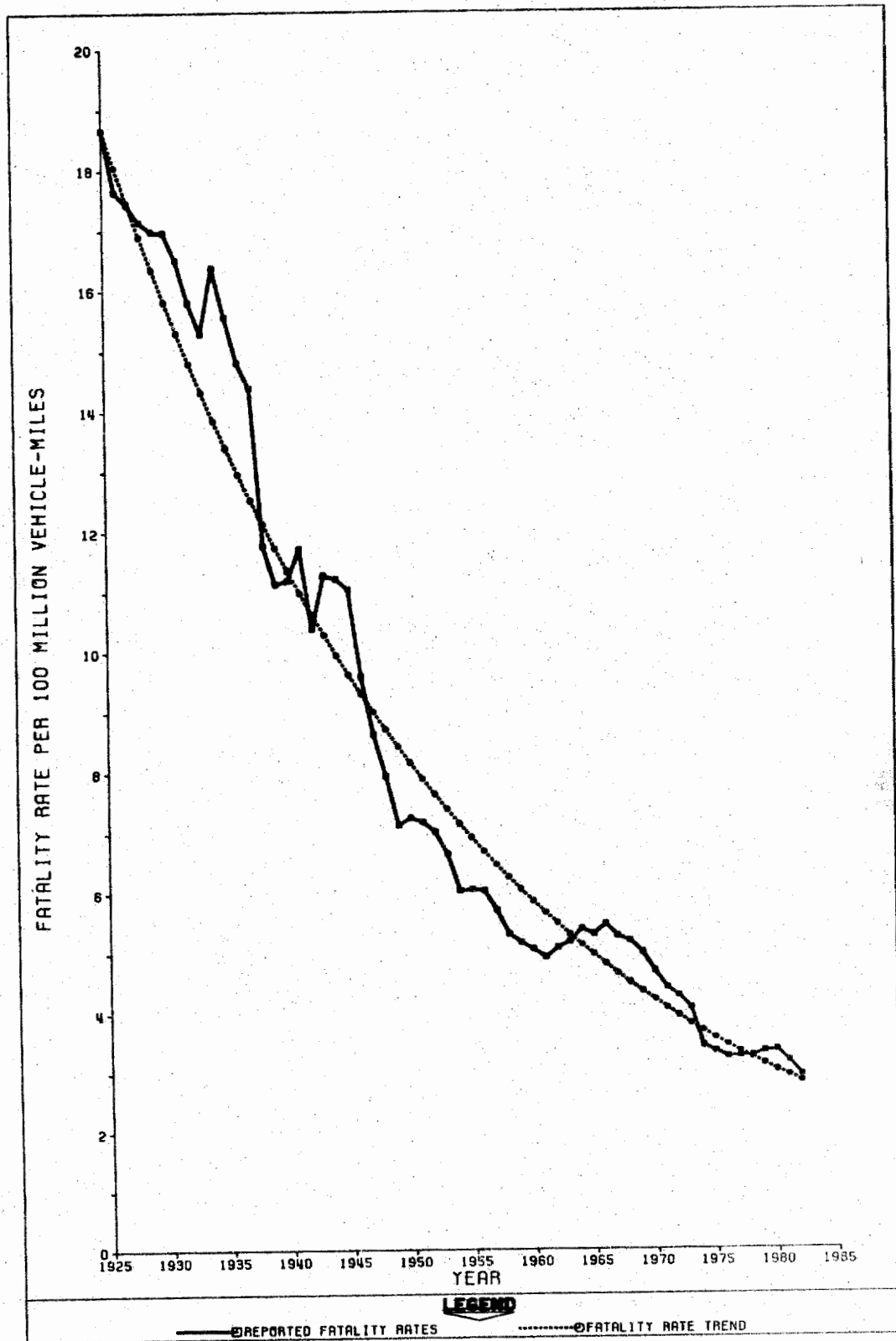


FIGURE 2. U.S. FATALITY RATES FOR INTERSTATE AND OTHER HIGHWAY SYSTEMS (1967-1982)

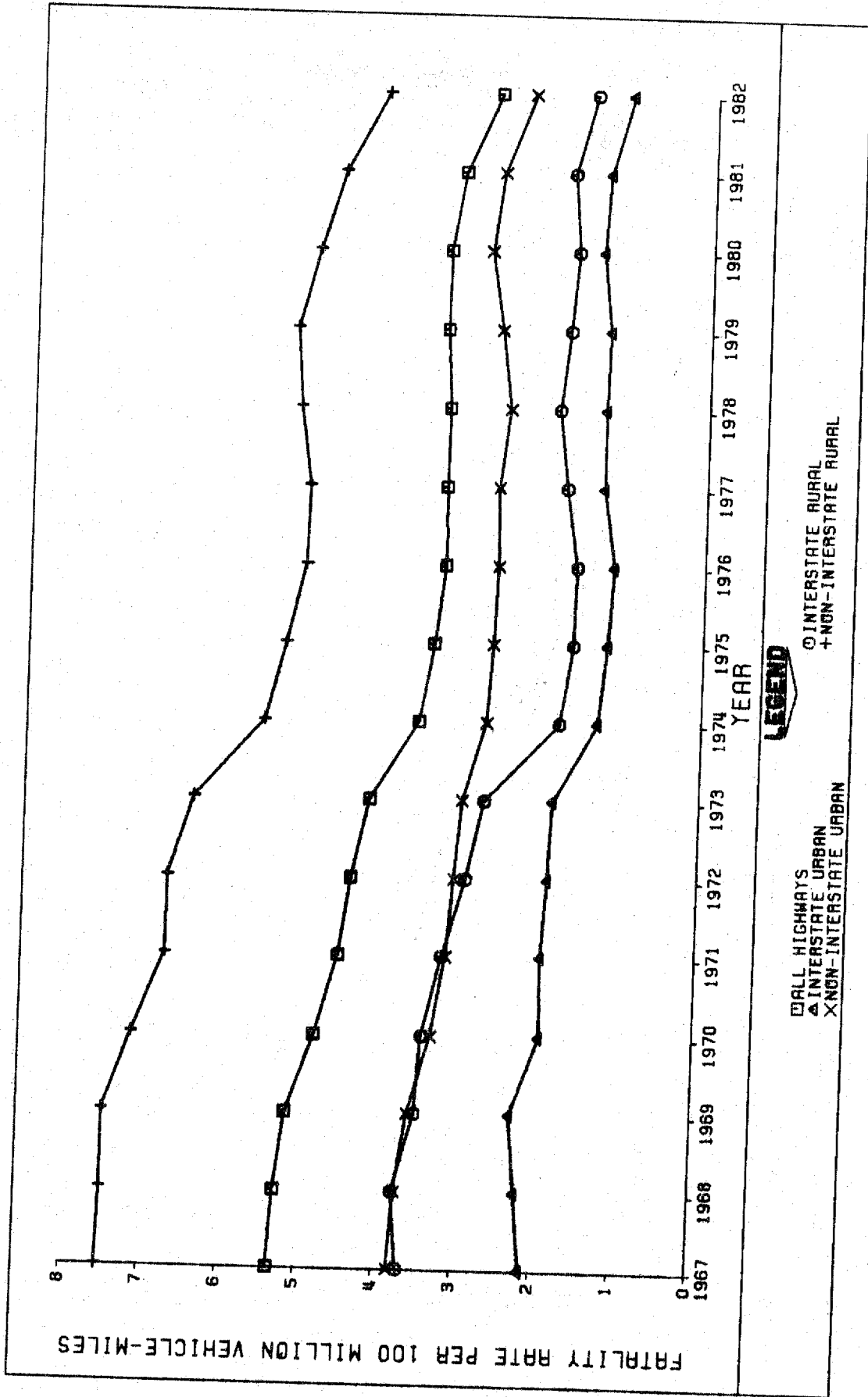
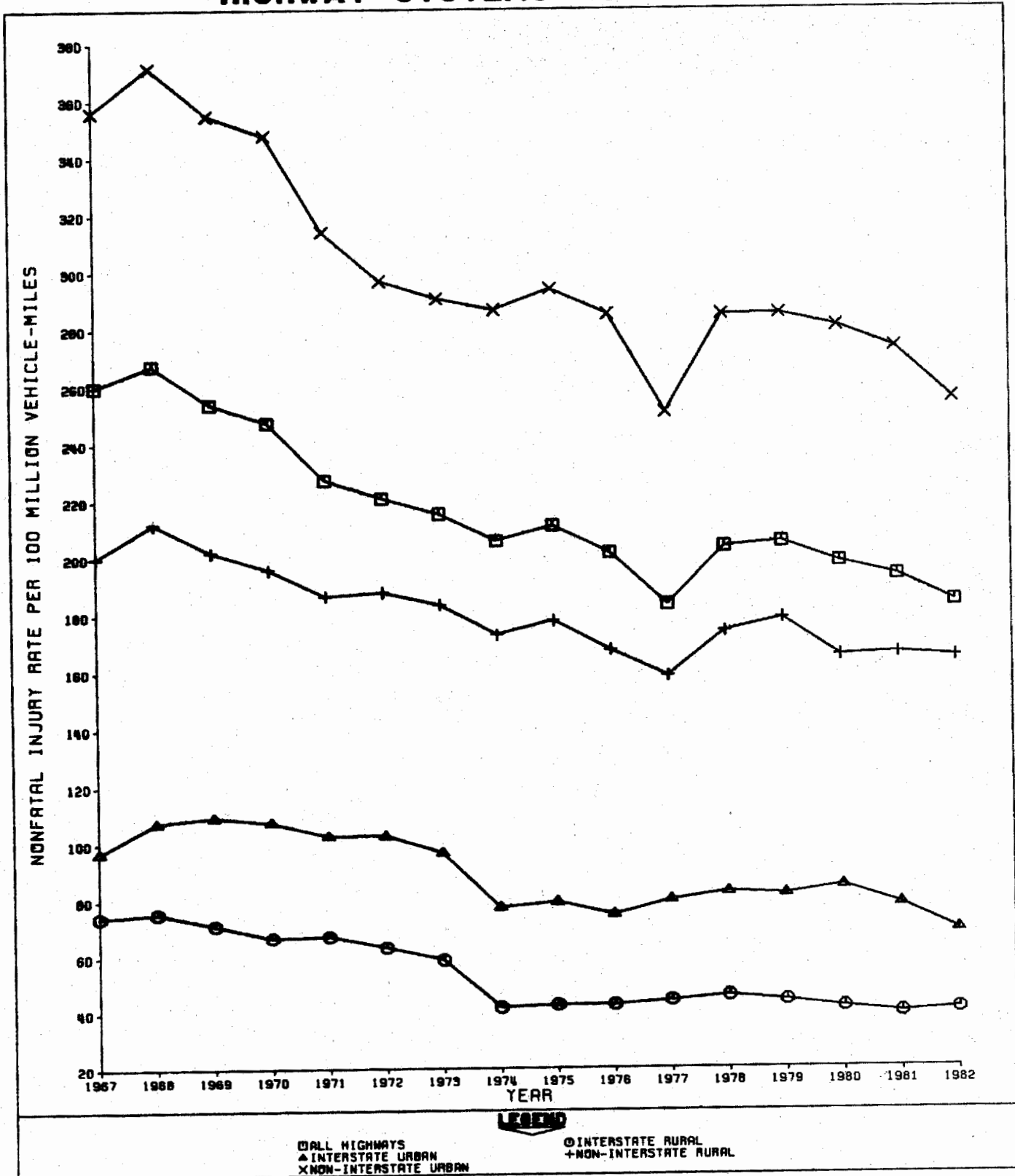


FIGURE 3. U.S. INJURY RATES FOR INTERSTATE AND OTHER HIGHWAY SYSTEMS (1967 - 1982)



**FIGURE 4. U.S. FATALITY RATES
BY HIGHWAY SYSTEM (1978 - 1982)**

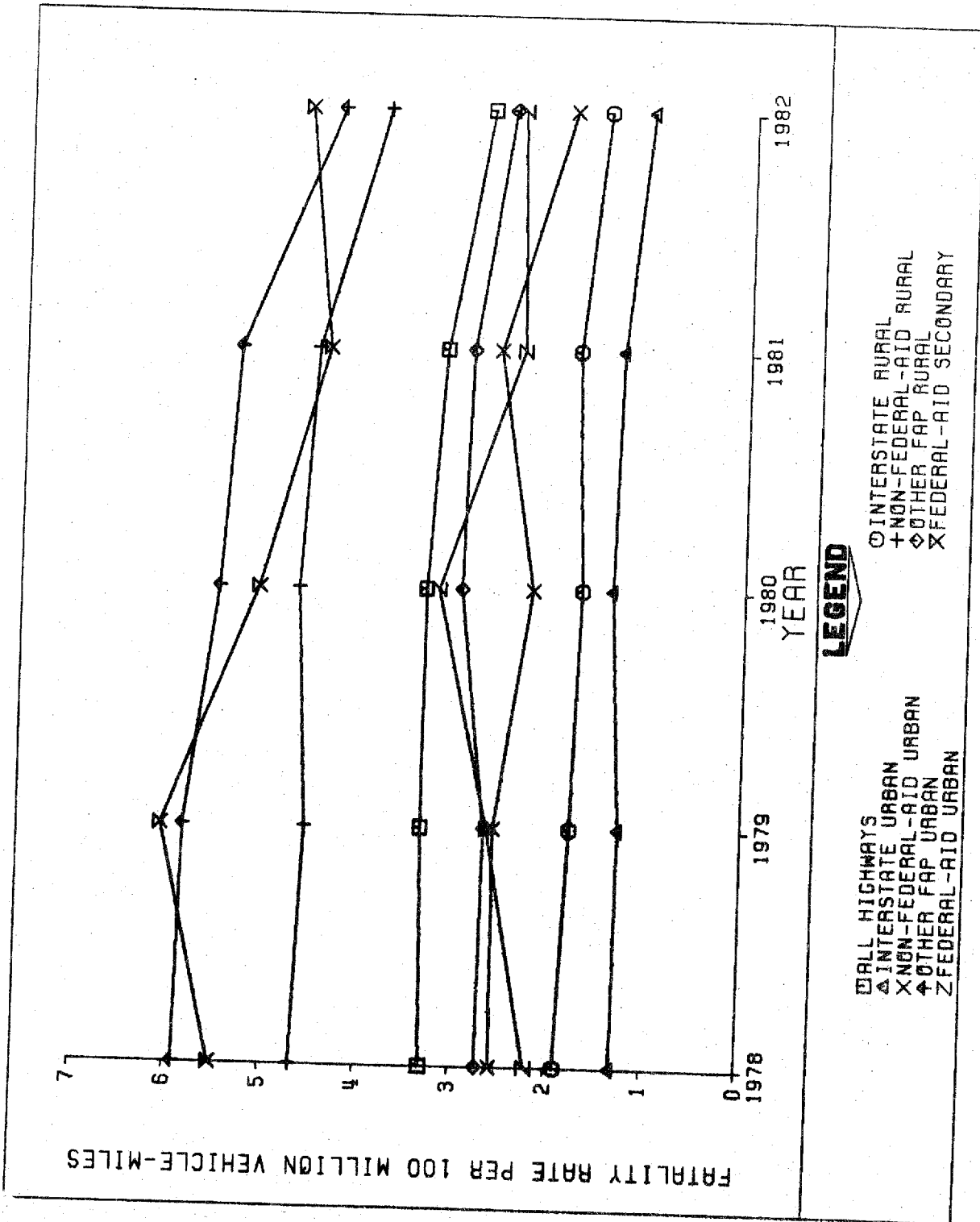
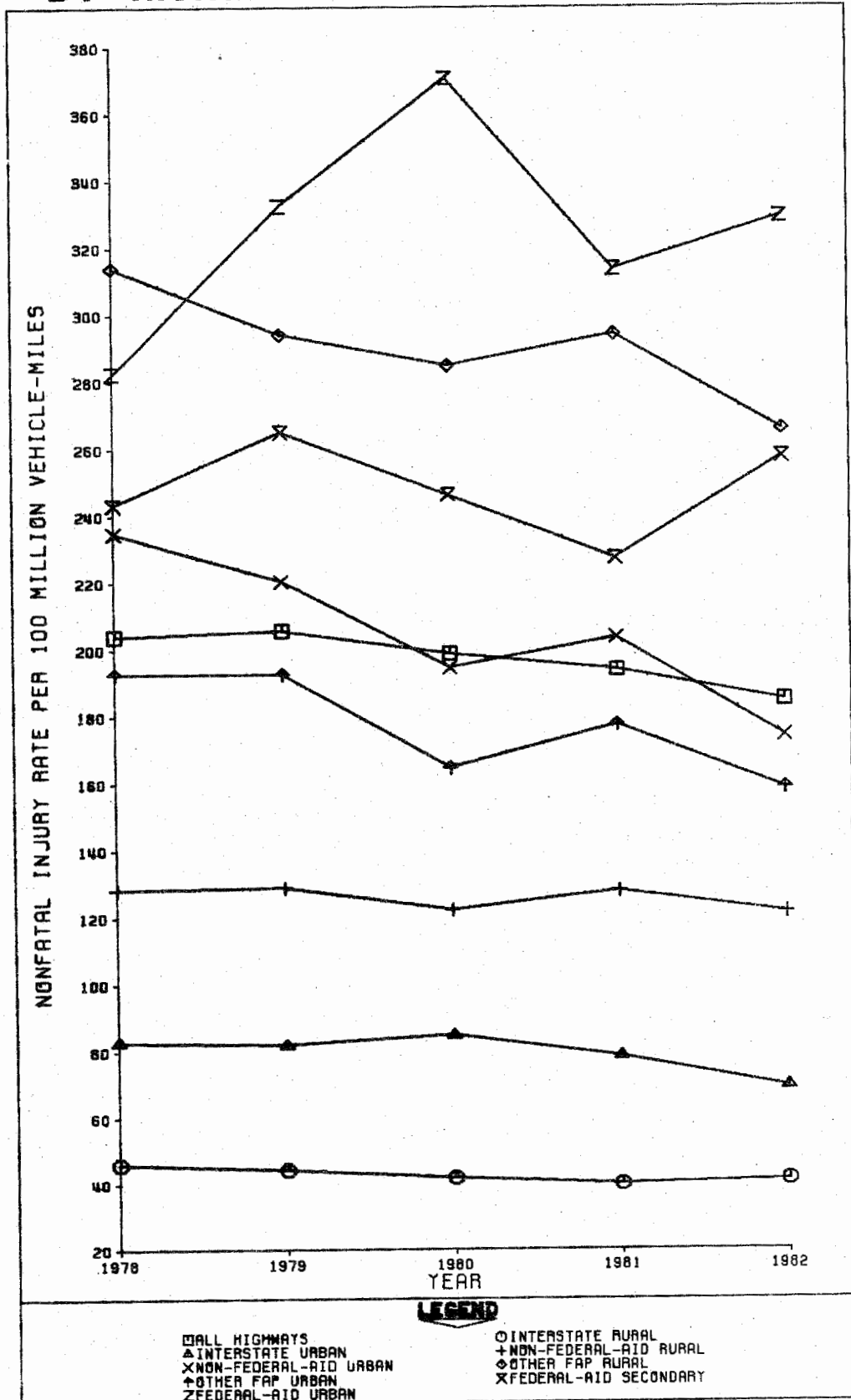


FIGURE 5. U.S. NONFATAL INJURY RATES BY HIGHWAY SYSTEM (1978 - 1982)



E. Comparison of State Statistics

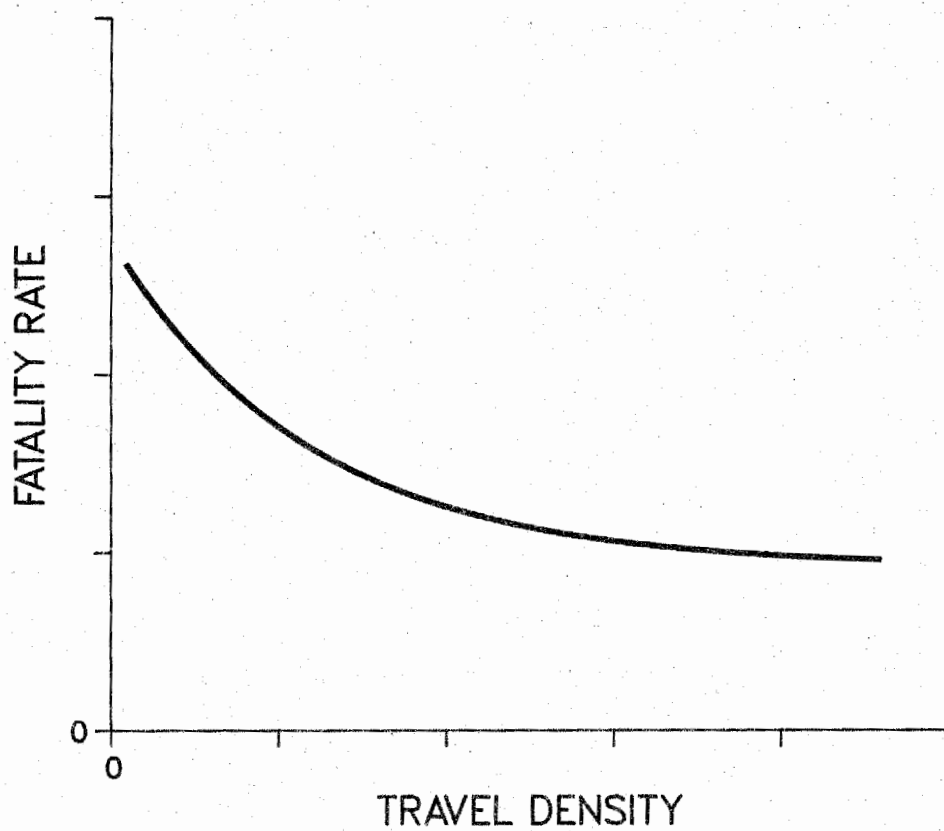
This report was prepared to help meet the need for statistical data to be used in comparing and evaluating the highway safety performance of the States. Those who use the report should be aware of some of the strengths and weaknesses of the data. For the most part, the data have been submitted by State 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 Interstate highway 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 - 1982
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 λ	NUMBER	RATE λ	
COMPLETE DATA					COMPLETE DATA							
ALABAMA	642	2,724	11,625	34	1.25	182	1,980	29,806	16	0.81		
ALASKA	1,072	722	1,845	33	4.57	20	1,159	23,151	1	0.59		
ARIZONA	1,028	3,143	8,376	78	2.48	115	1,230	29,303	16	1.30		
ARKANSAS	425	2,132	13,744	19	0.89	115	1,075	55,706	14	1.30		
CALIFORNIA	1,459	9,046	16,987	191	2.11	804	28,650	97,628	208	0.73		
COLORADO	806	2,625	8,923	67	2.55	34	2,287	55,951	42	1.55		
DELAWARE	931	1,164	64,188	1	0.61	12	516	41,979	8	1.11		
DIST. OF COL.						232	5,402	82,182	4	1.11		
GEORGIA	931	6,813	20,049	64	0.94	31	768	67,874	60	0.91		
HAWAII	55	52	28,493	2	3.85	52	270	14,226	5	1.85		
IDAHO	551	1,139	5,663	25	2.19	445	8,800	54,057	76	0.86		
ILLINOIS	1,265	5,054	10,946	41	0.81	259	3,684	38,970	24	0.65		
INDIANA	855	5,209	16,691	41	0.79	124	832	18,383	9	1.08		
IOWA	512	2,202	9,858	15	0.68	154	2,252	22,274	22	1.76		
KANSAS	654	1,701	7,125	15	0.88	141	2,150	41,776	25	1.16		
KENTUCKY	596	3,655	16,802	29	0.79	31	219	19,355	2	0.91		
MAINE	282	938	9,113	2	0.21	380	6,864	48,488	30	0.44		
MASSACHUSETTS	172	1,370	21,622	10	0.73	415	7,317	48,305	37	0.51		
MICHIGAN	716	3,619	13,848	40	1.11	177	2,823	43,696	18	0.64		
MINNESOTA	636	2,062	8,117	11	0.53	285	5,114	48,989	62	1.21		
MISSOURI	833	3,733	12,278	28	0.73	43	122	7,773	6	0.00		
MONTANA	1,045	1,313	3,315	31	2.35	35	467	36,556	6	1.41		
NEBRASKA	497	1,418	8,711	9	0.53	38	427	67,123	8	1.28		
NEVADA	108	1,069	5,920	32	2.98	230	5,635	21,489	49	0.92		
NEW JERSEY	916	2,130	6,371	7	0.65	83	651	41,971	6	1.07		
NEW MEXICO	874	4,044	12,577	36	3.76	554	8,487	28,995	91	0.98		
NEW YORK	583	3,570	15,777	35	0.98	182	2,032	8,393	2	1.67		
NORTH CAROLINA	536	715	3,555	6	0.84	35	1,130	52,034	87	0.70		
NORTH DAKOTA	583	2,494	11,517	2	0.46	655	12,410	32,810	17	1.14		
OREGON	1,174	6,959	21,517	28	1.12	124	1,458	39,684	47	1.01		
PENNSYLVANIA	583	6,792	15,850	50	0.74	323	4,639	55,193	13	1.24		
RHODE ISLAND	677	119	4,977	2	1.68	44	1,047	34,160	0	0.81		
SOUTH CAROLINA	616	3,158	12,780	25	0.82	79	985	10,205	0	0.00		
SOUTH DAKOTA	833	1,119	4,977	7	0.82	196	3,323	46,450	36	1.08		
TENNESSEE	2,235	5,582	18,359	68	1.22	841	17,323	56,433	313	1.81		
TEXAS	605	9,178	11,246	215	3.05	124	1,695	37,450	12	0.71		
UTAH	683	1,442	5,959	44	0.81	213	4,042	51,990	23	0.57		
VIRGINIA	805	4,588	15,955	38	0.66	224	5,133	60,058	22	1.43		
WASHINGTON	471	2,724	15,845	18	0.66	270	6,630	24,658	9	0.51		
WEST VIRGINIA	359	1,576	9,738	14	1.10	111	1,763	43,515	1	0.74		
WISCONSIN	466	2,870	16,873	20	0.70	49	1,135	7,548	1	0.74		
WYOMING	849	1,376	4,440	29	2.11							
SUBTOTAL	29,294	123,213	11,524	1,573	1.28	8,433	154,512	50,198	1,463	0.95		
INCOMPLETE DATA												
CONNECTICUT												
FLORIDA												
LOUISIANA												
MARYLAND												
MISSISSIPPI												
NEW HAMPSHIRE												
OKLAHOMA												
VERMONT												

λ FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.

TABLE 3-B. FATAL ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1982
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 λ	NUMBER	RATE λ
COMPLETE DATA					COMPLETE DATA						
ALABAMA	5,508	5,927	2,749	81	1.37	699	2,652	10,394	55	2.07	
ALASKA	1,532	1,025	1,025	17	2.97	16	84	14,984	1	1.19	
ARIZONA	3,316	3,172	2,621	147	4.63	156	1,143	18,864	34	2.97	
CALIFORNIA	9,819	17,644	4,923	656	3.72	1,381	28,027	55,592	321	1.15	
COLORADO	3,993	4,037	2,770	146	3.62	322	4,837	41,195	95	2.14	
DELAWARE	349	1,288	10,111	33	2.56	158	573	20,932	17	1.97	
DIST. OF COL.											
HAWAII	402	913	6,222	43	4.71	158	1,373	23,808	17	1.24	
IDAHO	2,575	1,580	1,681	76	4.81	110	1,170	29,141	28	2.39	
ILLINOIS	7,901	8,245	4,859	261	3.17	39	144	10,116	1	0.69	
INDIANA	4,190	7,018	4,599	184	2.62	1,822	10,010	15,052	253	2.53	
IOWA	8,193	5,785	1,934	138	2.35	795	3,933	13,554	55	1.40	
KANSAS	7,167	4,729	1,668	158	3.34	338	2,071	8,381	51	2.46	
KENTUCKY	3,294	4,565	3,797	176	3.86	429	1,320	10,700	23	1.74	
MAINE	1,834	2,000	2,988	45	2.30	159	7,936	17,910	9	1.40	
MASSACHUSETTS	1,015	8,059	4,714	37	1.42	124	7,936	17,910	9	1.33	
MICHIGAN	4,684	6,059	4,714	311	3.86	1,246	9,924	21,821	92	1.16	
MINNESOTA	6,372	6,947	2,153	169	2.43	1,472	2,371	13,762	37	0.37	
MISSOURI	5,320	2,126	1,081	195	2.92	565	3,460	16,778	38	1.60	
MONTANA	6,372	6,670	2,868	100	4.70	106	418	10,904	58	1.68	
NEBRASKA	6,995	3,580	1,401	85	2.37	106	418	10,904	5	1.20	
NEVADA	1,787	946	1,450	55	5.81	262	1,098	11,482	22	2.00	
NEW JERSEY	7,799	3,113	10,674	79	2.54	58	338	15,966	3	0.89	
NEW MEXICO	6,499	2,748	2,218	142	5.17	641	8,321	35,565	155	1.86	
NEW YORK	3,724	8,946	3,772	264	2.95	174	666	10,487	33	4.95	
NORTH CAROLINA	5,464	6,998	5,148	186	2.56	1,864	17,381	25,547	342	1.97	
NORTH DAKOTA	4,796	1,711	858	48	2.81	600	3,767	17,201	65	1.73	
OHIO	4,600	8,890	5,078	249	2.80	128	400	8,562	5	1.25	
OREGON	8,097	4,445	2,647	158	3.55	1,530	5,994	10,733	144	2.40	
PENNSYLVANIA	2,14	14,631	4,951	451	3.08	358	2,203	16,859	37	1.68	
RHODE ISLAND	5,074	6,515	6,811	17	3.20	1,833	11,819	17,665	222	2.25	
SOUTH CAROLINA	5,082	2,386	3,518	220	3.38	1,163	11,710	11,934	16	1.70	
SOUTH DAKOTA	5,082	3,484	3,496	54	2.29	113	2,703	17,574	46	1.43	
TENNESSEE	15,057	19,148	3,482	263	4.05	803	4,025	10,207	6	1.66	
TEXAS	2,473	1,535	1,701	793	4.10	1,570	12,682	23,746	67	1.43	
UTAH	4,953	8,280	4,580	63	4.10	103	454	22,131	328	2.59	
VIRGINIA	4,447	5,284	3,255	214	2.58	443	3,292	12,076	5	1.10	
WEST VIRGINIA	2,253	2,573	3,129	61	1.15	530	3,702	20,359	41	1.25	
WISCONSIN	7,378	8,982	1,374	128	4.97	180	755	11,492	27	0.70	
WYOMING	2,888	1,448	1,374	195	2.17	967	4,589	13,002	56	3.58	
SUBTOTAL	189,701	213,021	3,077	5,757	3.17	23,613	170,146	19,741	2,839	1.67	
INCOMPLETE DATA											
ARKANSAS											
CONNECTICUT											
FLORIDA											
GEORGIA											
LOUISIANA											
MARYLAND											
MISSISSIPPI											
NEW HAMPSHIRE											
OKLAHOMA											
VERMONT											

λ FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.

TABLE 3-C. FATAL ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1982
FEDERAL-AID URBAN HIGHWAYS

STATE	ARTERIAL			STATE			COLLECTOR				
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS NUMBER	RATE 1/	STATE	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS	
										NUMBER	RATE 1/
COMPLETE DATA											
ALASKA	81	447	15.119	8	2.01	COMPLETE DATA	29	77	7.274	1	1.30
ARIZONA	1,162	4,299	10.136	138	3.21	ALASKA	529	911	4.718	10	1.10
CALIFORNIA	11,425	59,716	12.881	1,495	2.78	ARIZONA	4,271	5,371	3.445	132	2.46
COLORADO	1,330	2,610	5.376	15	3.64	CALIFORNIA	4,952	823	2.388	17	2.07
DELAWARE	154	591	10.514	15	2.94	COLORADO	117	215	5.035	4	1.86
DIST. OF COL.	107	641	16.413	23	1.87	DELAWARE	126	321	6.487	0	0.00
HAWAII	126	952	20.700	15	2.42	DIST. OF COL.	56	259	13.150	5	1.86
IDAHO	268	959	9.804	326	1.56	HAWAII	304	494	5.452	3	0.61
ILLINOIS	3,457	13,047	10.340	161	2.50	IDAHO	2,950	5,520	5.219	74	1.32
INDIANA	2,952	6,625	6.149	31	2.43	ILLINOIS	1,802	1,511	2.237	32	2.12
IOWA	1,313	4,724	6.425	37	1.37	INDIANA	905	624	1.899	7	1.12
KANSAS	1,652	2,487	6.425	70	1.50	IOWA	477	273	1.568	2	0.73
KENTUCKY	1,372	3,382	6.305	8	1.02	KANSAS	727	1,087	4.036	26	2.39
MAINE	322	9,958	9.204	151	1.52	KENTUCKY	308	233	2.073	2	0.86
MASSACHUSETTS	2,908	12,785	11.998	83	0.85	MAINE	2,449	2,702	2.702	38	1.55
MICHIGAN	1,488	4,700	8,954	51	1.09	MASSACHUSETTS	1,920	3,523	5.027	7	0.20
MINNESOTA	2,428	6,137	5,445	105	1.69	MICHIGAN	554	439	2.171	9	2.05
MISSOURI	238	1,530	6.473	10	2.11	MINNESOTA	1,249	1,245	2.731	9	0.72
MONTANA	612	1,971	12.217	19	1.24	MISSOURI	347	348	1.489	1	2.00
NEBRASKA	442	1,971	12.217	80	4.06	MONTANA	63	32	2.748	2	0.57
NEVADA	3,547	12,534	9,681	344	2.74	NEBRASKA	1,812	3,015	1.392	0	0.00
NEW JERSEY	477	1,917	11.011	50	2.61	NEVADA	133	208	4.255	70	2.32
NEW MEXICO	5,101	13,885	9,004	574	4.13	NEW JERSEY	2,840	3,480	4.295	7	3.37
NEW YORK	1,951	6,445	4.687	100	1.55	NEW MEXICO	248	335	3.357	99	2.84
NORTH CAROLINA	3,354	7,000	5.651	245	2.08	NEW YORK	197	157	1.480	11	6.21
NORTH DAKOTA	3,642	2,633	7.272	71	3.50	NORTH CAROLINA	3,893	3,904	2.747	13	1.51
OHIO	473	11,307	10.026	222	2.70	OHIO	872	860	2.702	12	3.64
OREGON	259	4,096	8.094	27	0.61	OREGON	3,059	3,765	2.850	26	0.69
PENNSYLVANIA	1,234	4,096	8.094	117	2.85	PENNSYLVANIA	372	387	3.376	5	1.29
RHODE ISLAND	511	19,721	2,279	22	1.27	RHODE ISLAND	194	230	3.248	5	2.17
SOUTH CAROLINA	5,432	2,279	12.639	325	1.86	SOUTH CAROLINA	82	43	1.437	0	0.00
TENNESSEE	1,234	4,096	8.094	117	2.85	TENNESSEE	1,091	1,252	3.169	28	2.22
TEXAS	5,432	2,279	12.639	325	1.86	TEXAS	1,433	1,335	2.552	5	0.37
UTAH	1,898	7,603	10.975	46	2.02	UTAH	284	567	5.759	14	2.35
VIRGINIA	2,185	5,589	7,008	254	4.72	VIRGINIA	977	1,253	3,514	19	1.52
WASHINGTON	385	1,035	6.177	19	1.84	WASHINGTON	1,554	1,488	2.465	18	1.21
WEST VIRGINIA	1,948	4,392	6.177	25	0.57	WEST VIRGINIA	599	1,470	3,227	2	0.43
WISCONSIN	227	368	4.441	6	1.63	WISCONSIN	619	632	2,125	5	0.79
WYOMING	70,755	234,973	9.098	5,545	2.35	WYOMING	200	178	2,438	5	2.81
SUBTOTAL						SUBTOTAL	40,826	49,317	3.310	857	1.74
INCOMPLETE DATA						INCOMPLETE DATA					
ALABAMA						ALABAMA					
ARKANSAS						ARKANSAS					
CONNECTICUT						CONNECTICUT					
FLORIDA						FLORIDA					
GEORGIA						GEORGIA					
LOUISIANA						LOUISIANA					
MARYLAND						MARYLAND					
MISSISSIPPI						MISSISSIPPI					
NEW HAMPSHIRE						NEW HAMPSHIRE					
OKLAHOMA						OKLAHOMA					
VERMONT						VERMONT					

1/ FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.

**TABLE 3-D. FATAL ACCIDENTS
BY STATE AND HIGHWAY SYSTEM - 1982
FEDERAL-AID SECONDARY HIGHWAYS**

STATE	COLLECTOR, RURAL				
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATAL ACCIDENTS	
				NUMBER	RATE ^{1/}
COMPLETE DATA					
ALABAMA	11,074	3,516	870	88	2.50
ALASKA	2,324	720	849	16	2.22
ARIZONA	3,136	1,555	1,359	77	4.95
CALIFORNIA	11,103	7,715	1,904	406	5.26
COLORADO	3,441	1,140	908	60	5.26
DELAWARE	630	489	2,127	19	3.89
DIST. OF COL.	-	-	-	-	-
HAWAII	434	301	1,900	14	4.65
IDAHO	4,250	1,738	1,120	35	2.01
ILLINOIS	12,856	3,287	700	140	4.26
INDIANA	9,093	3,536	1,065	159	4.50
IOWA	13,341	2,299	472	83	3.61
KANSAS	22,530	2,164	263	75	3.47
KENTUCKY	7,295	3,857	1,449	196	5.08
MAINE	2,742	1,290	1,289	29	2.25
MASSACHUSETTS	2,006	1,583	2,162	40	2.53
MICHIGAN	19,019	8,637	1,244	29	0.34
MINNESOTA	16,281	3,037	511	91	3.00
MISSOURI	18,090	4,660	706	171	3.67
MONTANA	4,717	423	246	30	7.09
NEBRASKA	11,411	1,046	251	26	2.49
NEVADA	2,332	662	778	42	6.34
NEW JERSEY	1,731	2,173	3,439	81	3.73
NEW MEXICO	3,945	1,085	754	80	7.37
NEW YORK	6,381	3,836	1,647	178	4.64
NORTH CAROLINA	10,437	8,393	2,203	308	3.67
NORTH DAKOTA	10,455	675	177	29	4.30
OHIO	11,826	7,122	1,650	225	3.16
OREGON	7,709	1,622	576	76	4.69
PENNSYLVANIA	8,222	5,219	1,739	195	3.74
RHODE ISLAND	166	163	2,690	4	2.45
SOUTH CAROLINA	8,863	4,081	1,262	148	3.63
SOUTH DAKOTA	10,867	894	225	25	2.80
TENNESSEE	9,820	3,656	1,020	174	4.76
TEXAS	32,705	12,048	1,009	574	4.76
UTAH	2,556	635	681	22	3.46
VIRGINIA	10,360	4,759	1,259	149	3.13
WASHINGTON	7,081	2,501	968	19	0.76
WEST VIRGINIA	6,327	2,740	1,186	149	5.44
WISCONSIN	11,737	3,762	878	192	5.10
WYOMING	2,281	400	480	25	6.25
SUBTOTAL	341,574	119,419	958	4,479	3.75
INCOMPLETE DATA					
ARKANSAS					
CONNECTICUT					
FLORIDA					
GEORGIA					
LOUISIANA					
MARYLAND					
MISSISSIPPI					
NEW HAMPSHIRE					
OKLAHOMA					
VERMONT					

^{1/} FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.

TABLE 3-E. FATAL ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1982
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 1/					NUMBER	RATE 1/	
COMPLETE DATA						COMPLETE DATA						
ALABAMA						ALABAMA						
ALASKA						ALASKA						
ARIZONA	13	17	3,105	1	5.88	ARIZONA	22	10,585	1	1.18		
CALIFORNIA	31	73	6,452	2	2.74	CALIFORNIA	1,279	11,524	62	1.15		
COLORADO						COLORADO	4	3,425	0	0.00		
DELAWARE	1	1	2,740	0	0.00	DELAWARE	11	3,653	0	0.00		
DIST. OF COL.						DIST. OF COL.		23,412	1	1.06		
GEORGIA						GEORGIA						
HAWAII						HAWAII						
IDAHO	10	44	12,055	0	0.00	IDAHO	13	11,802	1	1.79		
ILLINOIS						ILLINOIS	28	4,092	0	0.00		
INDIANA						INDIANA	79	40,411	4	3.26		
IOWA	35	71	5,558	2	2.82	IOWA	12	40,411	4	3.26		
KANSAS	48	61	3,482	2	3.28	KANSAS	15	4,532	0	0.00		
KENTUCKY						KENTUCKY	210	7,958	16	2.62		
LOUISIANA						LOUISIANA	1	2,740	0	0.00		
MAINE	41	72	4,811	1	1.39	MAINE	15	7,854	4	9.30		
MASSACHUSETTS						MASSACHUSETTS	18	8,219	0	0.00		
MICHIGAN						MICHIGAN	163	5,547	3	0.91		
MINNESOTA						MINNESOTA	66	1,536	4	10.81		
MISSOURI						MISSOURI	203	4,980	27	7.32		
MISSOURI						MISSOURI	35	3,757	0	0.00		
MINNESOTA	9	8	2,435	0	0.00	MINNESOTA						
MONTANA	93	17	501	1	5.88	MONTANA	11	6,974	0	0.00		
NEBRASKA						NEBRASKA						
NEVADA	1	4	10,959	0	0.00	NEVADA	282	32,323	43	1.29		
NEW JERSEY	139	1,208	23,810	16	1.32	NEW JERSEY	100	3,452	1	0.79		
NEW MEXICO						NEW MEXICO	124	31,441	4	0.28		
NEW YORK						NEW YORK	1,275	4,102	31	1.62		
NORTH CAROLINA						NORTH CAROLINA	4	3,425	0	0.00		
NORTH DAKOTA	249	134	1,474	1	0.75	NORTH DAKOTA	55	5,579	1	0.69		
OHIO						OHIO						
OHIO	210	126	1,644	8	6.35	OHIO						
PENNSYLVANIA						PENNSYLVANIA						
RHODE ISLAND						RHODE ISLAND	296	4,285	8	1.73		
RHODE ISLAND						RHODE ISLAND	7	2,740	0	0.00		
SOUTH CAROLINA						SOUTH CAROLINA						
SOUTH CAROLINA	14	6	1,174	1	16.67	SOUTH CAROLINA						
TENNESSEE						TENNESSEE						
TENNESSEE						TENNESSEE	1,845	7,956	387	7.22		
TEXAS						TEXAS	98	2,126	0	0.00		
UTAH						UTAH						
UTAH	1	1	2,740	0	0.00	UTAH	54	13,952	3	1.09		
VERMONT						VERMONT	3	16,438	0	0.00		
VIRGINIA	309	219	1,942	2	0.91	VIRGINIA	145	5,356	2	0.58		
WASHINGTON	17	2	322	0	0.00	WASHINGTON	2	16,438	0	0.00		
WEST VIRGINIA	8	27	9,247	0	0.00	WEST VIRGINIA						
WISCONSIN						WISCONSIN						
WYOMING	251	104	1,135	0	0.00	WYOMING	6,439	8,870	607	2.91		
SUBTOTAL	1,482	2,195	4,058	37	1.69	SUBTOTAL	20,847	8,870	607	2.91		
INCOMPLETE DATA						INCOMPLETE DATA						
ARKANSAS						ARKANSAS						
CONNECTICUT						CONNECTICUT						
FLORIDA						FLORIDA						
MARYLAND						MARYLAND						
MISSISSIPPI						MISSISSIPPI						
NEW HAMPSHIRE						NEW HAMPSHIRE						
OKLAHOMA						OKLAHOMA						
WASHINGTON						WASHINGTON						
1/ FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.												

TABLE 3-F. FATAL ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1982
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					COMPLETE DATA							
ALABAMA	7,349	992	370	70	7.06	660	354	1,469	34	9.60		
ALASKA	1,001	245	671	2	0.82	27	27	2,740	1	3.70		
ARIZONA	4,840	592	392	30	4.34	459	559	3,337	10	1.79		
CALIFORNIA	12,112	3,077	696	154	5.00	2,496	2,766	3,036	62	2.24		
COLORADO	16,246	1,367	231	66	4.83	35	25	1,957	6	24.00		
DELAWARE	164	69	1,153	1	1.45	21	21	5,479	0	0.00		
DIST. OF COL.						5	10		0	0.00		
HAWAII	231	220	2,609	10	4.55							
IDAHO	4,740	222	1,128	17	3.15	87	220	6,928	1	0.45		
ILLINOIS	5,062	1,931	1,045	45	2.38	65	5	211	0	0.00		
INDIANA	10,850	2,297	580	32	2.38	175	115	1,800	0	0.97		
IOWA	16,472	688	1,114	28	4.07	43	131	8,347	3	2.59		
KANSAS	9,430	268	483	6	2.24	63	33	1,391	0	0.90		
KENTUCKY	9,386	1,587	521	79	4.98	294	320	2,982	4	1.45		
MAINE	2,814	576	82	15	2.60	123	120	2,673	4	4.17		
MASSACHUSETTS	1,954	443	62	57	3.39	36	17	1,294	4	23.53		
MICHIGAN	7,828	1,534	557	183	11.93	2,003	2,449	3,250	5	3.21		
MINNESOTA	12,143	1,930	210	32	3.44	1,227	311	3,278	4	0.16		
MISSOURI	5,456	278	140	10	2.88	240	1,468	3,550	18	1.23		
MONTANA	11,191	300	73	8	2.45	117	64	1,499	7	2.25		
NEBRASKA	2,418	136	76	5	3.58				2	3.13		
NEVADA	3,214	1,084	154	30	2.77	162	128	2,165	7	5.47		
NEW JERSEY	9,477	2,295	246	22	7.84	95	30	865	5	16.67		
NEW MEXICO	3,214	4,169	246	105	2.52	255	276	2,965	5	1.45		
NORTH CAROLINA	11,002	1,038	747	143	5.32	377	474	3,445	4	0.42		
NORTH DAKOTA	9,339	2,077	70	9	4.35	1,055	657	1,706	2	1.37		
OHIO	8,131	1,840	669	69	3.75	21	14	1,826	2	14.29		
OREGON	9,380	1,037	303	12	1.16							
PENNSYLVANIA	9,196	2,354	704	76	3.21	180	128	1,948	6	4.69		
RHODE ISLAND	221	1,111	1,376	2	1.80							
SOUTH CAROLINA	4,107	499	333	19	3.81							
SOUTH DAKOTA	7,554	225	82	8	3.56							
TENNESSEE	6,743	529	337	18	2.17	576	392	1,965	9	2.30		
TEXAS	20,739	2,206	291	110	4.99	60	74	3,379	1	1.35		
UTAH	4,678	178	100	34	19.10	3,707	4,228	3,125	101	2.39		
VIRGINIA	7,359	360	418	13	3.61	295	256	2,378	2	0.78		
WASHINGTON	2,373	923	343	52	5.63							
WEST VIRGINIA	2,210	330	409	13	3.94	23	13	1,549	0	0.00		
WISCONSIN	6,698	968	396	14	1.45	7	9	3,523	0	0.00		
WYOMING	7,560	502	182	24	4.78	531	404	2,084	3	0.74		
SUBTOTAL	282,976	38,878	376	1,582	4.07	15,901	16,277	2,822	318	1.95		
INCOMPLETE DATA												
ARKANSAS												
CONNECTICUT												
FLORIDA												
GEORGIA												
LOUISIANA												
MARYLAND												
MISSISSIPPI												
NEW HAMPSHIRE												
OKLAHOMA												
VERMONT												
1/ FATAL ACCIDENTS PER 100 MILLION VEHICLE MILES.												

TABLE 4-A. NONFATAL INJURY ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1982
FEDERAL-AID INTERSTATE HIGHWAYS

STATE	RURAL				STATE	URBAN					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS		RATE \downarrow	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS	RATE \downarrow
COMPLETE DATA					COMPLETE DATA						
ALABAMA	642	2,724	11,625	411	15.09	182	1,980	29,806	619	31.26	
ALASKA	1,072	3,722	8,376	396	54.85	20	169	23,151	288	170.41	
ARIZONA	1,028	3,143	8,376	366	30.73	115	1,230	29,303	896	72.85	
ARKANSAS	425	2,132	13,744	383	17.96	115	1,079	25,705	457	42.28	
CALIFORNIA	1,459	9,046	16,987	2,201	24.33	804	28,550	97,628	9,415	32.86	
COLORADO	806	2,625	8,923	1,102	41.98	110	2,587	56,961	1,762	77.04	
DELAWARE	7	184	64,188	40	24.39	34	516	41,579	138	26.74	
DIST. OF COL.						12	360	82,192	237	65.83	
GEORGIA	931	6,813	20,049	1,654	24.28	232	5,402	63,793	1,331	24.64	
HAWAII	5	52	28,493	57	109.62	31	768	67,874	647	84.24	
IDAHO	551	1,139	5,663	432	37.93	52	270	14,225	130	48.15	
ILLINOIS	1,265	5,054	10,946	1,270	25.13	446	8,800	58,057	5,653	64.24	
INDIANA	655	5,209	16,591	563	18.49	299	3,684	38,970	714	19.38	
IOWA	512	2,202	9,858	471	21.39	124	832	18,383	446	53.61	
KANSAS	554	1,701	7,126	506	29.75	154	1,252	22,274	752	60.06	
KENTUCKY	596	3,685	16,802	636	17.40	141	2,150	41,776	728	33.86	
MAINE	282	938	9,113	322	34.33	31	219	19,355	136	62.10	
MASSACHUSETTS	172	1,370	14,822	204	14.89	380	5,864	48,488	860	12.53	
MICHIGAN	716	3,619	13,848	1,972	51.73	415	7,317	48,305	3,197	43.69	
MINNESOTA	695	2,082	8,117	230	11.18	177	2,623	43,696	1,524	53.99	
MISSOURI	833	3,783	12,278	533	16.96	286	5,114	48,989	2,046	40.01	
MONTANA	1,085	1,313	3,315	465	35.42	43	122	7,773	64	52.46	
NEBRASKA	445	1,418	8,711	224	15.80	35	36,556	36,556	318	68.09	
NEVADA	497	1,074	5,920	363	33.80	38	427	30,785	345	80.80	
NEW JERSEY	108	1,069	27,118	200	18.11	230	5,635	67,123	2,333	41.40	
NEW MEXICO	915	2,130	6,371	842	39.53	83	651	21,489	363	55.76	
NEW YORK	874	4,044	12,677	2,027	50.12	554	8,487	41,971	6,425	75.70	
NORTH CAROLINA	983	3,570	16,777	743	20.81	192	2,032	28,995	699	34.40	
NORTH DAKOTA	536	715	3,655	148	20.70	35	120	9,393	37	30.83	
OHIO	882	6,959	21,617	1,337	19.21	655	12,440	52,034	5,509	44.28	
OREGON	583	2,454	11,720	467	18.72	124	1,485	32,810	619	41.68	
PENNSYLVANIA	572	5,782	15,850	1,964	28.92	323	4,655	39,484	2,105	45.22	
SOUTH CAROLINA	1,174	3,156	12,780	380	11.08	79	985	34,160	224	22.74	
SOUTH DAKOTA	616	1,119	4,977	228	20.38	40	149	10,205	86	57.72	
TENNESSEE	833	5,582	18,359	771	13.81	196	3,323	46,450	1,482	44.60	
TEXAS	2,236	9,178	11,246	2,506	27.30	841	17,323	56,433	12,980	74.93	
UTAH	605	1,442	5,959	586	40.64	124	1,695	37,430	611	36.05	
VIRGINIA	805	4,688	15,955	1,012	21.59	213	4,042	51,990	1,483	36.69	
WASHINGTON	471	2,724	15,845	441	16.19	234	5,133	60,098	1,148	22.37	
WEST VIRGINIA	359	1,276	9,738	313	24.53	70	630	24,658	347	55.08	
WISCONSIN	465	2,870	16,873	519	18.08	111	1,763	43,515	891	50.54	
WYOMING	849	1,376	4,440	645	46.88	49	135	7,548	68	50.37	
SUBTOTAL	29,256	123,094	11,523	30,900	25.10	8,389	153,465	50,119	70,123	45.69	
INCOMPLETE DATA											
CONNECTICUT											
FLORIDA											
LOUISIANA											
MARYLAND											
MISSISSIPPI											
NEW HAMPSHIRE											
OKLAHOMA											
RHODE ISLAND											
VERMONT											
\downarrow NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.											

TABLE 4-B. NONFATAL INJURY ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1982
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 1/	NUMBER	RATE 1/
COMPLETE DATA					COMPLETE DATA						
ALABAMA	5,908	5,927	2,749	2,967	ALABAMA	699	2,652	10,394	2,495	94.08	
ALASKA	1,532	1,025	1,025	50.06	ALASKA	16	14,384	14,384	235.71	198	
ARIZONA	3,316	3,172	1,025	1,438	ARIZONA	166	1,143	18,864	2,938	257.04	
CALIFORNIA	9,819	17,644	4,923	10,042	CALIFORNIA	1,381	28,027	59,160	12,477	44.52	
COLORADO	3,993	4,037	2,770	2,395	COLORADO	322	4,037	41,155	4,048	83.69	
DELAWARE	349	1,268	10,111	2,715	DELAWARE	75	573	20,932	673	152.36	
DIST. OF COL.					DIST. OF COL.	158	1,373	23,808	2,723	198.32	
HAWAII	402	913	6,222	854	HAWAII	110	1,170	29,141	1,607	137.33	
IDAHO	2,575	1,580	1,581	1,224	IDAHO	39	10,010	15,052	22,070	220.48	
ILLINOIS	7,901	8,245	2,859	6,546	ILLINOIS	1,822	3,983	13,554	4,759	229.79	
INDIANA	4,190	7,018	4,589	6,820	INDIANA	795	2,071	13,381	4,759	151.59	
IOWA	8,193	5,785	1,934	3,298	IOWA	338	1,820	10,700	2,001	116.13	
KANSAS	7,767	4,729	1,568	2,452	KANSAS	429	2,424	15,480	2,815	222.49	
KENTUCKY	3,294	4,565	3,787	3,471	KENTUCKY	159	557	10,115	1,306	65.37	
MAINE	1,834	2,000	2,988	1,727	MAINE	124	7,936	17,910	5,188	33.92	
MASSACHUSETTS	1,015	2,597	7,010	1,187	MASSACHUSETTS	1,246	5,924	21,921	3,366	118.99	
MICHIGAN	4,684	8,059	4,714	10,799	MICHIGAN	472	2,371	13,762	2,819	229.79	
MINNESOTA	5,372	6,947	2,153	3,109	MINNESOTA	565	3,460	16,778	2,686	77.63	
MISSOURI	5,380	6,670	2,968	3,409	MISSOURI	262	1,098	10,804	2,416	220.04	
MONTANA	6,999	2,126	1,081	1,600	MONTANA	106	418	11,482	2,416	220.04	
NEBRASKA	1,787	3,580	1,430	1,724	NEBRASKA	58	1,338	15,966	10,678	128.33	
NEVADA	1,787	946	1,430	675	NEVADA	641	8,321	35,565	2,150	328.93	
NEW JERSEY	3,394	3,113	10,674	2,948	NEW JERSEY	174	666	10,487	24,239	139.57	
NEW MEXICO	6,498	2,748	2,218	1,467	NEW MEXICO	1,864	17,381	25,547	15,214	253.82	
NEW YORK	5,454	8,946	3,772	19,268	NEW YORK	128	400	8,562	3,080	139.81	
NORTH DAKOTA	4,786	1,711	858	689	NORTH DAKOTA	1,530	5,994	10,733	15,214	253.82	
OHIO	4,600	8,890	5,078	5,918	OHIO	358	11,819	16,859	3,080	114.95	
OREGON	8,097	4,445	2,647	2,039	OREGON	1,833	2,703	17,974	3,579	182.55	
PENNSYLVANIA	5,074	14,631	4,951	12,080	PENNSYLVANIA	113	4,029	13,746	5,949	137.73	
SOUTH CAROLINA	5,738	6,516	3,518	2,701	SOUTH CAROLINA	412	2,703	17,974	3,579	182.55	
SOUTH DAKOTA	5,082	2,356	1,125	948	SOUTH DAKOTA	803	4,029	13,746	5,949	137.73	
TENNESSEE	18,067	5,484	3,482	4,123	TENNESSEE	1,570	12,682	22,131	14,832	116.95	
TEXAS	2,673	19,148	3,462	8,714	TEXAS	103	4,029	13,746	14,832	116.95	
UTAH	4,393	1,535	1,701	1,114	UTAH	443	3,292	12,076	3,411	103.61	
VIRGINIA	4,447	8,280	4,580	5,586	VIRGINIA	530	3,702	20,359	1,403	37.90	
WASHINGTON	2,253	5,284	3,239	1,421	WASHINGTON	180	3,702	19,137	1,291	170.99	
WEST VIRGINIA	7,978	2,573	3,123	3,488	WEST VIRGINIA	967	4,589	13,002	5,806	126.52	
WISCONSIN	2,888	1,448	3,085	5,115	WISCONSIN	92	4,589	13,002	5,806	126.52	
WYOMING			1,374	775	WYOMING			10,870	530	145.21	
SUBTOTAL	185,763	205,491	3,031	147,119	SUBTOTAL	22,850	165,669	19,864	185,631	112.05	
INCOMPLETE DATA					INCOMPLETE DATA						
ARKANSAS					ARKANSAS						
CONNECTICUT					CONNECTICUT						
FLORIDA					FLORIDA						
GEORGIA					GEORGIA						
LOUISIANA					LOUISIANA						
MARYLAND					MARYLAND						
MISSISSIPPI					MISSISSIPPI						
NEW HAMPSHIRE					NEW HAMPSHIRE						
NORTH CAROLINA					NORTH CAROLINA						
OKLAHOMA					OKLAHOMA						
RHODE ISLAND					RHODE ISLAND						
VERMONT					VERMONT						

1/ NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.

**TABLE 4-D. NONFATAL INJURY ACCIDENTS
BY STATE AND HIGHWAY SYSTEM - 1962
FEDERAL-AID SECONDARY HIGHWAYS**

STATE	COLLECTOR, RURAL					NONFATAL INJURY ACCIDENTS	
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NUMBER	RATE λ	NONFATAL INJURY ACCIDENTS	
						NUMBER	RATE λ
COMPLETE DATA							
ALASKA	3,324	720	649	550	77.79		
ARIZONA	3,136	1,555	1,389	999	63.60		
CALIFORNIA	12,103	7,715	1,904	12,342	159.97		
COLORADO	3,441	1,146	1,908	1,187	104.12		
DELAWARE	630	1,483	2,127	426	97.12		
DIST. OF COL.							
HAWAII	434	301	1,900	470	156.15		
IDaho	4,260	1,738	1,120	508	52.24		
ILLINOIS	12,856	3,287	700	3,516	106.97		
INDIANA	9,093	3,536	1,065	2,148	60.75		
IOWA	13,341	2,299	472	1,984	86.30		
KANSAS	22,530	2,164	263	1,356	62.66		
KENTUCKY	7,295	3,857	1,448	4,357	112.96		
MAINE	2,742	1,290	1,289	1,178	91.32		
MASSACHUSETTS	2,005	1,583	1,244	1,132	71.51		
MICHIGAN	19,019	8,637	1,244	455	5.27		
MINNESOTA	16,281	3,037	706	2,182	71.85		
MISSOURI	18,090	4,660	511	3,539	75.94		
MONTANA	4,717	1,046	245	407	86.52		
NEBRASKA	11,411	1,046	251	905	94.26		
NEVADA	2,332	662	778	624	143.63		
NEW JERSEY	1,731	2,173	3,439	3,121	98.25		
NEW MEXICO	3,949	1,085	754	1,066	330.94		
NEW YORK	6,381	3,836	1,647	12,695	54.22		
NORTH DAKOTA	10,455	875	1,177	366	123.79		
OHIO	11,826	7,122	1,650	8,816	112.33		
OREGON	7,709	1,622	576	1,822	108.51		
PENNSYLVANIA	8,222	5,219	1,739	5,583	52.73		
SOUTH CAROLINA	8,863	4,081	1,262	2,192	52.73		
SOUTH DAKOTA	10,867	4,884	225	435	48.86		
TENNESSEE	9,820	3,856	1,020	3,110	85.07		
TEXAS	32,705	12,048	1,609	8,514	70.67		
UTAH	2,556	635	681	541	85.20		
VIRGINIA	10,360	4,759	1,259	5,344	112.29		
WASHINGTON	7,081	2,501	968	3,997	39.85		
WEST VIRGINIA	6,327	2,740	1,186	3,921	143.10		
WISCONSIN	11,737	3,762	878	5,440	144.60		
WYOMING	2,281	480	480	288	72.00		
SUBTOTAL	319,897	107,347	919	104,956	97.77		
INCOMPLETE DATA							
ALABAMA							
ARKANSAS							
CONNECTICUT							
FLORIDA							
GEORGIA							
LOUISIANA							
MARYLAND							
MISSISSIPPI							
NEW HAMPSHIRE							
NORTH CAROLINA							
OKLAHOMA							
RHODE ISLAND							
VERMONT							
λ NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.							

TABLE 4-E. NONFATAL INJURY ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1982
NONFEDERAL-AID ARTERIAL 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 \downarrow				NUMBER	RATE \downarrow				
COMPLETE DATA														
ALABAMA	-	-	-	-	-	22	85	10,585	58	58.24				
ALASKA	-	-	-	-	-	1,279	5,380	11,524	4,028	74.87				
ARIZONA	15	17	3,105	10	-	4	5	3,425	1	25.00				
CALIFORNIA	31	73	6,452	31	-	3	4	3,653	282	300.00				
COLORADO	-	-	-	-	-	11	94	23,412	-	-				
DELAWARE	1	1	2,740	7	700.00	-	-	-	-	-				
DIST. OF COL.	-	-	-	-	-	-	-	-	-	-				
GEORGIA	-	-	-	-	-	13	56	11,802	116	207.14				
HAWAII	10	44	12,055	80	181.82	28	5	489	0	0.00				
IDAHO	-	-	-	-	-	79	118	4,092	249	211.02				
ILLINOIS	-	-	-	-	-	12	177	40,411	25	14.12				
INDIANA	35	71	5,558	0	0.00	15	27	4,932	0	0.00				
IOWA	-	-	-	-	-	210	610	7,958	1,781	291.97				
KANSAS	48	61	3,482	41	67.21	1	1	2,740	2	200.00				
KENTUCKY	-	-	-	-	-	15	43	7,854	996	2,316.28				
LOUISIANA	-	-	-	-	-	18	54	8,219	46	85.19				
MAINE	-	-	-	-	-	163	330	5,547	359	108.79				
MASSACHUSETTS	41	72	4,911	31	43.06	66	37	1,535	172	464.86				
MICHIGAN	-	-	-	-	-	35	48	3,757	78	162.50				
MINNESOTA	-	-	-	-	-	-	-	-	-	-				
MISSOURI	9	8	2,435	19	237.50	-	-	-	-	-				
MONTANA	93	17	501	11	64.71	11	28	6,974	18	64.29				
NEBRASKA	-	-	-	-	-	282	3,327	32,323	1,567	47.10				
NEVADA	1	4	10,959	6	150.00	100	1,126	3,452	175	138.89				
NEW JERSEY	139	1,208	23,810	438	36.26	124	1,423	31,441	1,201	84.40				
NEW MEXICO	-	-	-	-	-	4	5	3,425	1	20.00				
NEW YORK	-	-	-	-	-	-	-	-	-	-				
NORTH DAKOTA	-	-	-	-	-	55	112	5,579	75	55.96				
OHIO	-	-	-	-	-	-	-	-	-	-				
OREGON	210	126	1,644	108	85.71	-	-	-	-	-				
PENNSYLVANIA	-	-	-	-	-	296	463	4,285	635	137.15				
RHODE ISLAND	-	-	-	-	-	7	7	2,740	0	0.00				
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-				
SOUTH DAKOTA	14	6	1,174	3	50.00	1,646	5,361	7,956	1,197	22.33				
TENNESSEE	-	-	-	-	-	58	45	2,126	45	102.22				
TEXAS	-	-	-	-	-	-	-	-	-	-				
UTAH	1	1	2,740	1	100.00	54	275	13,952	15	5.45				
VERMONT	-	-	-	-	-	309	219	1,942	20	111.11				
VIRGINIA	17	2	322	0	0.00	145	293	5,836	256	87.37				
WASHINGTON	8	27	9,247	4	14.81	2	12	16,438	0	0.00				
WEST VIRGINIA	-	-	-	-	-	251	104	1,135	13,465	72.51				
WISCONSIN	-	-	-	-	-	-	-	-	-	-				
WYOMING	-	-	-	-	-	-	-	-	-	-				
SUBTOTAL	1,233	2,051	4,580	790	38.33	4,951	18,569	10,255	13,465	72.51				
INCOMPLETE DATA														
ALABAMA	-	-	-	-	-	-	-	-	-	-				
ARKANSAS	-	-	-	-	-	-	-	-	-	-				
CONNECTICUT	-	-	-	-	-	-	-	-	-	-				
FLORIDA	-	-	-	-	-	-	-	-	-	-				
LOUISIANA	-	-	-	-	-	-	-	-	-	-				
MARYLAND	-	-	-	-	-	-	-	-	-	-				
MISSISSIPPI	-	-	-	-	-	-	-	-	-	-				
NEW HAMPSHIRE	-	-	-	-	-	-	-	-	-	-				
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-				
OKLAHOMA	-	-	-	-	-	-	-	-	-	-				
WASHINGTON	-	-	-	-	-	-	-	-	-	-				

\downarrow NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.

TABLE 4-F. NONFATAL INJURY ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1982
NONFEDERAL-AID COLLECTOR HIGHWAYS

STATE	RURAL				URBAN				STATE	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURY ACCIDENTS		RATE ^{1/}	
	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																
ALASKA	1,001	245	671	174	71.02	27	27	2,740	67	248.15						
ARIZONA	4,840	692	392	232	33.53	459	459	3,337	978	174.96						
CALIFORNIA	12,112	3,077	696	10,372	337.08	2,496	2,496	3,036	4,028	145.63						
COLORADO	16,246	1,367	231	2,007	146.62	35	35	1,957	100	400.00						
DELAWARE	164	69	1,153	63	91.30	21	21	522	30	750.00						
DIST. OF COL.						5	5	5,479	37	370.00						
HAWAII	231	220	2,609	192	87.27	87	87	6,928	147	66.82						
IDAHO	4,740	222	128	160	72.07	65	65	2,211	0	0.00						
ILLINOIS	5,062	1,931	1,045	1,038	53.75	175	175	1,800	401	348.70						
INDIANA	10,850	2,297	1,944	1,944	84.63	43	43	8,347	46	35.11						
IOWA	16,472	688	114	659	97.24	65	65	1,391	39	118.18						
KANSAS	9,430	268	78	133	49.63	294	294	2,982	649	202.81						
KENTUCKY	9,386	1,587	463	2,046	128.92	123	123	2,673	239	199.17						
MAINE	2,814	576	561	788	136.81	36	36	1,294	215	1,264.71						
MASSACHUSETTS	1,954	443	621	709	160.05	232	232	1,842	146	93.59						
MICHIGAN	7,829	1,534	537	8,753	570.60	203	203	3,350	830	33.89						
MINNESOTA	12,143	930	210	688	73.98	117	117	1,468	2,491	169.69						
MISSOURI	5,455	278	140	230	82.73	117	117	3,278	68	106.25						
MONTANA	11,191	300	73	390	130.00	162	162	1,499	529	413.28						
NEBRASKA	11,614	321	76	391	121.81	95	95	2,165	150	500.00						
NEVADA	2,418	136	154	95	69.89	295	295	865	518	187.68						
NEW JERSEY	1,294	1,084	2,295	1,191	109.87	255	255	2,965	424	89.45						
NEW MEXICO	3,214	288	246	229	79.51	377	377	3,445	41	292.86						
NEW YORK	11,002	4,169	1,038	12,475	299.23	21	21	1,826	276	215.63						
NORTH DAKOTA	8,131	207	70	111	53.62	180	180	1,948	401	102.30						
OHIO	9,539	1,840	669	2,640	143.48	60	60	3,379	0	0.00						
OREGON	9,380	1,037	303	385	35.20	576	576	1,865	43	1.02						
PENNSYLVANIA	9,196	2,364	704	2,981	126.10	295	295	2,378	348	135.94						
SOUTH CAROLINA	4,107	499	333	225	45.09	23	23	1,549	26	200.00						
SOUTH DAKOTA	7,954	225	82	102	45.33	74	74	3,379	21	233.33						
TENNESSEE	6,743	829	337	283	34.14	295	295	3,125	513	126.98						
TEXAS	20,739	2,206	291	1,240	56.21	47	47	2,332	1	2.50						
UTAH	4,878	178	100	658	369.66	23	23	1,549	26	200.00						
VIRGINIA	2,359	360	418	520	144.44	7	7	3,523	21	233.33						
WASHINGTON	7,373	330	343	345	37.38	531	531	2,084	513	126.98						
WEST VIRGINIA	2,210	330	409	368	111.52	47	47	2,332	1	2.50						
WISCONSIN	6,598	968	396	400	41.32	47	47	2,332	1	2.50						
WYOMING	7,560	502	182	167	33.27	47	47	2,332	1	2.50						
SUBTOTAL	265,929	35,190	363	55,374	157.36	13,846	13,846	14,955	13,802	92.29						
INCOMPLETE DATA																
ALABAMA																
ARKANSAS																
CONNECTICUT																
FLORIDA																
GEORGIA																
LOUISIANA																
MARYLAND																
MISSISSIPPI																
NEW HAMPSHIRE																
NORTH CAROLINA																
OKLAHOMA																
RHODE ISLAND																
VERMONT																

^{1/} NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.

TABLE 4-6. NONFATAL INJURY ACCIDENTS BY STATE AND HIGHWAY SYSTEM - 1982
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													
ALABAMA	48,782	2,724	133	3,935	140.78	9,710	2,738	773	10,355	378.20			
ALASKA	2,784	368	362	1,114	202.72	999	270	740	56	20.74			
ARIZONA	85,065	1,613	80	3,013	186.79	6,437	1,310	358	3,437	262.37			
ARKANSAS	44,857	1,084	66	1,448	133.58	4,706	644	575	5,217	810.09			
CALIFORNIA	76,850	4,234	151	13,042	308.03	40,858	4,300	288	15,498	360.42			
COLORADO	41,752	1,417	93	1,206	85.11	6,442	2,613	1,111	2,156	82.51			
DELAWARE	2,759	347	345	437	125.94	955	330	947	601	182.12			
DIST. OF COL.													
HAWAII	1,770	296	458	114	38.51	673	581	2,365	2,887	496.90			
IDAHO	54,034	748	38	1,152	154.01	897	787	2,404	1,404	178.40			
ILLINOIS	76,974	3,237	115	4,194	129.56	1,418	553	1,018	2,259	144.48			
INDIANA	49,009	1,759	98	5,795	329.45	11,769	3,252	758	10,206	349.38			
IOWA	65,466	1,505	63	1,267	84.19	5,005	1,011	788	1,493	313.84			
KANSAS	83,420	1,218	40	2,325	190.89	4,475	1,275	599	2,991	147.68			
KENTUCKY	41,175	1,805	120	2,671	147.98	1,349	1,014	621	2,801	276.23			
MAINE	12,000	657	150	1,631	248.25	1,490	230	467	404	175.65			
MASSACHUSETTS	8,068	1,155	53	1,329	405.54	12,936	2,805	594	7,393	263.56			
MICHIGAN	60,033	2,253	157	13,720	1,136.71	16,490	2,109	319	34,191	1,782.64			
MINNESOTA	80,260	2,516	77	1,280	31.96	9,008	2,109	641	2,918	138.36			
MONTANA	46,659	1,119	54	1,429	127.79	1,666	699	1,150	226	32.33			
NEBRASKA	57,131	1,119	35	1,280	207.79	9,008	2,109	641	2,918	138.36			
NEVADA	34,440	284	21	1,429	127.79	1,666	699	1,150	226	32.33			
NEW JERSEY	7,386	752	279	2,084	65.93	3,044	508	457	1,006	198.03			
NEW MEXICO	37,856	747	54	2,084	277.13	15,628	403	690	815	202.23			
NEW YORK	48,676	5,121	288	1,910	134.67	3,205	1,008	1,673	11,900	124.72			
NORTH DAKOTA	59,894	5,707	32	21,484	427.85	25,534	9,238	991	1,883	188.35			
OHIO	56,892	6,168	297	7,715	58.46	19,743	11,434	1,587	28,437	307.83			
OREGON	102,836	1,353	36	676	125.08	19,743	11,434	1,587	15,554	213.73			
PENNSYLVANIA	61,416	5,483	245	6,006	49.96	5,835	886	416	15,554	136.03			
SOUTH CAROLINA	37,231	2,808	207	1,817	109.50	19,002	5,272	2,332	2,332	263.21			
SOUTH DAKOTA	46,890	524	31	540	64.71	4,895	937	750	21,883	415.08			
TENNESSEE	49,343	1,567	87	3,003	103.05	8,009	213	1,642	1,642	178.24			
TEXAS	141,815	4,537	90	9,548	191.64	8,612	3,565	578	5,456	214.08			
UTAH	28,563	4,578	55	205.91	205.91	44,576	17,351	1,261	5,800	146.29			
VIRGINIA	33,729	2,811	228	2,871	24.51	3,655	1,230	922	57,402	330.83			
WEST VIRGINIA	20,477	873	117	988	102.13	8,782	3,835	1,196	1,961	159.43			
WISCONSIN	67,401	1,311	53	4,008	113.17	1,890	196	1,196	4,543	118.46			
WYOMING	21,622	227	29	379	305.72	9,262	2,828	827	9,455	85.73			
SUBTOTAL	1,765,315	64,549	100	124,656	193.12	341,634	103,985	834	293,493	282.25			
INCOMPLETE DATA													
CONNECTICUT													
FLORIDA													
GEORGIA													
LOUISIANA													
MARYLAND													
MISSISSIPPI													
MISSOURI													
NEW HAMPSHIRE													
NORTH CAROLINA													
OKLAHOMA													
RHODE ISLAND													
VERMONT													
WASHINGTON													

^{1/} NONFATAL INJURY ACCIDENTS PER 100 MILLION VEHICLE MILES.

TABLE 5-A. FATALITIES BY STATE AND HIGHWAY SYSTEM - 1982
FEDERAL-AID INTERSTATE 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 λ	NUMBER	RATE λ		
COMPLETE DATA					COMPLETE DATA								
ALABAMA	642	2,724	11,625	36	1.32	182	1,980	29,806	18	0.91			
ALASKA	1,072	722	1,845	35	4.85	20	169	23,151	1	0.59			
ARIZONA	1,028	3,143	8,375	95	3.02	115	1,230	22,303	16	1.30			
ARKANSAS	425	2,132	13,744	21	0.98	115	1,079	25,705	14	1.30			
CALIFORNIA	1,459	9,046	16,987	227	2.51	804	28,550	57,628	229	0.80			
COLORADO	806	2,625	8,923	84	3.20	110	2,287	56,961	47	2.06			
DELAWARE	7	164	64,188	1	0.61	12	516	41,579	8	1.95			
DIST. OF COL.						12	82,192	4	4	1.11			
GEORGIA	931	6,813	20,049	78	1.14	232	5,402	63,793	64	1.18			
HAWAII	5	1,352	28,493	2	3.85	31	768	67,874	7	0.91			
IDAHO	551	1,135	5,663	31	2.72	52	270	14,226	7	2.59			
ILLINOIS	1,265	9,054	10,946	47	0.93	486	8,800	54,057	84	0.95			
INDIANA	855	5,209	16,691	54	1.04	259	3,684	38,970	25	0.88			
IOWA	612	2,202	9,958	22	1.00	124	832	18,363	9	1.08			
KANSAS	554	1,701	7,126	15	1.88	154	1,252	22,274	24	1.52			
KENTUCKY	596	3,555	15,802	35	0.95	141	2,150	41,776	28	1.30			
MAINE	282	9,938	9,113	2	0.21	31	219	19,355	3	1.37			
MASSACHUSETTS	172	1,370	21,822	11	0.80	380	5,864	49,488	31	0.45			
MICHIGAN	716	3,619	13,848	45	1.24	415	7,317	48,305	48	0.86			
MINNESOTA	696	2,062	8,117	11	0.53	177	2,823	43,696	18	0.84			
MISSOURI	833	3,733	12,278	31	0.83	286	5,114	48,989	71	1.39			
MONTANA	1,085	1,313	3,315	38	2.89	43	122	7,773	0	0.00			
NEBRASKA	446	1,418	8,711	12	0.65	35	467	36,556	7	1.50			
NEVADA	497	1,074	5,320	36	3.35	38	427	30,785	6	1.41			
NEW JERSEY	108	1,069	27,118	9	0.84	230	5,635	67,123	53	0.94			
NEW MEXICO	916	2,130	6,371	89	4.18	83	651	21,489	7	1.18			
NEW YORK	874	4,044	12,677	42	1.04	554	8,487	41,971	100	1.08			
NORTH CAROLINA	583	3,570	16,777	47	1.32	192	2,032	28,995	22	1.08			
NORTH DAKOTA	536	3,715	3,555	5	0.84	35	120	9,393	2	1.67			
OHIO	882	6,959	21,517	37	0.53	655	12,440	52,034	102	0.82			
OREGON	583	2,494	11,720	32	1.28	124	1,485	32,810	18	1.21			
PENNSYLVANIA	1,174	6,792	15,850	63	0.93	323	4,655	39,484	49	1.05			
RHODE ISLAND	28	119	11,544	2	1.68	44	1,047	65,193	13	1.24			
SOUTH CAROLINA	677	3,158	12,780	31	0.98	79	985	34,160	19	0.91			
SOUTH DAKOTA	515	1,119	4,977	10	0.89	40	149	10,205	0	0.00			
TENNESSEE	833	5,582	18,359	71	1.27	196	3,323	46,450	42	1.26			
TEXAS	2,236	9,178	11,246	245	2.71	841	17,323	56,433	337	1.95			
UTAH	663	1,442	5,959	47	3.26	124	1,655	37,450	13	0.77			
VIRGINIA	805	4,688	15,955	53	1.13	213	4,042	51,590	32	0.75			
WASHINGTON	471	2,724	15,845	20	0.73	234	5,133	60,098	25	0.49			
WEST VIRGINIA	359	1,275	9,738	16	1.25	70	630	24,658	11	1.75			
WISCONSIN	466	2,870	16,873	23	0.80	111	1,763	43,515	10	0.57			
WYOMING	849	1,376	4,440	33	2.40	49	1,135	7,548	1	0.74			
SUBTOTAL	29,294	123,213	11,524	1,849	1.50	8,433	154,512	50,198	1,615	1.05			
INCOMPLETE DATA													
CONNECTICUT													
FLORIDA													
LOUISIANA													
MARYLAND													
MISSISSIPPI													
NEW HAMPSHIRE													
OKLAHOMA													
VERMONT													

λ FATALITIES PER 100 MILLION VEHICLE MILES.

TABLE 5-B. FATALITIES BY STATE AND HIGHWAY SYSTEM - 1982
OTHER FEDERAL-AID PRIMARY 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					COMPLETE DATA						
ALABAMA	3,908	5,927	2,749	88	1.48	699	2,652	10,394	62	2.34	
ALASKA	1,532	1,025	1,025	19	3.32	16	14,384	14,384	1	1.19	
ARIZONA	3,312	3,172	2,621	177	5.58	166	18,864	18,864	37	3.24	
CALIFORNIA	7,819	17,644	4,923	817	4.83	1,381	28,027	55,602	354	1.26	
COLORADO	3,993	4,037	2,770	162	4.01	322	4,837	41,155	63	1.30	
DELAWARE	349	1,288	10,111	36	2.80	75	20,932	20,932	17	2.97	
DIST. OF COL.											
HAWAII	402	913	6,222	50	5.48	158	1,373	23,808	18	1.31	
IDAHO	2,575	1,580	1,681	99	6.27	110	1,170	29,141	29	2.48	
ILLINOIS	7,901	8,245	2,859	318	3.96	1,822	10,010	15,052	281	0.69	
INDIANA	4,190	7,018	4,589	223	3.18	795	3,933	13,554	62	1.58	
IOWA	8,193	5,785	1,934	153	2.64	677	2,071	8,381	51	2.46	
KANSAS	7,767	4,729	1,668	193	4.08	338	1,320	10,700	24	1.82	
KENTUCKY	3,294	4,565	3,797	207	4.53	429	2,424	15,480	37	1.53	
MAINE	1,834	2,000	2,988	53	2.65	159	587	10,115	12	2.04	
MASSACHUSETTS	1,015	2,597	7,010	42	1.62	1,214	7,956	17,910	98	1.23	
MICHIGAN	4,684	8,059	4,714	359	4.45	1,246	9,924	21,821	41	0.41	
MINNESOTA	8,842	6,947	2,153	201	2.89	472	2,371	13,762	42	2.71	
MISSOURI	6,372	6,670	2,868	228	3.42	565	3,460	16,778	70	2.02	
MONTANA	5,390	2,126	1,081	121	5.69	106	418	10,804	5	1.20	
NEBRASKA	6,999	3,580	1,401	101	5.82	262	1,098	11,482	25	2.37	
NEVADA	1,787	946	1,450	62	6.55	55	338	15,966	3	0.89	
NEW JERSEY	3,113	3,113	10,674	94	3.02	641	8,321	35,565	170	2.04	
NEW MEXICO	3,354	2,748	2,218	183	6.66	174	666	10,487	41	6.16	
NEW YORK	6,498	8,946	3,772	305	3.41	1,864	17,381	25,547	388	2.23	
NORTH CAROLINA	3,724	6,998	5,148	216	3.09	600	600	17,201	75	1.99	
NORTH DAKOTA	5,464	1,711	858	63	3.68	128	3,767	8,562	5	1.25	
OHIO	4,796	8,890	5,078	290	3.26	1,520	400	10,733	155	2.59	
OREGON	4,600	4,445	2,647	177	3.98	358	2,203	16,899	40	1.82	
PENNSYLVANIA	8,097	14,631	4,951	533	3.84	1,833	11,819	17,665	251	2.12	
RHODE ISLAND	532	6,811	6,811	18	3.38	163	710	11,934	16	2.25	
SOUTH CAROLINA	5,074	6,516	3,518	246	3.78	412	2,703	17,974	48	1.78	
SOUTH DAKOTA	5,738	2,356	1,125	62	2.63	113	421	10,207	6	1.43	
TENNESSEE	5,082	6,484	3,495	312	4.81	803	4,029	13,746	72	1.79	
TEXAS	15,067	19,118	3,482	973	5.08	1,570	12,682	22,131	364	2.87	
UTAH	2,473	1,535	1,701	77	5.02	103	494	12,076	5	1.10	
VIRGINIA	4,953	8,280	4,580	242	2.92	443	3,292	20,359	46	1.40	
WASHINGTON	4,447	5,284	3,255	74	1.40	530	3,702	19,137	30	0.81	
WEST VIRGINIA	2,253	2,573	3,125	152	5.91	180	755	11,492	30	3.97	
WISCONSIN	7,978	8,982	3,085	234	2.61	957	4,599	13,002	62	1.35	
WYOMING	2,888	1,448	1,374	74	5.11	92	365	10,870	5	2.47	
SUBTOTAL	189,701	213,021	3,077	8,034	3.77	23,613	170,146	19,741	3,147	1.85	
INCOMPLETE DATA											
ARKANSAS											
CONNECTICUT											
FLORIDA											
GEORGIA											
LOUISIANA											
MARYLAND											
MISSISSIPPI											
NEW HAMPSHIRE											
OKLAHOMA											
VERMONT											

1/ FATALITIES PER 100 MILLION VEHICLE MILES.

TABLE 5-C. FATALITIES BY STATE AND HIGHWAY SYSTEM - 1982
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 λ	NUMBER	RATE λ		
COMPLETE DATA					COMPLETE DATA								
ALASKA	81	447	15,119	12	2.68	29	77	7,274	1	1.30			
ARIZONA	1,162	4,299	10,136	193	3.56	529	911	4,718	10	1.10			
CALIFORNIA	11,425	53,716	12,881	1,618	3.01	4,271	5,371	3,445	147	2.74			
COLORADO	1,330	2,610	5,376	98	3.75	952	823	2,368	19	2.31			
DELAWARE	154	591	10,514	15	2.71	135	215	5,035	4	1.86			
DIST. OF COL.	107	641	16,413	12	1.67	56	321	6,487	0	0.00			
HAWAII	126	952	20,700	23	2.42	304	269	13,160	5	1.86			
IDAHO	258	959	9,804	15	1.56	2,950	494	5,219	3	0.61			
ILLINOIS	3,457	13,047	10,340	353	2.71	1,802	1,511	2,297	79	1.41			
INDIANA	2,952	6,825	6,149	175	2.64	905	624	1,889	34	2.25			
IOWA	1,313	2,264	4,724	32	1.41	727	273	1,087	7	1.12			
KANSAS	1,052	2,467	6,425	40	1.52	477	1,087	4,086	27	2.48			
KENTUCKY	1,032	3,362	8,925	80	2.38	308	233	2,073	2	0.86			
MAINE	342	787	6,305	9	1.02	727	1,087	2,702	2	0.59			
MASSACHUSETTS	3,322	9,948	8,204	161	0.68	2,483	2,449	5,027	39	0.20			
MICHIGAN	2,908	12,735	11,998	86	0.68	1,520	3,523	2,711	11	2.51			
MINNESOTA	1,488	4,700	6,654	56	1.19	554	439	2,731	10	0.80			
MISSOURI	2,428	6,197	5,993	123	1.58	1,249	1,245	2,731	10	2.00			
MONTANA	238	6,473	5,445	10	2.11	92	50	1,489	1	0.57			
NEBRASKA	612	1,530	6,849	21	1.37	347	348	2,748	2	0.57			
NEVADA	1,971	1,971	12,217	95	4.82	63	32	1,392	0	0.00			
NEW JERSEY	442	12,534	9,681	377	3.01	1,812	3,015	4,559	70	2.32			
NEW MEXICO	3,547	1,917	11,011	59	3.08	133	208	4,285	9	4.33			
NEW YORK	4,477	13,885	7,458	621	4.47	2,840	3,480	3,357	108	3.10			
NORTH CAROLINA	1,961	6,445	9,004	112	1.74	2,248	134	1,480	11	8.21			
NORTH DAKOTA	197	6,337	4,687	8	2.37	197	157	2,183	4	2.95			
OHIO	3,394	7,000	5,651	259	3.70	3,893	3,904	2,747	148	3.75			
OREGON	992	2,633	7,272	75	2.85	822	860	2,702	12	1.40			
PENNSYLVANIA	3,642	11,307	8,506	248	2.19	3,095	3,759	3,376	29	0.77			
RHODE ISLAND	473	1,731	10,026	25	1.44	372	387	2,850	5	1.29			
SOUTH CAROLINA	611	1,450	6,502	28	1.93	194	230	3,248	5	2.17			
SOUTH DAKOTA	259	4,096	3,491	2	0.61	82	43	1,437	0	0.00			
TENNESSEE	1,234	19,721	9,094	128	3.13	1,091	1,262	3,159	32	2.54			
TEXAS	5,492	19,721	9,938	368	1.87	1,433	1,597	2,552	5	0.37			
UTAH	494	2,279	12,539	52	2.28	284	1,577	5,759	20	1.60			
VIRGINIA	1,898	7,603	10,375	150	2.10	977	1,488	3,514	15	1.41			
WASHINGTON	2,185	5,569	7,008	395	7.07	1,654	1,488	2,465	20	0.43			
WEST VIRGINIA	385	1,035	7,365	21	2.03	815	632	3,227	2	0.95			
WISCONSIN	1,948	4,392	6,177	29	0.66	200	178	2,438	6	2.81			
WYOMING	227	368	4,441	6	1.63	200	178	2,438	5	2.81			
SUBTOTAL	70,756	234,973	9,098	6,160	2.62	40,826	49,317	3,310	917	1.86			
INCOMPLETE DATA													
ALABAMA													
ARKANSAS													
CONNECTICUT													
FLORIDA													
GEORGIA													
LOUISIANA													
MARYLAND													
MISSISSIPPI													
NEW HAMPSHIRE													
OKLAHOMA													
VERMONT													

λ FATALITIES PER 100 MILLION VEHICLE MILES.

**TABLE 5-D. FATALITIES
BY STATE AND HIGHWAY SYSTEM - 1982
FEDERAL-AID SECONDARY HIGHWAYS**

STATE	COLLECTOR, RURAL				FATALITIES RATE λ
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	FATALITIES NUMBER	
COMPLETE DATA					
ALABAMA	11,074	3,516	870	106	3.01
ALASKA	2,324	720	845	17	2.36
ARIZONA	3,136	1,555	1,359	83	5.34
CALIFORNIA	11,103	7,715	1,904	468	6.07
COLORADO	3,441	1,140	1,908	66	5.79
DELAWARE	630	489	2,127	20	4.09
DIST. OF COL.					
HAWAII	434	301	1,900	19	6.31
IDAH0	4,250	1,738	1,120	44	2.53
ILLINOIS	12,856	3,287	1,700	154	4.59
INDIANA	9,093	3,536	1,065	183	5.18
IOWA	13,341	2,299	472	100	4.35
KANSAS	22,530	2,164	263	84	3.88
KENTUCKY	7,295	3,857	1,449	221	5.73
MAINE	2,742	1,290	1,289	33	2.56
MASSACHUSETTS	2,006	1,583	2,162	41	2.59
MICHIGAN	19,019	8,637	1,244	30	0.35
MINNESOTA	16,281	3,037	1,511	100	3.29
MISSOURI	18,090	4,660	706	195	4.18
MONTANA	4,717	423	246	36	8.51
NEBRASKA	11,411	1,046	251	30	2.87
NEVADA	2,332	662	778	48	7.25
NEW JERSEY	1,731	2,173	3,439	91	4.19
NEW MEXICO	3,945	1,085	754	89	8.20
NEW YORK	6,381	3,836	1,847	190	4.95
NORTH CAROLINA	10,437	8,393	2,203	342	4.07
NORTH DAKOTA	10,455	675	177	30	4.44
OHIO	11,826	7,122	1,850	260	3.65
OREGON	7,709	1,622	576	88	5.43
PENNSYLVANIA	8,222	5,219	1,739	212	4.06
RHODE ISLAND	166	4,163	2,690	8	4.91
SOUTH CAROLINA	8,863	4,081	1,562	165	4.07
SOUTH DAKOTA	10,867	894	225	27	3.02
TENNESSEE	9,820	3,656	1,020	192	5.25
TEXAS	32,705	12,048	1,009	673	5.59
UTAH	2,556	635	681	25	3.94
VIRGINIA	10,360	4,759	1,259	168	3.53
WASHINGTON	7,081	2,501	968	30	1.20
WEST VIRGINIA	6,327	2,740	1,186	173	6.31
WISCONSIN	11,737	3,762	878	208	5.53
WYOMING	2,281	400	480	28	7.00
SUBTOTAL	341,574	119,419	958	5,078	4.25
INCOMPLETE DATA					
ARKANSAS					
CONNECTICUT					
FLORIDA					
GEORGIA					
LOUISIANA					
MARYLAND					
MISSISSIPPI					
NEW HAMPSHIRE					
OKLAHOMA					
VERMONT					
λ FATALITIES PER 100 MILLION VEHICLE MILES.					

TABLE 5-E. FATALITIES BY STATE AND HIGHWAY SYSTEM - 1982
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 λ	NUMBER	RATE λ		
COMPLETE DATA					COMPLETE DATA								
ALABAMA	-	-	-	-	ALABAMA	22	85	-	-	10,585	-	1	1.18
ALASKA	-	-	-	-	ALASKA	1,279	5,380	-	-	11,524	-	65	1.21
ARIZONA	15	17	3,105	1	ARIZONA	4	5	5	4	3,425	0	0	0.00
CALIFORNIA	31	73	6,452	3	CALIFORNIA	3	4	4	4	3,653	0	0	0.00
COLORADO	-	-	-	-	COLORADO	11	94	23,412	1	23,412	1	1	1.06
DELAWARE	1	1	2,740	0	DIST. OF COL.	-	-	-	-	-	-	-	-
DIST. OF COL.	-	-	-	-	DELAWARE	-	-	-	-	-	-	-	-
GEORGIA	-	-	-	-	GEORGIA	13	56	11,802	1	11,802	1	1	1.79
HAWAII	10	44	12,055	0	HAWAII	28	5	489	0	489	0	0	0.00
IDAHO	-	-	-	-	IDAHO	79	118	4,092	4	4,092	4	4	3.39
ILLINOIS	-	-	-	-	ILLINOIS	12	177	40,411	4	40,411	4	4	2.26
INDIANA	35	71	5,558	2	INDIANA	15	27	4,932	0	4,932	0	0	0.00
IOWA	48	61	3,482	3	IOWA	210	610	7,958	16	7,958	16	16	2.62
KANSAS	-	-	-	-	KANSAS	15	43	2,740	0	2,740	0	0	0.00
KENTUCKY	-	-	-	-	KENTUCKY	15	54	7,854	4	7,854	4	4	9.30
LOUISIANA	-	-	-	-	LOUISIANA	18	54	8,219	0	8,219	0	0	0.00
MAINE	41	72	4,811	1	MAINE	66	37	1,536	3	1,536	3	3	0.91
MASSACHUSETTS	-	-	-	-	MASSACHUSETTS	203	369	4,980	27	4,980	27	27	7.32
MICHIGAN	-	-	-	-	MICHIGAN	35	48	3,757	0	3,757	0	0	0.00
MINNESOTA	9	8	2,435	0	MINNESOTA	11	28	6,374	0	6,374	0	0	0.00
MISSOURI	93	17	501	3	MISSOURI	282	3,327	32,323	46	32,323	46	46	1.38
MONTANA	-	-	-	-	MONTANA	100	126	3,452	1	3,452	1	1	0.79
NEBRASKA	1	4	10,959	0	NEBRASKA	124	1,423	31,441	4	31,441	4	4	0.28
NEVADA	139	1,208	23,810	20	NEVADA	1,275	1,909	4,102	33	4,102	33	33	1.73
NEW JERSEY	-	-	-	-	NEW JERSEY	4	5	3,425	0	3,425	0	0	0.00
NEW MEXICO	-	-	-	-	NEW MEXICO	55	112	5,579	1	5,579	1	1	0.89
NEW YORK	249	134	1,474	1	NEW YORK	295	463	4,285	8	4,285	8	8	1.73
NORTH CAROLINA	-	-	-	-	NORTH CAROLINA	7	7	2,740	0	2,740	0	0	0.00
NORTH DAKOTA	-	-	-	-	NORTH DAKOTA	1,846	5,361	7,956	418	7,956	418	418	7.80
OHIO	-	-	-	-	OHIO	58	45	2,126	0	2,126	0	0	0.00
OREGON	210	126	1,644	10	OREGON	54	275	13,952	4	13,952	4	4	1.45
PENNSYLVANIA	-	-	-	-	PENNSYLVANIA	3	3	16,438	0	16,438	0	0	0.00
RHODE ISLAND	-	-	-	-	RHODE ISLAND	145	293	5,536	2	5,536	2	2	0.68
SOUTH CAROLINA	-	-	-	-	SOUTH CAROLINA	2	12	16,438	0	16,438	0	0	0.00
SOUTH DAKOTA	14	6	1,174	1	TENNESSEE	6,439	20,847	8,870	647	8,870	647	647	3.10
TENNESSEE	-	-	-	-	TENNESSEE	-	-	-	-	-	-	-	-
TEXAS	-	-	-	-	TEXAS	-	-	-	-	-	-	-	-
UTAH	1	1	2,740	0	UTAH	18	18	16,438	0	16,438	0	0	0.00
VERMONT	309	219	1,942	2	VERMONT	145	293	5,536	2	5,536	2	2	0.68
VIRGINIA	17	2	322	0	VIRGINIA	2	12	16,438	0	16,438	0	0	0.00
WASHINGTON	8	27	9,247	0	WASHINGTON	-	-	-	-	-	-	-	-
WEST VIRGINIA	-	-	-	-	WEST VIRGINIA	-	-	-	-	-	-	-	-
WISCONSIN	251	104	1,135	0	WISCONSIN	-	-	-	-	-	-	-	-
WYOMING	1,482	2,195	4,058	47	WYOMING	-	-	-	-	-	-	-	-
SUBTOTAL					SUBTOTAL								
INCOMPLETE DATA					INCOMPLETE DATA								
ARKANSAS	-	-	-	-	ARKANSAS	-	-	-	-	-	-	-	-
CONNECTICUT	-	-	-	-	CONNECTICUT	-	-	-	-	-	-	-	-
FLORIDA	-	-	-	-	FLORIDA	-	-	-	-	-	-	-	-
MARYLAND	-	-	-	-	MARYLAND	-	-	-	-	-	-	-	-
MISSISSIPPI	-	-	-	-	MISSISSIPPI	-	-	-	-	-	-	-	-
NEW HAMPSHIRE	-	-	-	-	NEW HAMPSHIRE	-	-	-	-	-	-	-	-
OKLAHOMA	-	-	-	-	OKLAHOMA	-	-	-	-	-	-	-	-
WASHINGTON	-	-	-	-	WASHINGTON	-	-	-	-	-	-	-	-

λ FATALITIES PER 100 MILLION VEHICLE MILES.

TABLE 5-F. FATALITIES BY STATE AND HIGHWAY SYSTEM - 1982
NONFEDERAL-AID COLLECTOR 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 λ				NUMBER	RATE λ			
COMPLETE DATA													
ALABAMA	7,349	992	370	85	8.57	660	354	1,469	38	10.73			
ALASKA	1,001	671	671	3	1.22	27	27	2,740	1	3.70			
ARIZONA	4,840	692	392	38	5.49	459	559	3,337	10	1.79			
CALIFORNIA	12,112	3,077	696	168	5.46	2,936	2,766	3,036	68	2.46			
COLORADO	16,246	1,367	231	75	5.49	35	25	1,957	8	32.00			
DELAWARE	164	69	1,153	2	2.90	21	4	522	0	0.00			
DIST. OF COL.						5	10	5,479	0	0.00			
HAWAII	231	220	2,609	11	5.00								
IDAHO	4,740	222	128	8	3.60	87	220	6,928	1	0.45			
ILLINOIS	5,062	1,931	1,045	55	2.85	65	5	1,800	0	0.00			
INDIANA	10,850	2,297	590	38	1.65	175	115	1,800	1	0.87			
IOWA	16,472	888	114	36	5.23	65	33	8,347	5	3.82			
KANSAS	9,430	268	78	7	2.61	65	33	1,391	0	0.00			
KENTUCKY	9,386	1,587	463	90	5.67	294	320	2,982	4	1.25			
MAINE	2,814	576	561	15	2.60	123	120	2,573	6	5.00			
MASSACHUSETTS	1,954	443	521	18	4.06	36	17	1,294	4	23.53			
MICHIGAN	7,928	1,534	557	201	13.10	232	156	1,842	6	3.85			
MINNESOTA	12,143	930	210	34	3.66	2,003	2,449	3,350	4	0.16			
MISSOURI	5,456	300	140	8	2.88	1,227	1,468	3,278	20	1.36			
MONTANA	11,191	278	73	10	3.33	240	311	3,550	8	2.57			
NEBRASKA	11,614	321	76	9	2.80	117	64	1,499	2	3.13			
NEVADA	2,418	135	154	5	3.68	162	128	2,165	7	5.47			
NEW JERSEY	1,294	1,084	2,295	31	2.86	95	30	865	5	15.67			
NEW MEXICO	3,214	288	246	24	8.33	255	276	2,965	5	1.81			
NEW YORK	11,002	4,169	1,038	115	2.76	377	474	3,445	2	0.42			
NORTH CAROLINA	9,477	2,585	747	159	6.15	1,055	657	1,706	10	1.52			
NORTH DAKOTA	8,131	207	70	10	4.83	21	14	1,826	2	14.29			
OHIO	7,539	1,840	669	74	4.02	180	128	1,948	6	4.69			
OREGON	9,380	1,037	303	13	1.25								
PENNSYLVANIA	9,196	2,364	704	87	3.68								
RHODE ISLAND	111	111	376	3	2.70								
RHODE ISLAND	4,107	499	333	20	4.01	576	392	1,855	10	2.55			
SOUTH CAROLINA	7,554	225	82	8	3.56	60	74	3,379	1	1.35			
SOUTH DAKOTA	6,743	829	337	21	2.53								
TENNESSEE	20,739	2,206	291	115	5.21	3,707	4,228	3,125	112	2.65			
TEXAS	4,878	178	100	37	20.79	295	256	2,378	2	0.78			
UTAH	2,559	360	418	13	3.61								
VIRGINIA	7,373	523	343	69	7.48	23	13	1,549	0	0.00			
WASHINGTON	2,210	330	409	14	4.24	7	9	2,523	0	0.00			
WEST VIRGINIA	6,698	968	396	19	1.96	531	404	2,084	4	0.99			
WISCONSIN	7,560	502	182	28	5.58	47	40	2,332	0	0.00			
WYOMING													
SUBTOTAL	282,976	38,878	376	1,776	4.57	15,801	16,177	2,822	352	2.16			
INCOMPLETE DATA													
ARKANSAS													
CONNECTICUT													
FLORIDA													
GEORGIA													
LOUISIANA													
MARYLAND													
MISSISSIPPI													
NEW HAMPSHIRE													
OKLAHOMA													
VERMONT													

λ FATALITIES PER 100 MILLION VEHICLE MILES.

TABLE 5-G. FATALITIES BY STATE AND HIGHWAY SYSTEM - 1982
NONFEDERAL-AID LOCAL 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 λ				NUMBER	RATE λ	
COMPLETE DATA											
ALABAMA	49,782	2,724	153	260	9,710	2,738	773	145	5.30		
ALASKA	2,784	369	362	11	999	270	740	2	0.74		
ARIZONA	59,065	1,613	80	62	6,437	1,310	558	41	3.13		
ARKANSAS	44,857	1,084	65	72	4,706	1,644	375	33	5.12		
CALIFORNIA	75,850	4,234	151	210	40,858	4,200	288	244	5.67		
COLORADO	41,732	1,417	93	28	6,442	2,613	1,111	17	0.65		
DELAWARE	2,759	347	345	15	955	330	947	3	0.91		
DIST. OF COL.	-	-	-	-	673	581	2,365	1	0.17		
HAWAII	1,770	296	458	3	897	787	2,404	8	1.02		
IDAHO	54,034	748	38	37	1,489	553	1,018	10	1.81		
ILLINOIS	75,974	3,237	115	120	11,418	5,371	815	156	2.45		
INDIANA	49,009	1,759	98	98	11,759	3,252	758	52	1.60		
IOWA	65,466	1,505	53	54	5,005	1,011	553	16	1.56		
KANSAS	83,420	1,218	40	61	5,833	1,275	599	25	1.98		
KENTUCKY	41,175	1,805	120	31	4,475	1,014	521	26	2.56		
MAINE	12,000	657	150	25	1,349	230	467	6	2.51		
MASSACHUSETTS	8,068	461	157	71	12,936	2,805	594	137	4.88		
MICHIGAN	60,033	1,155	53	280	15,490	1,918	319	288	15.02		
MINNESOTA	80,260	2,233	77	50	9,008	2,109	641	14	0.86		
MISSOURI	73,985	2,082	77	71	8,894	1,876	270	51	5.82		
MONTANA	46,559	616	36	24	1,666	699	1,150	4	0.57		
NEBRASKA	57,131	1,119	54	40	3,044	508	457	13	2.56		
NEVADA	34,440	1,119	21	11	1,601	403	690	7	1.74		
NEW JERSEY	7,385	752	279	38	15,628	9,541	1,673	82	0.85		
NEW MEXICO	37,855	717	54	48	3,205	1,008	862	22	2.18		
NEW YORK	46,575	5,121	288	126	25,534	9,238	991	152	1.69		
NORTH CAROLINA	51,365	2,959	160	222	11,755	3,477	910	56	1.51		
NORTH DAKOTA	59,894	707	32	15	979	204	571	3	1.47		
OHIO	55,892	6,168	297	171	19,743	11,434	1,587	132	1.07		
OREGON	102,936	1,353	35	28	5,835	885	415	18	2.03		
PENNSYLVANIA	61,416	5,485	245	118	19,002	5,272	760	220	4.17		
RHODE ISLAND	2,018	289	292	3	2,576	819	871	15	1.83		
SOUTH CAROLINA	37,231	2,809	207	135	4,895	937	524	24	2.56		
SOUTH DAKOTA	45,890	524	31	19	1,009	213	578	12	5.53		
TENNESSEE	49,343	1,567	87	125	8,612	3,965	1,261	60	1.51		
TEXAS	141,815	4,637	90	331	44,976	17,351	1,057	268	1.54		
UTAH	25,563	4,578	55	3	3,555	1,230	922	20	1.63		
VIRGINIA	32,729	2,811	228	88	8,782	3,835	1,196	51	1.33		
WEST VIRGINIA	20,477	1,873	117	18	1,890	196	284	3	1.53		
WISCONSIN	67,401	1,311	53	106	9,262	2,828	837	67	2.37		
WYOMING	21,622	227	29	11	1,877	126	394	6	4.76		
SUBTOTAL	1,892,583	69,919	101	3,283	364,859	109,157	820	2,500	2.29		
INCOMPLETE DATA											
CONNECTICUT											
FLORIDA											
GEORGIA											
LOUISIANA											
MARYLAND											
MISSISSIPPI											
NEW HAMPSHIRE											
OKLAHOMA											
VERMONT											
WASHINGTON											

λ FATALITIES PER 100 MILLION VEHICLE MILES.

TABLE 6-B. NONFATAL INJURIES BY STATE AND HIGHWAY SYSTEM - 1982
OTHER FEDERAL-AID PRIMARY HIGHWAYS

STATE	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	RURAL				URBAN								
			DAILY VEHICLE MILES PER MILE	NONFATAL INJURIES		DAILY VEHICLE MILES PER MILE	NONFATAL INJURIES								
				NUMBER	RATE 1/		NUMBER	RATE 1/							
COMPLETE DATA															
ALABAMA	5,908	5,927	2,749	4,681	78.98	699	2,652	10,334	3,732	140.72					
ALASKA	1,532	973	1,025	480	83.77	16	84	14,384	275	327.38					
ARIZONA	3,315	3,172	2,621	2,380	75.03	166	1,143	18,824	4,529	356.24					
CALIFORNIA	5,819	17,544	4,923	17,147	97.18	1,381	28,027	55,602	18,502	67.40					
COLORADO	3,993	4,037	2,770	3,752	92.94	322	4,837	41,155	5,114	126.40					
DELAWARE	329	1,288	10,111	1,213	94.18	75	573	20,932	1,396	243.63					
DIST. OF COL.	-	-	-	-	-	158	1,373	23,808	4,127	300.58					
HAWAII	402	913	6,222	1,458	159.69	110	1,170	29,141	2,413	206.28					
IDAHO	2,575	1,580	1,681	2,072	131.14	39	144	10,116	10,418	291.01					
ILLINOIS	7,901	8,245	2,859	10,791	130.88	1,822	10,010	15,082	34,135	341.01					
INDIANA	4,190	7,018	4,589	11,402	162.47	795	3,933	13,534	1,191	30.28					
IOWA	8,193	5,785	1,934	4,896	84.63	677	2,071	8,381	6,542	315.89					
KANSAS	7,767	4,729	1,666	4,105	85.80	338	1,320	10,700	3,099	234.77					
KENTUCKY	3,234	4,365	3,797	5,905	129.35	429	2,424	15,480	4,252	175.41					
MAINE	1,834	2,000	2,988	2,718	133.90	159	587	10,115	1,855	317.72					
MASSACHUSETTS	1,015	2,597	7,010	1,699	65.42	1214	7,936	17,310	7,194	90.65					
MICHIGAN	4,684	8,059	4,714	17,480	216.90	472	9,924	21,821	5,058	50.57					
MINNESOTA	8,842	6,947	2,153	5,071	73.00	565	2,371	13,752	4,234	124.22					
MISSOURI	6,332	6,670	2,868	5,742	86.09	105	3,460	16,778	4,298	189.00					
MONTANA	5,330	2,126	1,081	2,512	122.86	262	1,098	10,804	790	333.06					
NEBRASKA	6,939	3,580	1,401	2,926	81.73	58	338	11,482	3,156	46.15					
NEVADA	946	946	1,450	1,110	117.34	58	338	15,265	1,556	203.26					
NEW JERSEY	1,787	3,113	10,674	4,931	158.40	641	8,321	35,565	16,913	203.26					
NEW MEXICO	3,334	2,748	2,218	2,617	95.23	128	666	10,487	3,567	535.59					
NEW YORK	6,488	8,946	3,772	2,617	382.05	1,864	17,381	25,547	36,716	211.24					
NORTH DAKOTA	5,444	1,711	858	1,153	67.39	128	400	8,562	1,029	257.25					
OHIO	4,756	8,890	5,078	11,900	133.86	1,530	5,994	10,733	25,176	420.02					
OREGON	4,600	4,445	2,647	5,309	123.81	358	2,203	16,855	4,974	225.78					
PENNSYLVANIA	8,097	14,631	4,451	19,731	134.86	1,833	11,819	17,665	21,222	179.56					
SOUTH CAROLINA	5,074	6,516	3,518	4,244	65.13	412	2,703	10,207	5,133	189.50					
SOUTH DAKOTA	5,738	2,356	1,125	1,502	63.75	113	421	13,746	1,145	271.97					
TENNESSEE	5,082	6,484	3,496	6,569	102.85	803	4,029	10,700	8,084	200.65					
TEXAS	15,067	19,148	3,482	14,924	77.94	1,570	12,682	22,131	22,784	132.60					
UTAH	2,473	1,535	1,701	1,868	123.00	103	454	12,076	602	152.86					
VIRGINIA	4,953	8,280	4,580	8,946	108.04	443	3,292	20,359	5,032	152.86					
WASHINGTON	4,447	5,264	3,255	2,234	42.28	530	3,702	19,137	2,056	53.54					
WEST VIRGINIA	2,253	2,573	3,129	6,113	237.58	180	755	11,492	2,076	274.97					
WISCONSIN	7,982	8,982	3,085	8,205	91.35	967	4,589	13,002	8,463	184.42					
WYOMING	2,888	1,448	1,374	1,276	88.12	92	365	10,870	766	209.85					
SUBTOTAL	185,763	205,491	3,031	245,659	119.55	22,850	165,669	19,864	284,115	171.50					
INCOMPLETE DATA															
ARKANSAS															
CONNECTICUT															
FLORIDA															
GEORGIA															
LOUISIANA															
MARYLAND															
MISSISSIPPI															
NEW HAMPSHIRE															
NORTH CAROLINA															
OKLAHOMA															
RHODE ISLAND															
VERMONT															

1/ NONFATAL INJURED PERSONS PER 100 MILLION VEHICLE MILES.

TABLE 6-C. NONFATAL INJURIES BY STATE AND HIGHWAY SYSTEM - 1982
FEDERAL-AID URBAN HIGHWAYS

STATE	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	ARTERIAL				COLLECTOR							
			DAILY VEHICLE MILES PER MILE	NONFATAL INJURIES		DAILY VEHICLE MILES PER MILE	NONFATAL INJURIES							
				NUMBER	RATE λ		NUMBER	RATE λ						
COMPLETE DATA														
ALASKA	81	447	15,119	1,650	369.13	29	77	7,274	247	320.78				
ARIZONA	1,162	4,299	10,136	19,880	462.43	525	911	4,718	1,867	204.64				
CALIFORNIA	11,425	53,716	12,881	120,357	224.06	4,271	5,371	3,445	20,373	203.63				
COLORADO	1,330	2,610	5,376	12,994	497.85	952	823	2,368	2,103	255.53				
DELAWARE	154	591	10,514	1,686	285.28	117	215	5,035	407	189.30				
DIST. OF COL.	107	641	15,413	2,734	426.52	136	321	6,467	1,847	575.39				
HAWAII	125	952	20,700	2,950	310.92	56	269	13,160	995	369.89				
IDAHO	268	955	9,804	2,450	293.95	304	494	4,452	627	126.92				
ILLINOIS	3,497	13,047	10,340	40,080	307.50	2,950	5,620	5,219	15,634	278.18				
INDIANA	2,952	6,625	6,149	11,218	169.33	1,802	1,511	2,297	6,481	428.92				
IOWA	1,313	2,264	4,724	4,105	181.32	905	624	1,889	844	135.26				
KANSAS	1,052	2,467	6,425	6,532	264.77	477	273	1,558	617	226.01				
KENTUCKY	1,032	3,352	8,925	8,098	109.56	727	1,087	4,056	2,196	202.02				
MAINE	342	787	5,305	863	158.54	308	233	2,073	5,403	190.13				
MASSACHUSETTS	3,322	9,948	8,204	15,772	158.54	2,483	2,449	2,702	5,443	220.62				
MICHIGAN	2,908	12,735	11,998	13,957	109.50	1,920	3,523	5,027	1,863	52.88				
MINNESOTA	1,488	4,700	6,993	5,387	214.32	554	439	2,171	953	217.08				
MISSOURI	2,428	6,197	5,445	1,186	86.93	1,249	1,245	2,731	1,489	5.22				
MONTANA	238	473	6,849	5,623	367.52	92	50	1,489	190	380.00				
NEBRASKA	612	1,530	6,849	5,623	285.79	347	348	2,748	1,161	333.62				
NEVADA	442	1,971	12,217	5,620	447.10	63	32	1,332	1,125	390.63				
NEW JERSEY	3,547	12,534	9,681	56,040	471.19	1,812	3,015	4,559	10,824	359.00				
NEW MEXICO	477	1,917	11,011	6,924	416.03	133	208	4,285	996	478.85				
NEW YORK	5,101	13,885	7,458	57,766	249.26	2,840	3,480	3,357	6,614	190.06				
NORTH DAKOTA	197	337	4,587	840	643.54	197	157	2,183	385	245.22				
OHIO	3,394	7,000	5,651	45,048	405.51	3,893	3,904	2,727	20,191	517.19				
OREGON	992	2,633	7,272	10,677	197.41	872	860	2,702	2,829	305.70				
PENNSYLVANIA	3,642	11,307	8,506	22,321	170.07	3,059	3,765	3,376	3,614	155.65				
SOUTH CAROLINA	511	1,450	6,502	2,466	198.18	194	230	1,437	195	453.49				
TENNESSEE	259	4,056	3,491	11,259	274.88	82	43	3,159	2,859	225.55				
TEXAS	1,234	4,096	9,094	6,305	147.54	1,091	1,262	5,759	1,568	107.79				
UTAH	494	19,721	12,639	29,096	276.66	1,284	1,335	4,452	3,240	262.65				
VIRGINIA	1,898	7,603	10,975	19,305	253.93	977	1,253	3,514	4,609	258.58				
WASHINGTON	2,185	5,589	7,008	37,241	566.33	1,654	1,488	3,227	522	309.74				
WEST VIRGINIA	385	1,035	7,365	3,438	332.17	399	470	2,125	1,059	111.06				
WISCONSIN	1,948	4,352	6,177	4,531	103.16	815	632	2,125	1,059	167.56				
WYOMING	227	368	4,441	440	119.57	200	178	2,438	234	131.46				
SUBTOTAL	68,322	226,797	9,095	607,570	267.89	40,206	48,796	3,325	115,069	235.82				
INCOMPLETE DATA														
ALABAMA														
ARKANSAS														
CONNECTICUT														
FLORIDA														
GEORGIA														
LOUISIANA														
MARYLAND														
MISSISSIPPI														
NEW HAMPSHIRE														
NORTH CAROLINA														
OKLAHOMA														
RHODE ISLAND														
VERMONT														

λ NONFATAL INJURED PERSONS PER 100 MILLION VEHICLE MILES.

**TABLE 6-D. NONFATAL INJURIES
BY STATE AND HIGHWAY SYSTEM - 1982
FEDERAL-AID SECONDARY HIGHWAYS**

STATE	COLLECTOR, RURAL				NONFATAL INJURIES	
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NUMBER	RATE 1/	
COMPLETE DATA						
ALASKA	2,324	720	849	856	118.89	
ARIZONA	3,136	1,555	1,359	1,667	107.20	
CALIFORNIA	11,103	7,715	1,904	22,897	296.79	
COLORADO	3,441	1,140	908	1,878	164.74	
DELAWARE	630	489	2,127	1,653	133.54	
DIST. OF COL.	-	-	-	-	-	
HAWAII	434	301	1,900	685	227.57	
IDAHO	4,250	1,738	1,120	1,410	81.13	
ILLINOIS	12,856	3,287	700	5,496	167.20	
INDIANA	9,093	3,536	1,065	3,466	98.02	
IOWA	13,341	2,299	472	2,201	139.23	
KANSAS	22,530	2,164	263	2,120	97.97	
KENTUCKY	7,295	3,857	1,449	6,937	173.85	
MAINE	2,742	1,290	1,289	1,750	135.66	
MASSACHUSETTS	2,006	1,583	2,162	1,511	95.45	
MICHIGAN	19,019	8,637	1,244	785	9.09	
MINNESOTA	16,281	3,037	511	3,346	110.17	
MISSOURI	18,090	4,660	706	5,571	119.55	
MONTANA	4,717	423	246	618	146.10	
NEBRASKA	11,411	1,046	251	1,331	127.25	
NEVADA	2,332	662	778	1,010	152.57	
NEW JERSEY	1,731	2,173	3,439	4,728	217.58	
NEW MEXICO	3,945	1,085	754	1,793	165.25	
NEW YORK	6,381	3,836	1,647	19,571	512.80	
NORTH DAKOTA	10,455	675	177	563	83.41	
OHIO	11,826	7,122	1,650	14,253	200.13	
OREGON	7,709	1,622	576	3,003	185.14	
PENNSYLVANIA	8,222	5,219	1,739	8,739	167.45	
SOUTH CAROLINA	8,863	4,081	1,262	3,245	179.51	
SOUTH DAKOTA	10,867	894	1,225	647	72.37	
TENNESSEE	9,820	3,656	1,020	4,697	128.47	
TEXAS	32,705	12,048	1,009	13,919	115.53	
UTAH	2,556	681	681	917	144.41	
VIRGINIA	10,360	4,759	1,259	7,985	167.79	
WASHINGTON	7,061	2,501	968	1,038	41.50	
WEST VIRGINIA	6,327	2,740	1,185	6,497	237.12	
WISCONSIN	11,737	3,762	876	8,248	219.25	
WYOMING	2,281	400	480	457	114.25	
SUBTOTAL	319,897	107,347	919	167,588	156.12	
INCOMPLETE DATA						
ALABAMA						
ARKANSAS						
CONNECTICUT						
FLORIDA						
GEORGIA						
LOUISIANA						
MARYLAND						
MISSISSIPPI						
NEW HAMPSHIRE						
NORTH CAROLINA						
OKLAHOMA						
RHODE ISLAND						
VERMONT						

1/ NONFATALLY INJURED PERSONS PER 100 MILLION VEHICLE MILES.

TABLE 6-E. NONFATAL INJURIES BY STATE AND HIGHWAY SYSTEM - 1982
NONFEDERAL-AID ARTERIAL HIGHWAYS

STATE	RURAL				STATE	URBAN			
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	NONFATAL INJURIES			HIGHWAY MILES	VEHICLE MILES (MILLIONS)	NONFATAL INJURIES	
			NUMBER	RATE \downarrow				NUMBER	RATE \downarrow
COMPLETE DATA					COMPLETE DATA				
ALABAMA					ALABAMA				
ARIZONA	15	17	3,105	17	ARIZONA	22	85	10,585	90
CALIFORNIA	31	73	6,452	250	CALIFORNIA	1,279	5,380	11,524	5,914
COLORADO					COLORADO	4	5	3,425	99
DELAWARE	1	1	2,740	10	DELAWARE	3	4	3,653	1
DIST. OF COL.					DIST. OF COL.	11	94	23,412	445
GEORGIA					GEORGIA				
HAWAII	10	44	12,055	116	HAWAII	13	56	11,802	163
IDAHO					IDAHO	28	5	489	0
ILLINOIS					ILLINOIS	79	118	4,092	344
INDIANA	35	71	5,558	0	INDIANA	12	177	40,411	32
IOWA	48	61	3,482	57	IOWA	15	27	4,932	0
KANSAS					KANSAS	210	610	7,958	2,655
KENTUCKY					KENTUCKY	1	1	2,740	6
LOUISIANA					LOUISIANA	15	43	7,854	1,411
MAINE	41	72	4,811	49	MAINE	18	54	8,219	57
MASSACHUSETTS					MASSACHUSETTS	163	330	5,547	547
MICHIGAN					MICHIGAN	66	37	1,536	240
MINNESOTA					MINNESOTA	35	48	3,757	101
MISSOURI	9	8	2,435	37	MISSOURI	11	28	6,974	26
MONTANA	93	17	501	17	NEVADA	282	3,327	32,323	2,571
NEBRASKA					NEBRASKA	100	126	3,452	238
NEVADA	1	4	10,959	8	NEW JERSEY	124	1,423	31,441	1,575
NEW JERSEY	139	1,208	23,810	784	NEW MEXICO				
NEW MEXICO					NEW MEXICO				
NEW YORK					NORTH DAKOTA				
NORTH DAKOTA					NORTH DAKOTA				
OHIO					OHIO				
OREGON	210	126	1,644	195	OREGON	55	112	5,579	129
PENNSYLVANIA					PENNSYLVANIA				
RHODE ISLAND					RHODE ISLAND				
SOUTH CAROLINA					SOUTH CAROLINA	296	463	4,285	986
SOUTH DAKOTA					SOUTH DAKOTA	7	7	2,740	0
TENNESSEE	14	6	1,174	6	TENNESSEE				
TEXAS					TEXAS	1,846	5,361	7,956	1,834
UTAH	1	1	2,740	3	UTAH	58	45	2,126	70
VERMONT	309	219	1,942	4	VERMONT				
VIRGINIA	17	2	322	0	VIRGINIA	54	275	13,952	19
WEST VIRGINIA	8	27	9,247	5	WEST VIRGINIA	3	18	16,438	25
WISCONSIN	251	104	1,135	0	WISCONSIN	145	293	5,935	353
WYOMING					WYOMING	2	12	16,438	0
SUBTOTAL	1,233	2,061	4,580	1,558	SUBTOTAL	4,961	18,569	10,255	19,932
INCOMPLETE DATA					INCOMPLETE DATA				
ARKANSAS					ARKANSAS				
CONNECTICUT					CONNECTICUT				
FLORIDA					FLORIDA				
MARYLAND					MARYLAND				
MISSISSIPPI					MISSISSIPPI				
NEW HAMPSHIRE					NEW HAMPSHIRE				
NORTH CAROLINA					NORTH CAROLINA				
OKLAHOMA					OKLAHOMA				
WASHINGTON					WASHINGTON				
\downarrow NONFATAL INJURED PERSONS PER 100 MILLION VEHICLE MILES.									

TABLE 6-F. NONFATAL INJURIES BY STATE AND HIGHWAY SYSTEM - 1982
NONFEDERAL-AID COLLECTOR HIGHWAYS

STATE	RURAL				STATE	URBAN					
	HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURIES		HIGHWAY MILES	VEHICLE MILES (MILLIONS)	DAILY VEHICLE MILES PER MILE	NONFATAL INJURIES		
				NUMBER					RATE 1/	NUMBER	RATE 1/
COMPLETE DATA					COMPLETE DATA						
ALASKA	1,001	245	571	267	ALASKA	27	27	2,740	83	307.41	
ARIZONA	4,840	692	392	391	ARIZONA	459	559	3,337	1,515	271.02	
CALIFORNIA	12,112	3,077	696	13,801	CALIFORNIA	2,496	2,766	3,036	6,154	222.49	
COLORADO	16,246	1,367	231	2,965	COLORADO	35	25	1,957	133	532.00	
DELAWARE	16,164	59	1,153	103	DELAWARE	21	4	522	43	1,075.00	
DIST. OF COL.					DIST. OF COL.	5	10	5,479	57	570.00	
HAWAII	231	220	2,609	279	GEORGIA						
IDAHO	4,740	222	1,248	263	HAWAII	87	220	6,928	199	90.45	
ILLINOIS	5,062	1,931	1,045	1,636	IDAHO	65	5	211	0	0.00	
INDIANA	10,850	2,297	580	2,956	ILLINOIS	175	115	1,800	544	473.04	
IOWA	16,472	688	114	1,152	INDIANA	43	131	8,347	66	50.38	
KANSAS	9,430	288	463	231	IOWA	65	33	1,391	54	163.64	
KENTUCKY	9,386	1,987	561	3,141	KANSAS	294	320	2,982	917	286.56	
MAINE	2,814	576	621	1,121	KENTUCKY	123	170	2,672	333	277.50	
MASSACHUSETTS	1,954	443	621	975	MAINE	36	17	1,294	305	1,794.12	
MICHIGAN	7,828	1,534	537	12,861	MASSACHUSETTS	232	156	1,842	183	117.31	
MINNESOTA	12,143	930	210	1,036	MICHIGAN	2,003	2,449	3,350	1,242	50.71	
MISSOURI	5,456	278	140	338	MINNESOTA	1,227	1,468	3,278	3,435	233.99	
MONTANA	11,191	300	72	582	MONTANA	117	64	1,499	83	129.69	
NEBRASKA	11,614	321	76	614	NEBRASKA						
NEVADA	2,416	136	154	148	NEVADA	162	128	2,155	734	573.44	
NEW JERSEY	1,294	1,084	2,295	1,723	NEW JERSEY	95	30	865	209	696.67	
NEW MEXICO	3,214	288	246	358	NEW MEXICO	255	276	2,965	720	260.87	
NEW YORK	11,002	4,159	1,038	17,540	NEW YORK	377	474	3,445	589	124.26	
NORTH DAKOTA	9,131	207	70	182	NORTH DAKOTA	21	14	1,826	54	385.71	
OHIO	7,539	1,840	669	3,981	OHIO						
OREGON	9,380	1,037	303	605	OREGON	180	128	1,948	413	322.66	
PENNSYLVANIA	9,196	2,364	704	4,467	PENNSYLVANIA						
SOUTH CAROLINA	4,107	499	333	329	RHODE ISLAND						
SOUTH DAKOTA	7,554	225	82	167	RHODE ISLAND	576	392	1,855	577	147.19	
TENNESSEE	6,743	829	337	434	SOUTH CAROLINA	60	74	3,379	0	0.00	
TEXAS	20,739	2,206	291	1,896	TENNESSEE						
UTAH	4,878	178	100	1,945	TEXAS	3,707	4,238	3,125	61	187.11	
VIRGINIA	2,359	360	418	764	UTAH	295	256	2,378	479	187.11	
WASHINGTON	7,373	923	343	489	VERMONT						
WEST VIRGINIA	2,210	330	409	580	VIRGINIA	23	13	1,549	33	253.85	
WISCONSIN	6,698	968	395	557	WEST VIRGINIA	7	9	3,523	37	411.11	
WYOMING	7,560	502	182	285	WISCONSIN	531	404	2,084	706	174.75	
SUBTOTAL	265,925	35,190	363	80,462	WYOMING	47	40	2,332	1	2.50	
INCOMPLETE DATA					SUBTOTAL	13,846	14,985	2,959	19,959	133.46	
ALABAMA					INCOMPLETE DATA						
ARKANSAS					ALABAMA						
CONNECTICUT					ARKANSAS						
FLORIDA					CONNECTICUT						
GEORGIA					FLORIDA						
LOUISIANA					LOUISIANA						
MARYLAND					MARYLAND						
MISSISSIPPI					MISSISSIPPI						
NEW HAMPSHIRE					NEW HAMPSHIRE						
NORTH CAROLINA					NORTH CAROLINA						
OKLAHOMA					OKLAHOMA						
RHODE ISLAND					RHODE ISLAND						
VERMONT					VERMONT						

1/ 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 - 1982

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)											
RURAL	32,879	142,186	11,848	1,861	56.60	36,140	1,099.2	2,175	66.15	58,191	1,769.9
URBAN	9,581	175,459	50,173	1,704	177.85	81,180	8,473.0	1,878	196.01	121,450	12,676.1
TOTAL	42,460	317,645	20,456	3,565	83.96	117,320	2,763.1	4,053	95.45	179,641	4,230.8
OTHER FEDERAL-AID PRIMARY (ARTERIAL)											
RURAL	226,111	266,296	3,226	8,632	38.18	193,049	853.8	10,236	45.27	323,062	1,428.8
URBAN	29,648	204,777	18,523	3,497	117.95	232,351	7,837.0	3,862	130.26	356,383	12,020.5
TOTAL	255,759	471,073	5,046	12,129	47.42	425,400	1,663.3	14,098	55.12	679,445	2,656.6
FEDERAL-AID URBAN ARTERIAL COLLECTOR											
TOTAL (ALL URBAN)	82,083	276,674	9,238	6,677	81.37	502,987	6,130.0	7,391	90.08	752,137	9,166.5
FEDERAL-AID SECONDARY (COLLECTOR)											
TOTAL (ALL RURAL)	401,999	145,172	989	5,556	13.85	143,728	357.5	6,291	15.65	229,993	572.1
NON-FEDERAL-AID ARTERIAL RURAL											
TOTAL	3,786	3,762	2,722	65	17.17	1,460	385.6	83	21.92	2,886	762.3
NON-FEDERAL-AID COLLECTOR RURAL											
TOTAL	8,088	24,200	8,157	720	89.02	17,769	2,197.0	765	94.58	26,360	3,259.1
NON-FEDERAL-AID LOCAL RURAL											
TOTAL	11,874	27,962	6,461	785	56.11	15,229	1,619.4	848	71.42	28,246	2,463.0
ALL FEDERAL-AID RURAL											
TOTAL	336,925	49,858	405	2,075	6.17	79,448	235.1	2,324	6.91	115,397	342.9
NON-FEDERAL-AID LOCAL RURAL											
TOTAL	18,115	20,098	3,029	401	22.14	18,783	1,026.9	443	24.45	27,220	1,502.6
ALL FEDERAL-AID URBAN											
TOTAL	354,640	59,957	540	2,476	6.98	98,231	277.0	2,767	7.80	142,617	402.1
ALL FEDERAL-AID RURAL											
TOTAL	2,224,440	83,411	102	3,532	1.63	163,118	73.3	3,957	1.80	234,379	105.4
ALL FEDERAL-AID URBAN											
TOTAL	441,524	136,373	846	3,025	5.85	389,776	862.6	3,194	7.21	540,947	1,224.9
ALL NON-FEDERAL-AID RURAL											
TOTAL	2,666,064	219,784	225	6,859	2.50	552,894	207.4	7,181	2.69	775,326	290.8
ALL NON-FEDERAL-AID URBAN											
TOTAL	660,989	593,654	2,294	16,059	24.30	372,917	564.2	18,702	28.29	611,246	924.7
ALL NON-FEDERAL-AID RURAL											
TOTAL	172,729	721,124	11,438	13,020	75.88	925,324	5,357.1	14,348	83.07	1,383,637	8,010.4
ALL NON-FEDERAL-AID URBAN											
TOTAL	833,718	1,274,778	4,189	29,079	34.88	1,298,241	1,597.2	33,050	39.64	1,994,883	2,392.8
ALL NON-FEDERAL-AID RURAL											
TOTAL	2,564,751	137,031	146	5,773	2.25	244,026	95.1	6,404	2.50	352,652	137.5
ALL NON-FEDERAL-AID URBAN											
TOTAL	457,827	180,672	1,058	4,147	8.86	426,328	911.3	4,392	9.39	594,527	1,270.8
NON-INTERSTATE RURAL											
TOTAL	3,082,578	317,703	287	9,920	3.27	670,354	221.1	10,796	3.56	947,189	312.3
NON-INTERSTATE URBAN											
TOTAL	3,192,861	548,499	470	19,971	6.25	580,803	181.9	22,931	7.18	905,717	283.7
NON-INTERSTATE RURAL											
TOTAL	630,975	726,337	3,153	15,463	24.51	1,270,472	2,043.5	16,852	26.72	1,656,714	2,942.5
NON-INTERSTATE URBAN											
TOTAL	3,823,836	1,274,836	913	35,434	9.27	1,851,275	484.1	39,793	10.41	2,762,431	772.4
TOTAL RURAL											
TOTAL URBAN											
TOTAL											

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 1982. FEDERAL-AID HIGHWAY MILEAGE IS FROM HPMS UNIVERSE DATA AS OF SEPTEMBER 30, 1983 AND VEHICLE-MILES OF TRAVEL ARE FROM THE HPMS AREAWIDE SUMMARY TABLES AS OF SEPTEMBER 30, 1983. 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 1000 HIGHWAY MILES.

4/ TOTALS OF NON-FATAL INJURY ACCIDENTS AND NON-FATAL INJURED PERSONS WERE ESTIMATED BY FHWA FOR ALASKA, CONNECTICUT, FLORIDA, LOUISIANA, MARYLAND, MISSISSIPPI, NEW HAMPSHIRE, RHODE ISLAND, VERMONT, AND FOR THE NON-STATE MILEAGE OF MISSOURI.

**TABLE 8. FATAL AND INJURY ACCIDENT DATA
RELATED TO POPULATION - 1982**

STATE	POPULATION		RATES PER THOUSAND PERSONS			
	NUMBER (THOUSANDS)	VEHICLE MILES PER CAPITA	FATAL ACCIDENT RATE	FATALITY RATE	INJURY ACCIDENT RATE	INJURY RATE
ALABAMA	3,943	7,232	0.19	0.21	5.73	8.22
ALASKA	438	8,452	0.21	0.24	9.34	13.81
ARIZONA	2,860	5,898	0.22	0.25	10.13	16.01
ARKANSAS	2,291	7,259	0.21	0.24	6.99	10.91
CALIFORNIA	24,724	6,876	0.17	0.19	7.48	11.09
COLORADO	3,045	7,811	0.20	0.22	8.70	12.78
CONNECTICUT	3,153	6,387	0.15	0.15	1/ 0.00	1/ 0.00
DELAWARE	602	7,626	0.19	0.20	7.88	11.94
DIST. OF COL.	631	5,357	0.06	0.06	14.46	21.42
FLORIDA	10,416	7,632	0.22	0.24	1/ 0.00	1/ 0.00
GEORGIA	5,639	8,642	0.19	0.22	7.21	10.73
HAWAII	994	6,085	0.14	0.16	8.56	12.14
IDAHO	955	8,142	0.22	0.26	7.35	11.41
ILLINOIS	11,448	5,751	0.13	0.14	9.14	13.65
INDIANA	5,471	7,166	0.15	0.17	7.68	11.20
IOWA	2,905	6,658	0.15	0.17	6.17	8.92
KANSAS	2,408	7,333	0.18	0.21	8.24	12.42
KENTUCKY	3,667	6,989	0.20	0.22	7.35	11.06
LOUISIANA	4,362	6,167	0.22	0.25	1/ 0.00	1/ 0.00
MAINE	1,133	6,751	0.13	0.15	8.55	12.40
MARYLAND	4,265	6,781	0.13	0.15	1/ 0.00	1/ 0.00
MASSACHUSETTS	5,781	6,343	0.11	0.11	5.97	8.08
MICHIGAN	9,109	6,719	0.14	0.15	9.59	14.28
MINNESOTA	4,133	7,059	0.12	0.14	5.94	8.67
MISSISSIPPI	2,551	6,721	0.24	0.29	1/ 0.00	1/ 0.00
MISSOURI	4,951	7,070	0.16	0.18	1/ 0.00	1/ 0.00
MONTANA	801	8,326	0.27	0.32	7.65	11.63
NEBRASKA	1,586	7,210	0.14	0.15	8.37	12.51
NEVADA	881	7,279	0.28	0.32	8.56	12.93
NEW HAMPSHIRE	951	7,330	0.16	0.18	1/ 0.00	1/ 0.00
NEW JERSEY	7,438	6,965	0.13	0.15	11.01	16.34
NEW MEXICO	1,359	8,720	0.36	0.42	10.94	17.11
NEW YORK	17,559	4,558	0.11	0.12	9.67	14.32
NORTH CAROLINA	6,019	7,161	0.19	0.22	8.82	13.93
NORTH DAKOTA	670	7,839	0.19	0.22	5.77	8.66
OHIO	10,791	6,649	0.13	0.15	9.70	15.26
OKLAHOMA	3,177	9,446	0.29	0.34	7.57	11.25
OREGON	2,649	7,317	0.18	0.20	8.04	13.07
PENNSYLVANIA	11,865	6,010	0.14	0.15	7.05	10.53
RHODE ISLAND	958	6,167	0.10	0.11	1/ 0.00	1/ 0.00
SOUTH CAROLINA	3,203	7,562	0.21	0.23	4.90	7.19
SOUTH DAKOTA	691	9,205	0.19	0.21	6.07	8.93
TENNESSEE	4,651	7,481	0.20	0.23	7.34	10.59
TEXAS	15,280	8,195	0.24	0.28	8.89	13.39
UTAH	1,554	7,030	0.17	0.19	7.42	11.38
VERMONT	516	7,738	0.18	0.21	1/ 0.00	1/ 0.00
VIRGINIA	5,491	7,545	0.14	0.16	7.36	10.80
WASHINGTON	4,245	7,363	0.16	0.18	9.18	12.21
WEST VIRGINIA	1,948	5,612	0.21	0.24	8.31	13.27
WISCONSIN	4,765	6,882	0.14	0.16	7.64	11.09
WYOMING	502	520	0.34	0.40	7.59	11.63
U.S. TOTAL	231,535	6,878	0.17	0.19	7.10	10.59

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

**TABLE 9. FATAL AND INJURY ACCIDENT DATA
RELATED TO LICENSED DRIVERS - 1982**

STATE	LICENSED DRIVERS		RATES PER THOUSAND DRIVERS			
	NUMBER (THOUSANDS)	VEHICLE MILES PER DRIVER	FATAL ACCIDENT RATE	FATALITY RATE	INJURY ACCIDENT RATE	INJURY RATE
ALABAMA	2,316	12,313	0.32	0.36	9.75	13.99
ALASKA	321	11,533	0.29	0.32	12.74	18.84
ARIZONA	2,086	9,458	0.30	0.35	13.89	21.95
ARKANSAS	1,591	10,453	0.30	0.34	10.06	15.72
CALIFORNIA	16,299	10,430	0.25	0.28	11.35	16.82
COLORADO	2,182	10,901	0.27	0.31	12.14	17.84
CONNECTICUT	2,235	9,010	0.21	0.23	1/ 0.00	1/ 0.00
DELAWARE	433	10,603	0.27	0.28	10.95	16.60
DIST. OF COL.	385	8,779	0.09	0.09	23.71	35.11
FLORIDA	7,979	9,963	0.29	0.31	1/ 0.00	1/ 0.00
GEORGIA	3,605	13,518	0.30	0.34	11.27	16.78
HAWAII	561	10,781	0.26	0.28	15.17	21.52
IDAHO	663	11,851	0.32	0.38	10.72	16.60
ILLINOIS	6,965	9,452	0.21	0.24	15.03	22.44
INDIANA	3,345	11,720	0.25	0.29	12.55	18.32
IOWA	1,927	10,037	0.22	0.25	9.31	13.44
KANSAS	1,694	10,424	0.26	0.29	11.71	17.65
KENTUCKY	2,141	11,970	0.34	0.38	12.59	18.94
LOUISIANA	2,540	10,591	0.38	0.43	1/ 0.00	1/ 0.00
MAINE	757	10,104	0.20	0.22	12.80	18.56
MARYLAND	2,741	10,551	0.21	0.23	1/ 0.00	1/ 0.00
MASSACHUSETTS	3,641	10,070	0.17	0.18	9.48	12.83
MICHIGAN	6,390	9,577	0.20	0.22	13.68	20.35
MINNESOTA	2,397	12,172	0.21	0.24	10.25	14.96
MISSISSIPPI	1,734	9,888	0.36	0.42	1/ 0.00	1/ 0.00
MISSOURI	3,297	10,617	0.24	0.27	1/ 0.00	1/ 0.00
MONTANA	492	13,555	0.44	0.52	12.45	18.93
NEBRASKA	1,084	10,549	0.21	0.24	12.25	18.30
NEVADA	655	9,791	0.38	0.43	11.51	17.38
NEW HAMPSHIRE	677	10,297	0.23	0.26	1/ 0.00	1/ 0.00
NEW JERSEY	5,338	9,704	0.19	0.20	15.35	22.76
NEW MEXICO	943	12,566	0.52	0.61	15.76	24.66
NEW YORK	8,992	8,951	0.22	0.24	18.98	28.13
NORTH CAROLINA	3,903	11,043	0.30	0.33	13.60	21.49
NORTH DAKOTA	428	12,271	0.30	0.35	9.04	13.55
OHIO	7,669	9,356	0.19	0.21	13.65	21.48
OKLAHOMA	2,039	14,718	0.45	0.52	11.79	17.53
OREGON	1,894	10,234	0.24	0.27	11.25	18.28
PENNSYLVANIA	7,351	9,701	0.22	0.25	11.38	17.00
RHODE ISLAND	600	9,847	0.16	0.18	1/ 0.00	1/ 0.00
SOUTH CAROLINA	1,959	12,364	0.34	0.37	8.01	11.75
SOUTH DAKOTA	486	13,088	0.27	0.30	8.63	12.70
TENNESSEE	2,902	11,989	0.33	0.36	11.76	16.97
TEXAS	10,154	12,332	0.36	0.41	13.38	20.16
UTAH	914	11,953	0.29	0.32	12.61	19.36
VERMONT	355	11,248	0.26	0.30	1/ 0.00	1/ 0.00
VIRGINIA	3,625	11,429	0.22	0.24	11.14	16.36
WASHINGTON	2,774	11,268	0.24	0.27	14.06	18.69
WEST VIRGINIA	1,411	7,748	0.29	0.33	11.47	18.32
WISCONSIN	3,036	10,802	0.22	0.25	12.00	17.40
WYOMING	398	13,269	0.43	0.51	9.58	14.66
U.S. TOTAL	150,309	10,595	0.26	0.29	10.93	16.31

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

**TABLE 10. FATAL AND INJURY ACCIDENT DATA
RELATED TO VEHICLE REGISTRATIONS - 1982**

STATE	REGISTERED VEHICLES		RATES PER THOUSAND VEHICLES			
	NUMBER (THOUSANDS)	VEHICLE MILES PER VEHICLE	FATAL ACCIDENT RATE	FATALITY RATE	INJURY ACCIDENT RATE	INJURY RATE
ALABAMA	3,039	9,303	0.24	0.28	7.43	10.66
ALASKA	319	11,605	0.29	0.32	12.82	18.96
ARIZONA	2,216	8,903	0.29	0.33	13.07	20.66
ARKANSAS	1,481	11,229	0.32	0.37	10.81	16.88
CALIFORNIA	17,130	9,924	0.24	0.27	10.80	16.00
COLORADO	2,502	9,507	0.24	0.27	10.59	15.56
CONNECTICUT	2,258	8,919	0.21	0.23	1/ 0.00	1/ 0.00
DELAWARE	415	11,063	0.28	0.29	11.43	17.32
DIST. OF COL.	231	14,632	0.15	0.16	39.51	58.52
FLORIDA	8,335	9,538	0.27	0.30	1/ 0.00	1/ 0.00
GEORGIA	3,916	12,444	0.28	0.31	10.38	15.45
HAWAII	586	10,321	0.25	0.27	14.53	20.60
IDAHO	873	9,000	0.24	0.29	8.14	12.61
ILLINOIS	7,242	9,091	0.20	0.23	14.46	21.58
INDIANA	3,884	10,093	0.22	0.25	10.81	15.78
IOWA	2,346	8,244	0.18	0.20	7.64	11.04
KANSAS	2,061	8,568	0.21	0.24	9.63	14.51
KENTUCKY	2,615	9,800	0.28	0.31	10.31	15.50
LOUISIANA	2,800	9,508	0.34	0.39	1/ 0.00	1/ 0.00
MAINE	743	10,295	0.20	0.23	13.04	18.91
MARYLAND	2,893	9,997	0.20	0.22	1/ 0.00	1/ 0.00
MASSACHUSETTS	3,750	9,778	0.16	0.17	9.20	12.46
MICHIGAN	6,250	9,792	0.20	0.22	13.98	20.81
MINNESOTA	3,278	8,901	0.15	0.17	7.49	10.94
MISSISSIPPI	1,593	10,763	0.39	0.46	1/ 0.00	1/ 0.00
MISSOURI	3,412	10,259	0.23	0.26	1/ 0.00	1/ 0.00
MONTANA	758	8,798	0.28	0.34	8.08	12.29
NEBRASKA	1,215	9,412	0.19	0.21	10.93	16.33
NEVADA	710	9,032	0.35	0.39	10.62	16.04
NEW HAMPSHIRE	774	9,006	0.20	0.22	1/ 0.00	1/ 0.00
NEW JERSEY	4,917	10,535	0.20	0.22	16.66	24.71
NEW MEXICO	1,193	9,933	0.41	0.48	12.46	19.49
NEW YORK	8,235	9,773	0.24	0.26	20.73	30.72
NORTH CAROLINA	4,583	9,404	0.26	0.28	11.58	18.30
NORTH DAKOTA	653	8,043	0.20	0.23	5.92	8.88
OHIO	7,636	9,396	0.19	0.21	13.71	21.57
OKLAHOMA	2,780	10,795	0.33	0.38	8.65	12.86
OREGON	2,075	9,342	0.22	0.25	10.26	16.68
PENNSYLVANIA	6,725	10,604	0.24	0.27	12.44	18.58
RHODE ISLAND	586	10,082	0.17	0.18	1/ 0.00	1/ 0.00
SOUTH CAROLINA	1,975	12,264	0.34	0.37	7.94	11.66
SOUTH DAKOTA	615	10,343	0.21	0.24	6.82	10.04
TENNESSEE	3,381	10,291	0.28	0.31	10.10	14.57
TEXAS	11,388	10,996	0.32	0.37	11.93	17.97
UTAH	1,038	10,525	0.25	0.29	11.10	17.04
VERMONT	351	11,376	0.26	0.30	1/ 0.00	1/ 0.00
VIRGINIA	3,705	11,182	0.21	0.24	10.90	16.00
WASHINGTON	3,237	9,656	0.21	0.23	12.05	16.01
WEST VIRGINIA	1,142	9,573	0.36	0.41	14.17	22.64
WISCONSIN	3,162	10,371	0.21	0.24	11.52	16.71
WYOMING	508	10,396	0.34	0.40	7.50	11.49
U.S. TOTAL	159,509	9,984	0.24	0.27	10.30	15.37

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

SECTION IV—PUERTO RICO AND U.S. TERRITORIES

Travel and accident data reported by Puerto Rico for calendar year 1982 contain unresolved errors. Data were not reported for 1982 by U.S. territories.

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 1978 through 1981. 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 numbers 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.

The application of the binomial probability law to accident rates gives results that approximate observed experience. This procedure is widely

The application of the binomial probability law to accident rates gives 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 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 volumes of travel are different for every State, the magnitudes of random variation are also different. To illustrate the effect of these differences, provisional ranges have been computed and are shown in Figure 7-A2. For each State, the observed 1982 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 1982 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 1982 fatality rates were about the same for New York and Hawaii, New York's rate was substantially lower than State rates observed for a similar travel density in the preceding 4-year period. Hawaii'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 rate-density 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 1982 were rarely above the provisional range based on 1978 through 1981 experience.

Fig. 7-A1. PROVISIONAL RATE-DENSITY RELATIONSHIP (1978-81)
ALL HIGHWAYS

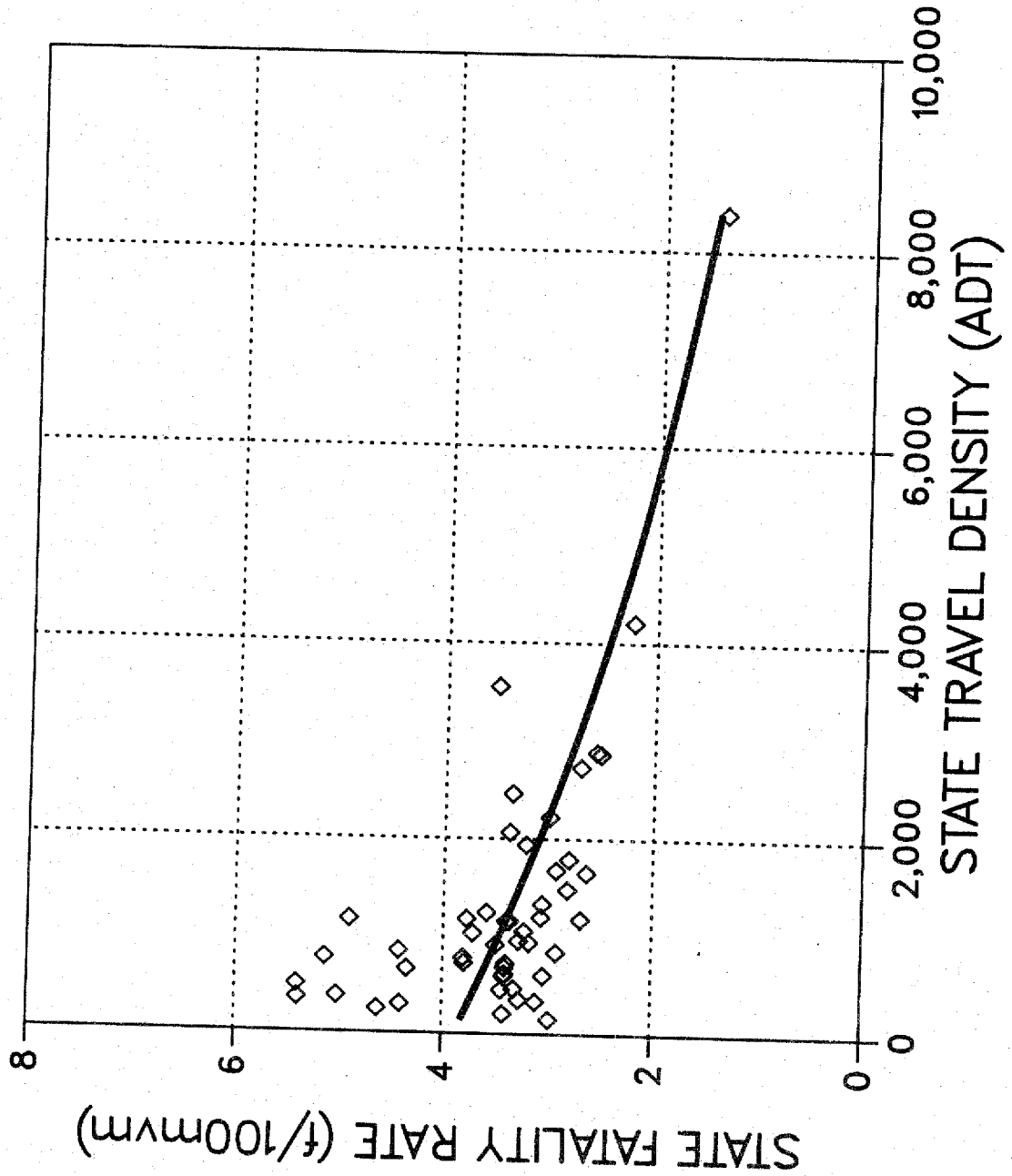


Figure 7-A2 FATALITY RATE BY STATE-ALL HIGHWAYS (1982)

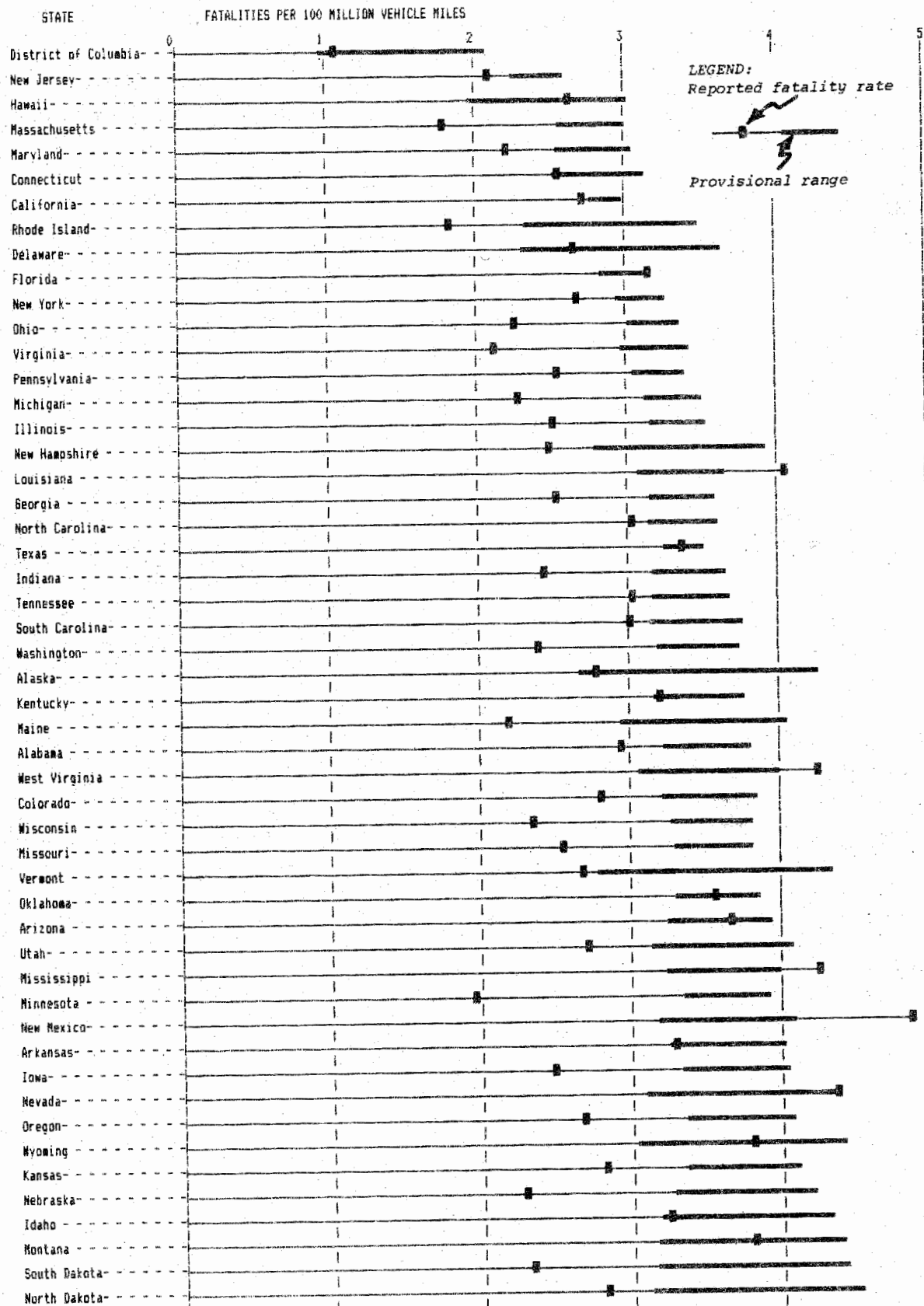


Fig. 7-B1. PROVISIONAL RATE-DENSITY RELATIONSHIP (1978-81)
 RURAL AND URBAN HIGHWAYS

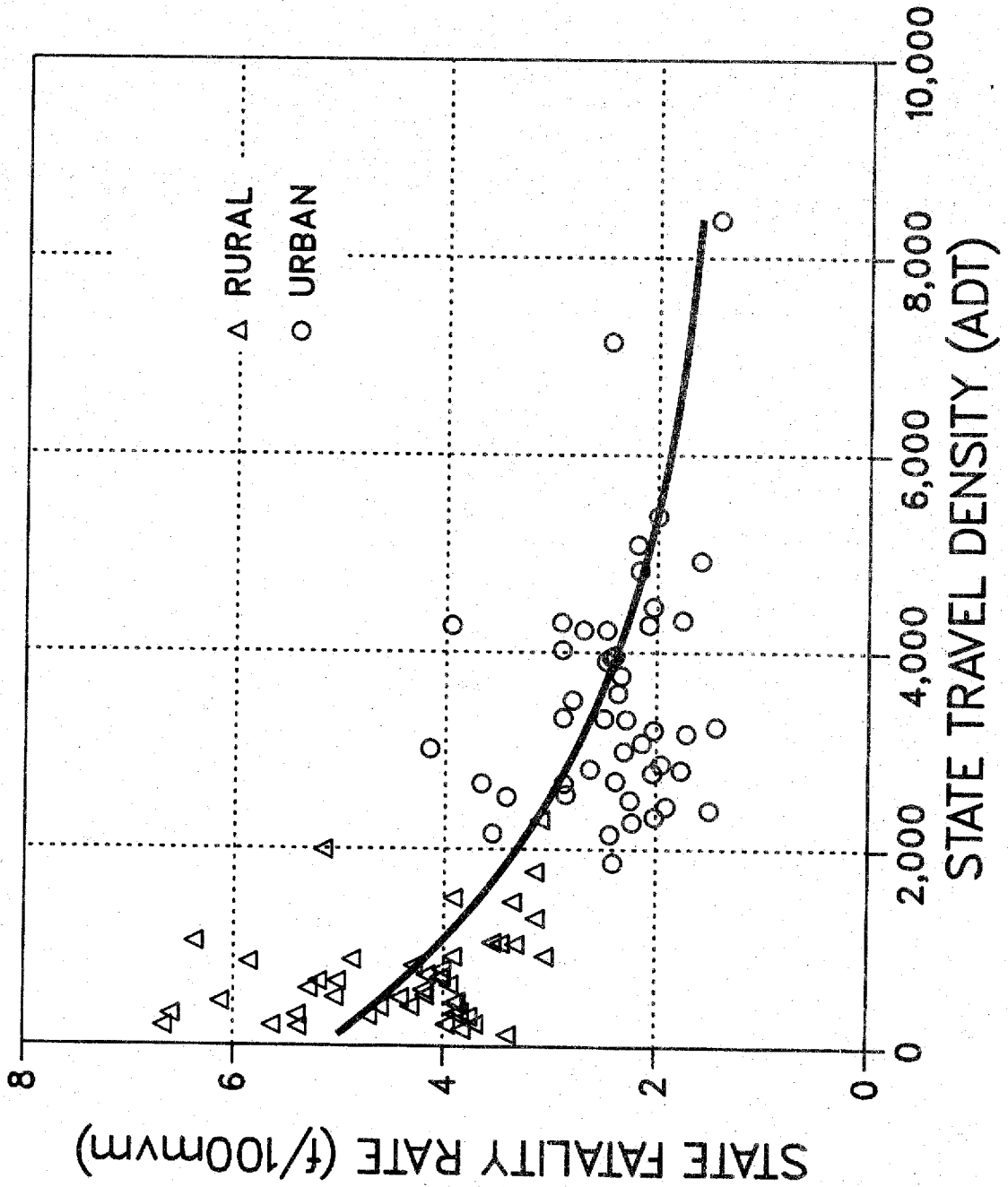


Figure 7-B2a FATALITY RATE BY STATE--ALL RURAL HIGHWAYS (1982)

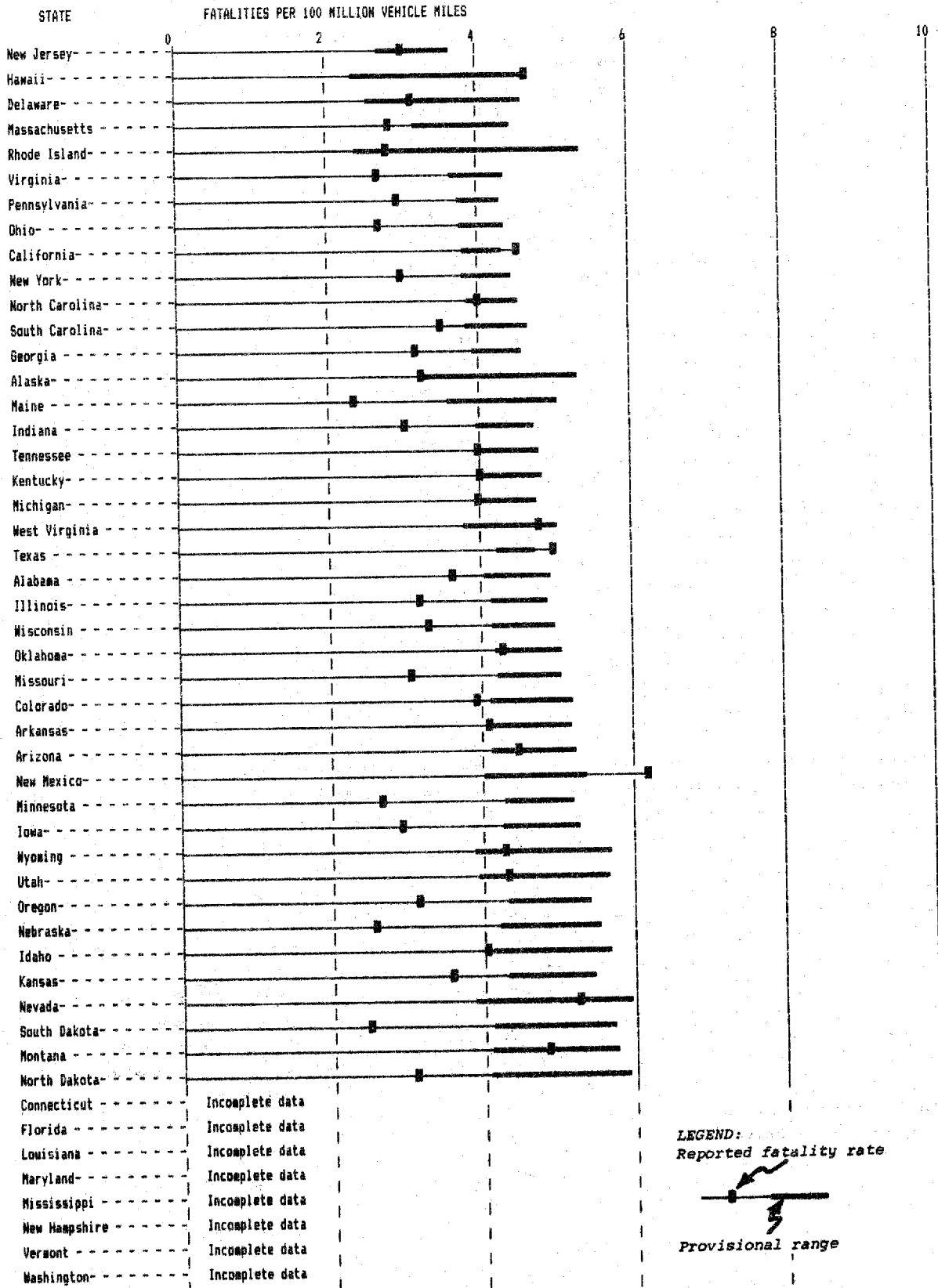


Figure 7-B2b FATALITY RATE BY STATE--ALL URBAN HIGHWAYS (1982)

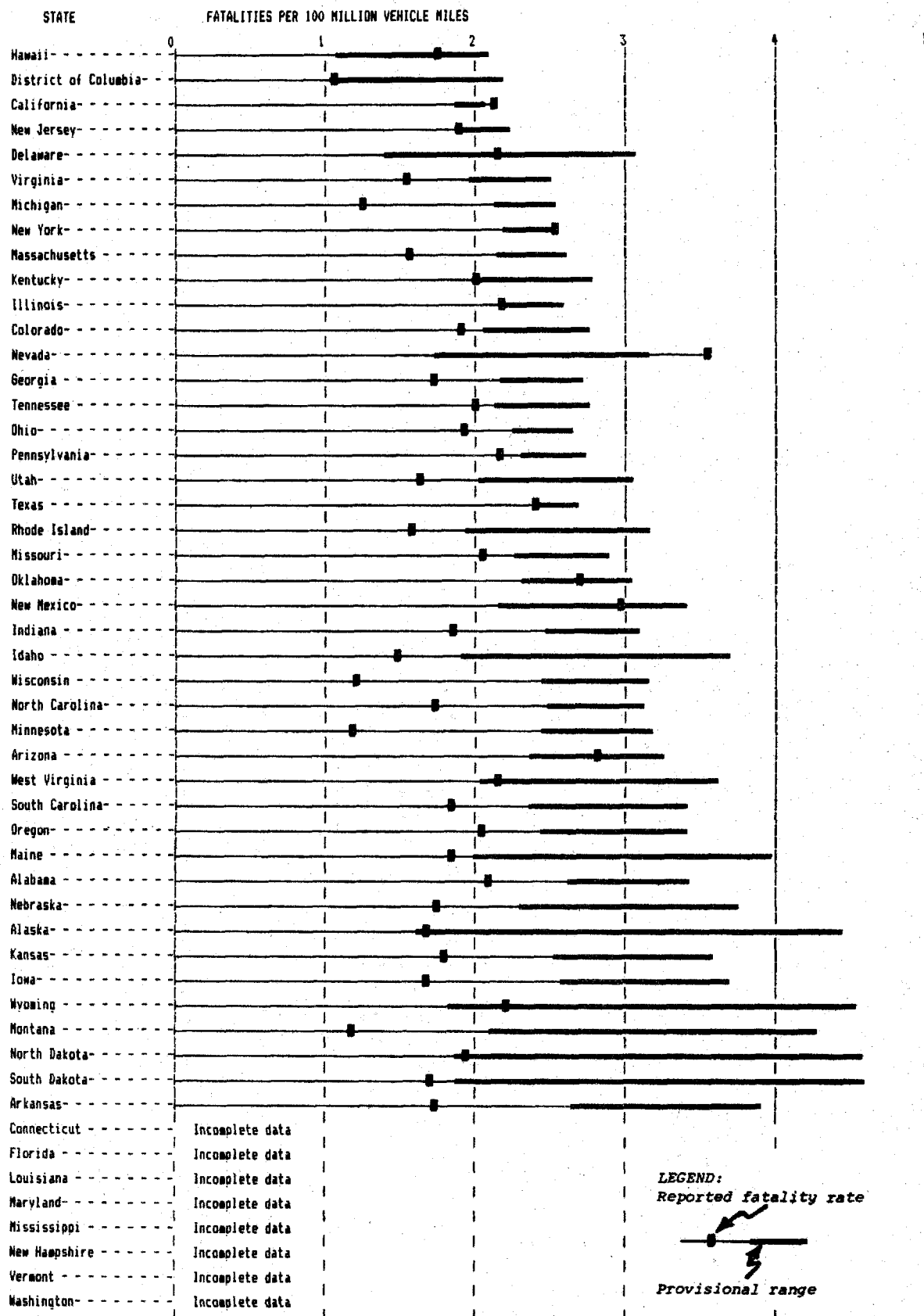


Fig. 7-C1. PROVISIONAL RATE-DENSITY RELATIONSHIP (1978-81)
INTERSTATE SYSTEM

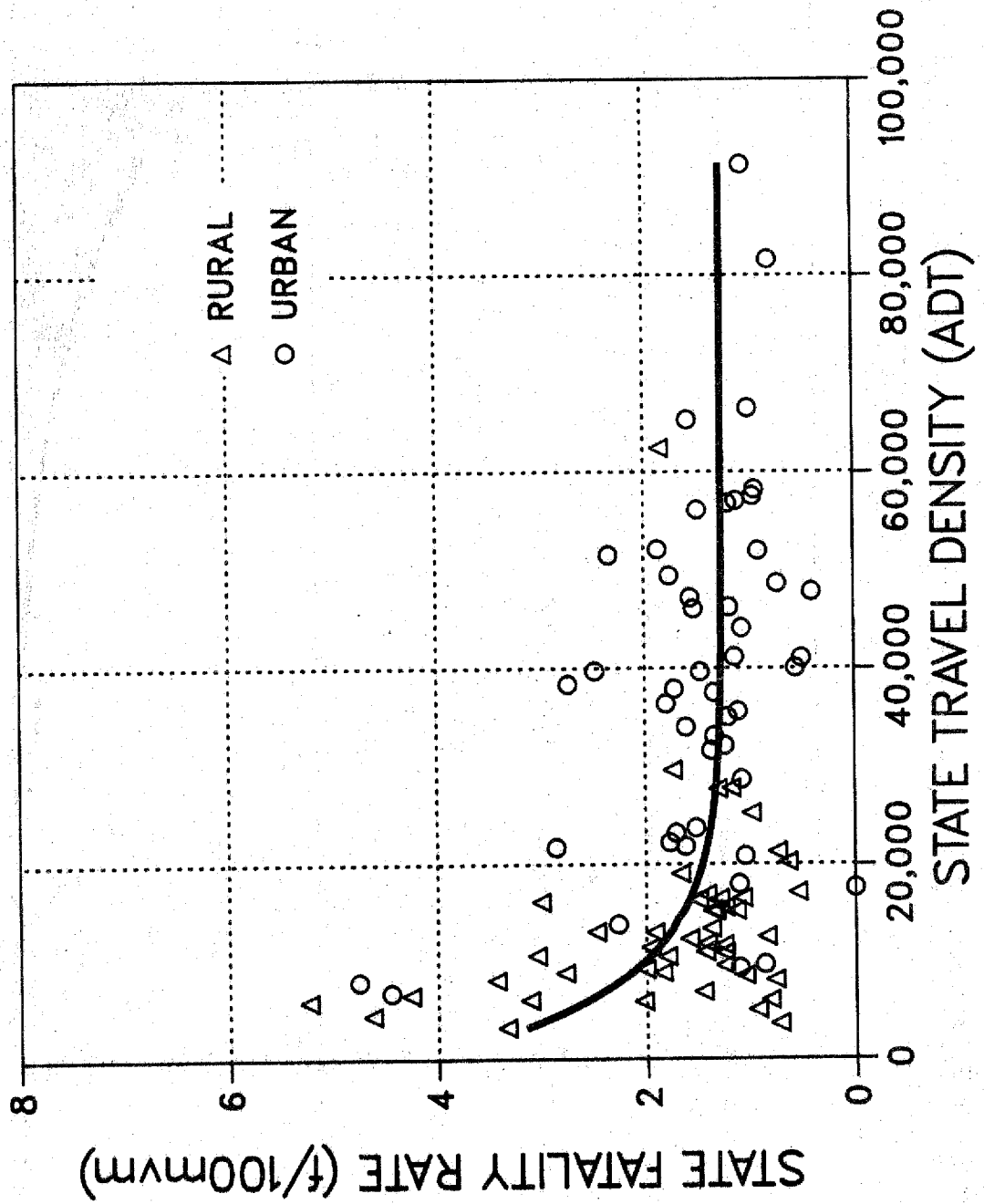


Figure 7-C2a FATALITY RATE BY STATE—RURAL INTERSTATE HIGHWAYS (1982)

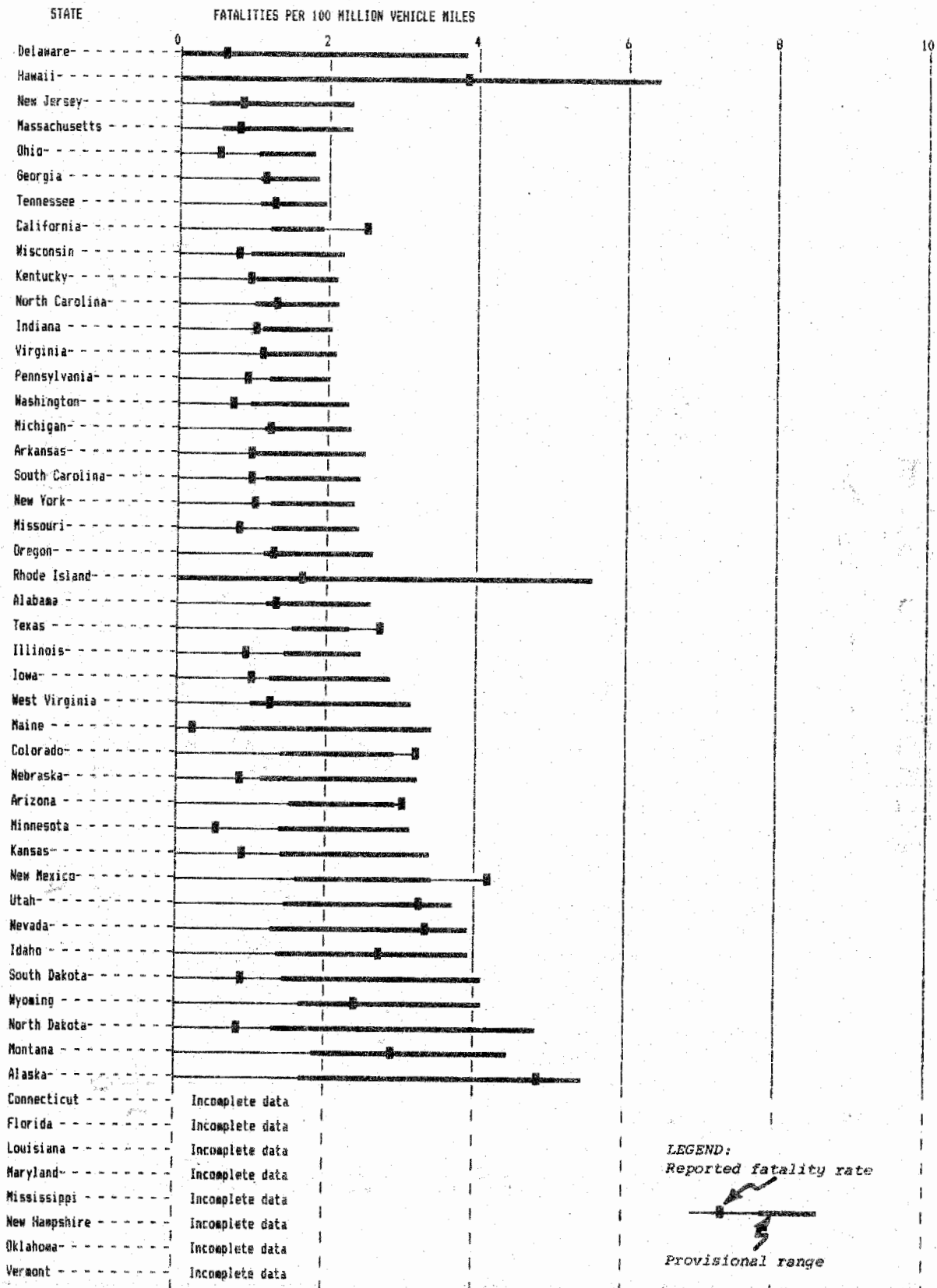


Figure 7-C2b FATALITY RATE BY STATE--URBAN INTERSTATE HIGHWAYS (1982)

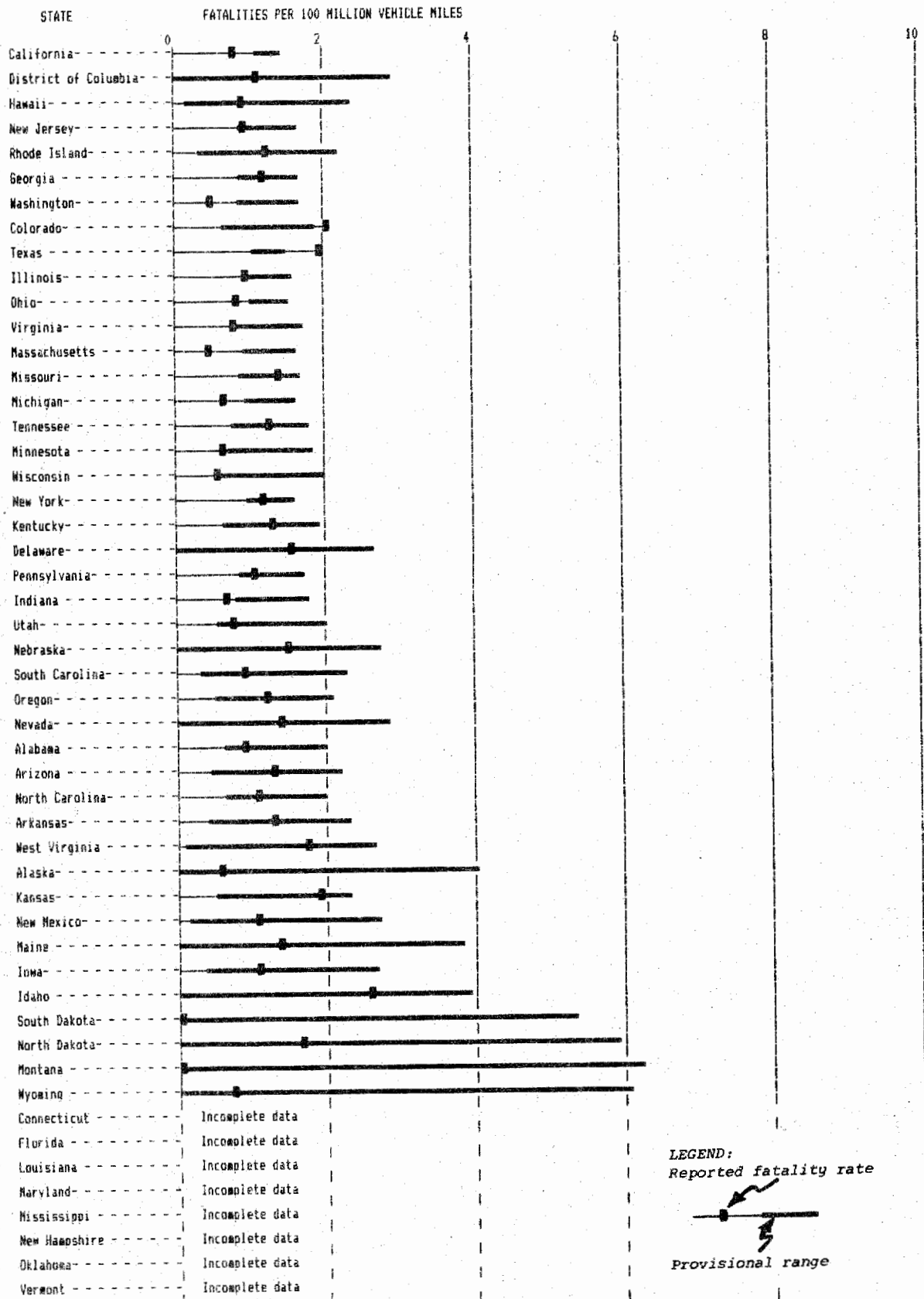
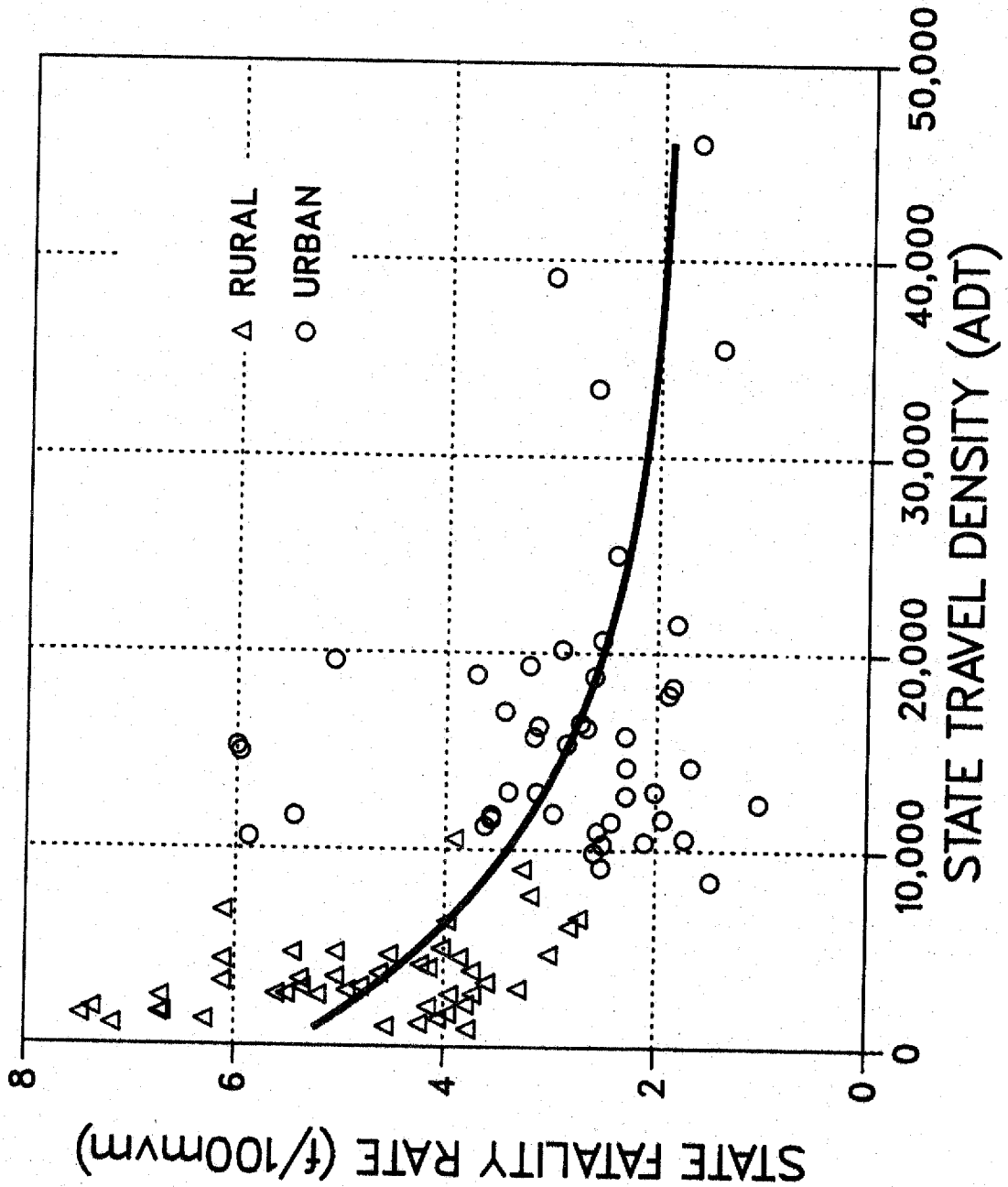
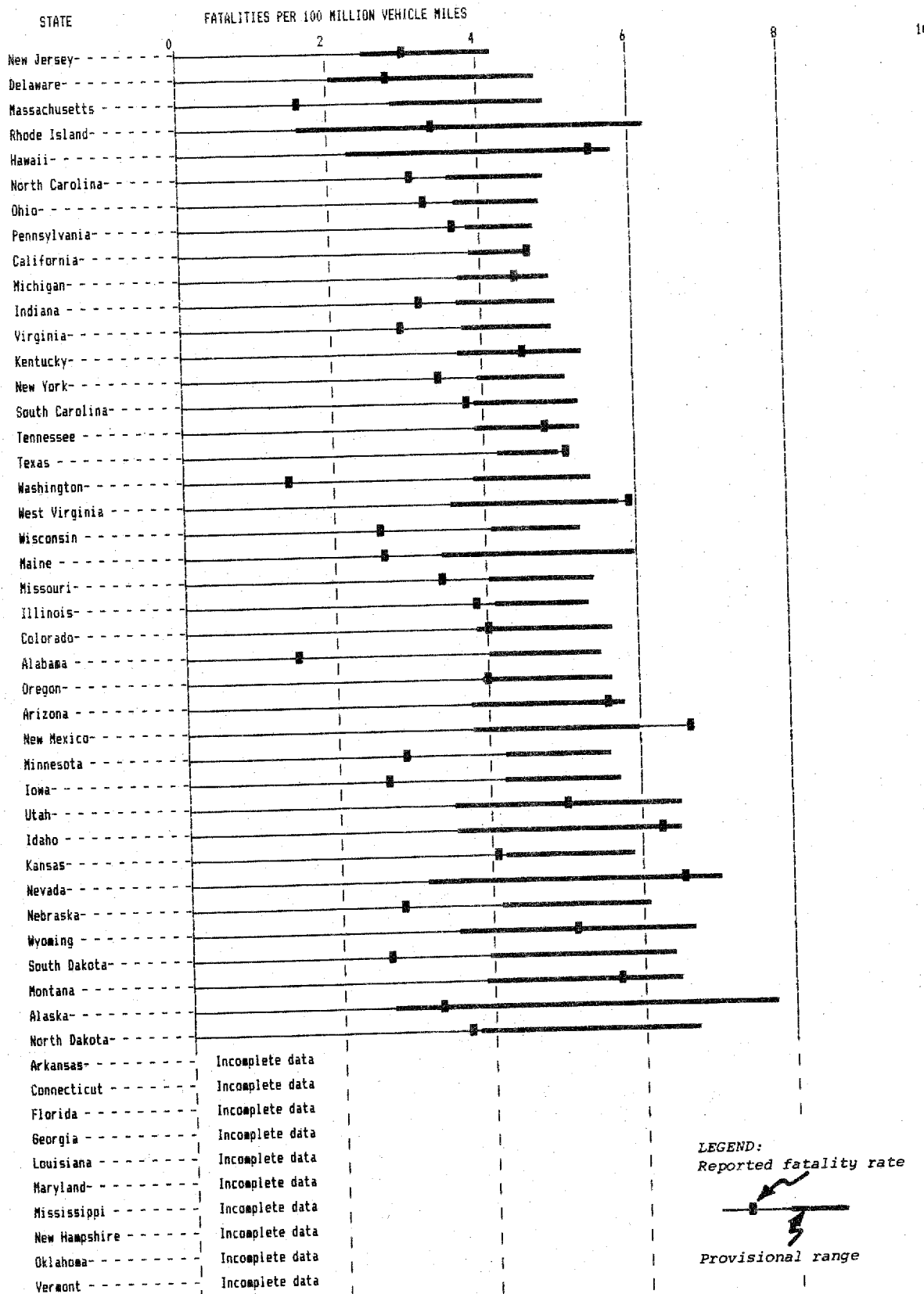


Fig. 7-D1. PROVISIONAL RATE-DENSITY RELATIONSHIP (1978-81)
 OTHER FEDERAL-AID PRIMARY HIGHWAYS



**Figure 7-D2a FATALITY RATES BY STATES--OTHER RURAL
FEDERAL-AID PRIMARY HIGHWAYS (1982)**



**Figure 7-D2b FATALITY RATES BY STATE—OTHER URBAN
FEDERAL-AID PRIMARY HIGHWAYS (1982)**

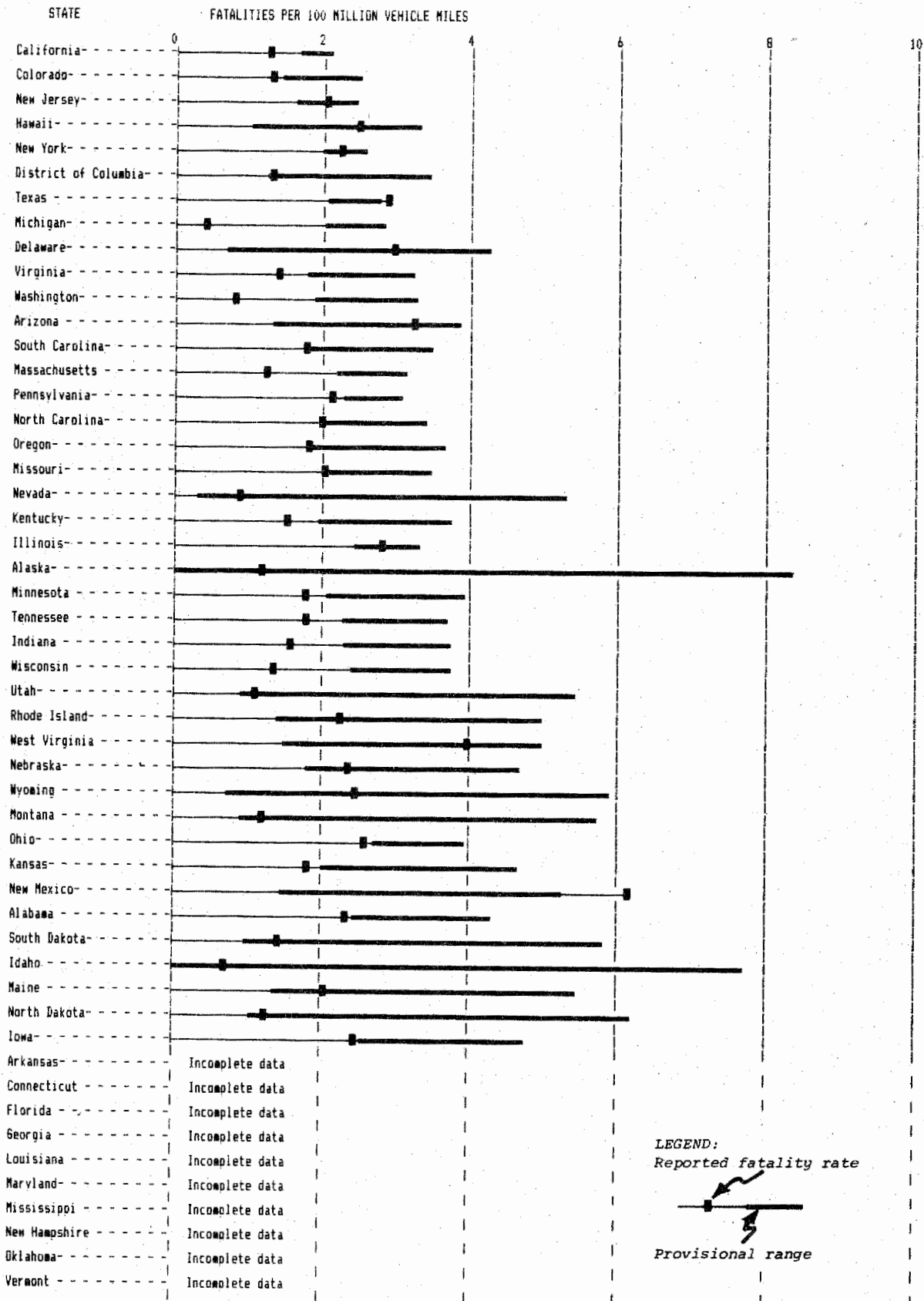


Fig. 7-E1. PROVISIONAL RATE-DENSITY RELATIONSHIP (1978-81)
FEDERAL-AID SECONDARY AND URBAN SYSTEMS

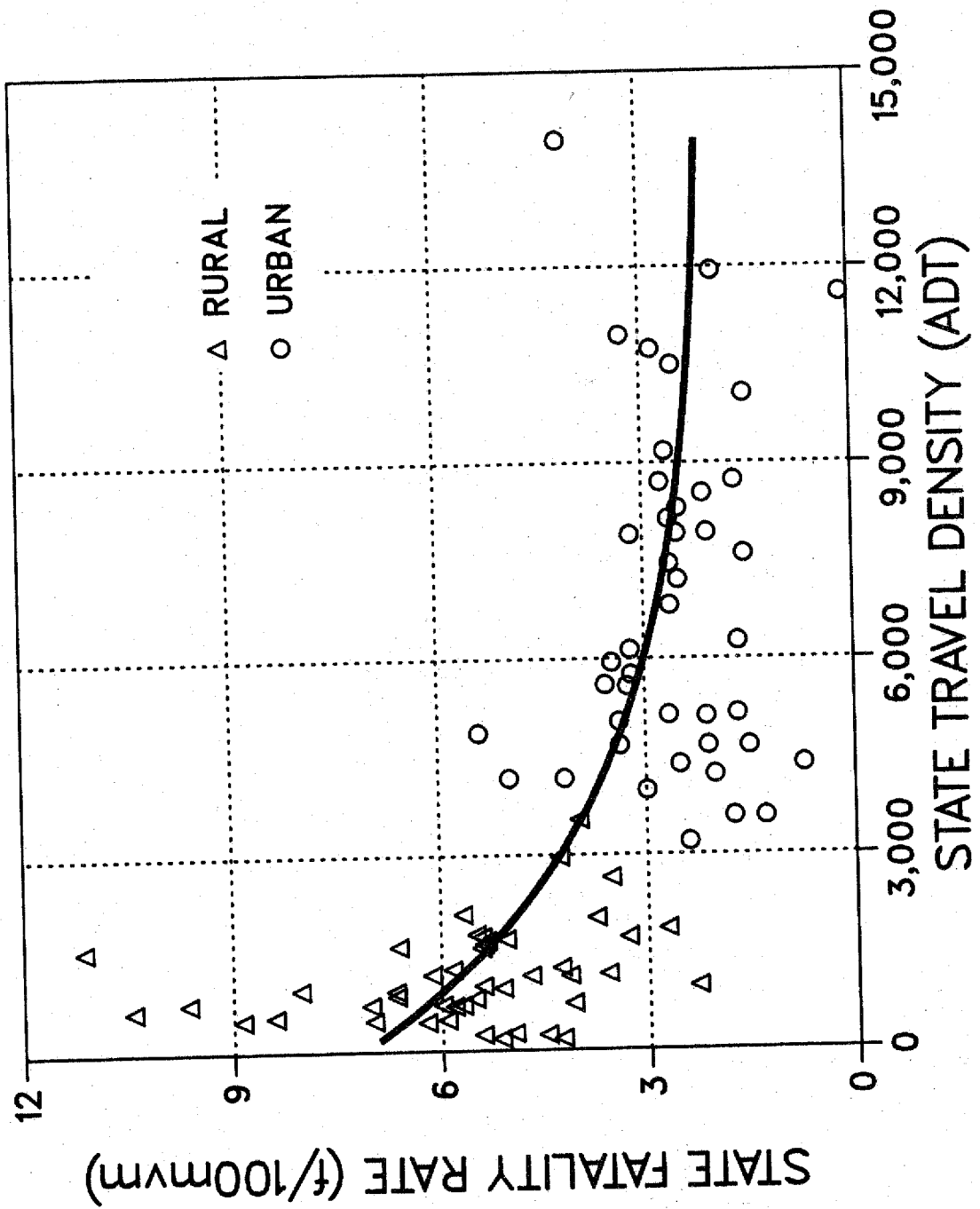


Figure 7-E2a FATALITY RATE BY STATE—FEDERAL-AID SECONDARY HIGHWAYS (1982)

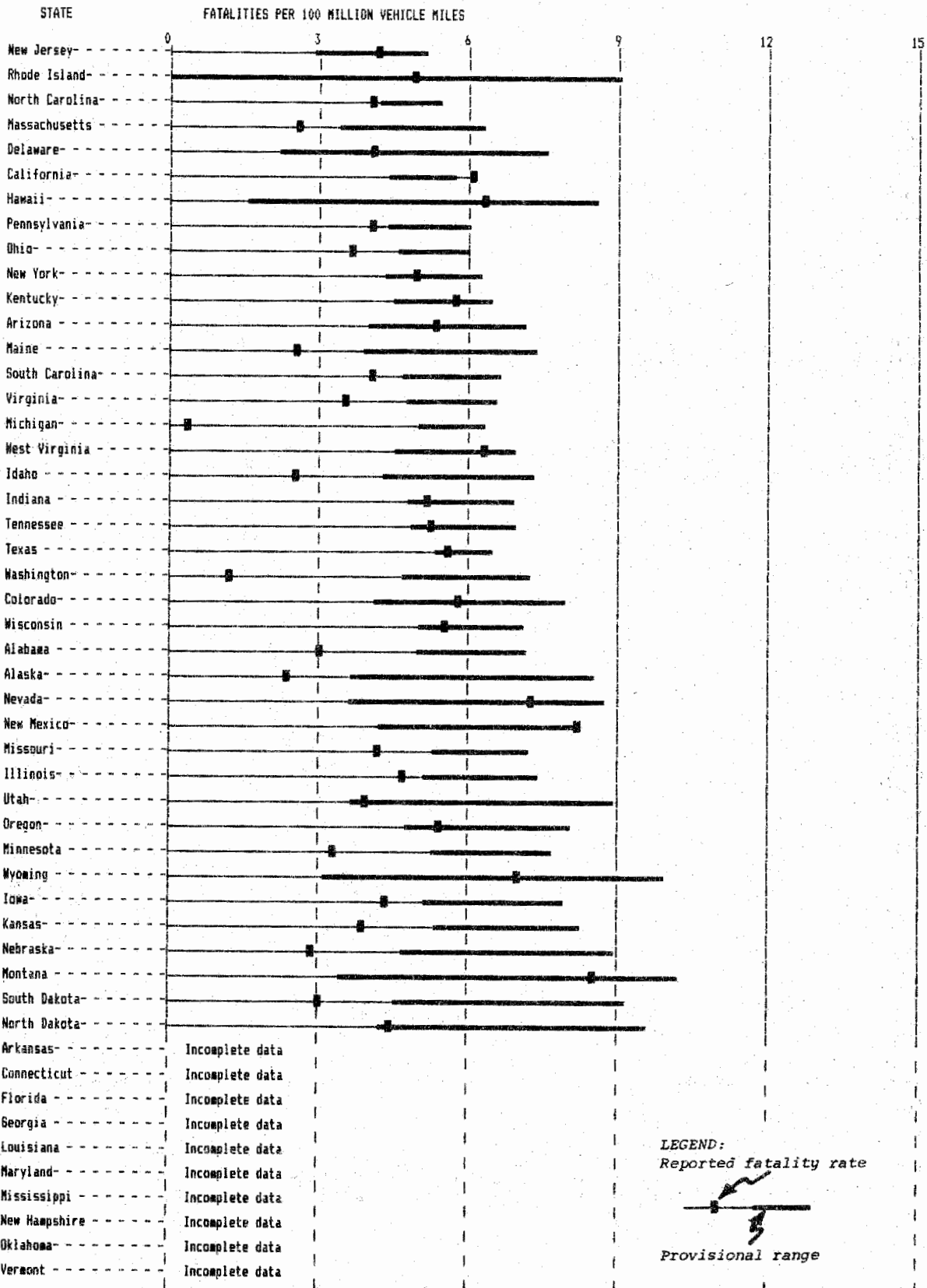


Figure 7-E2b FATALITY RATE BY STATE—FEDERAL-AID URBAN SYSTEM HIGHWAYS (1982)

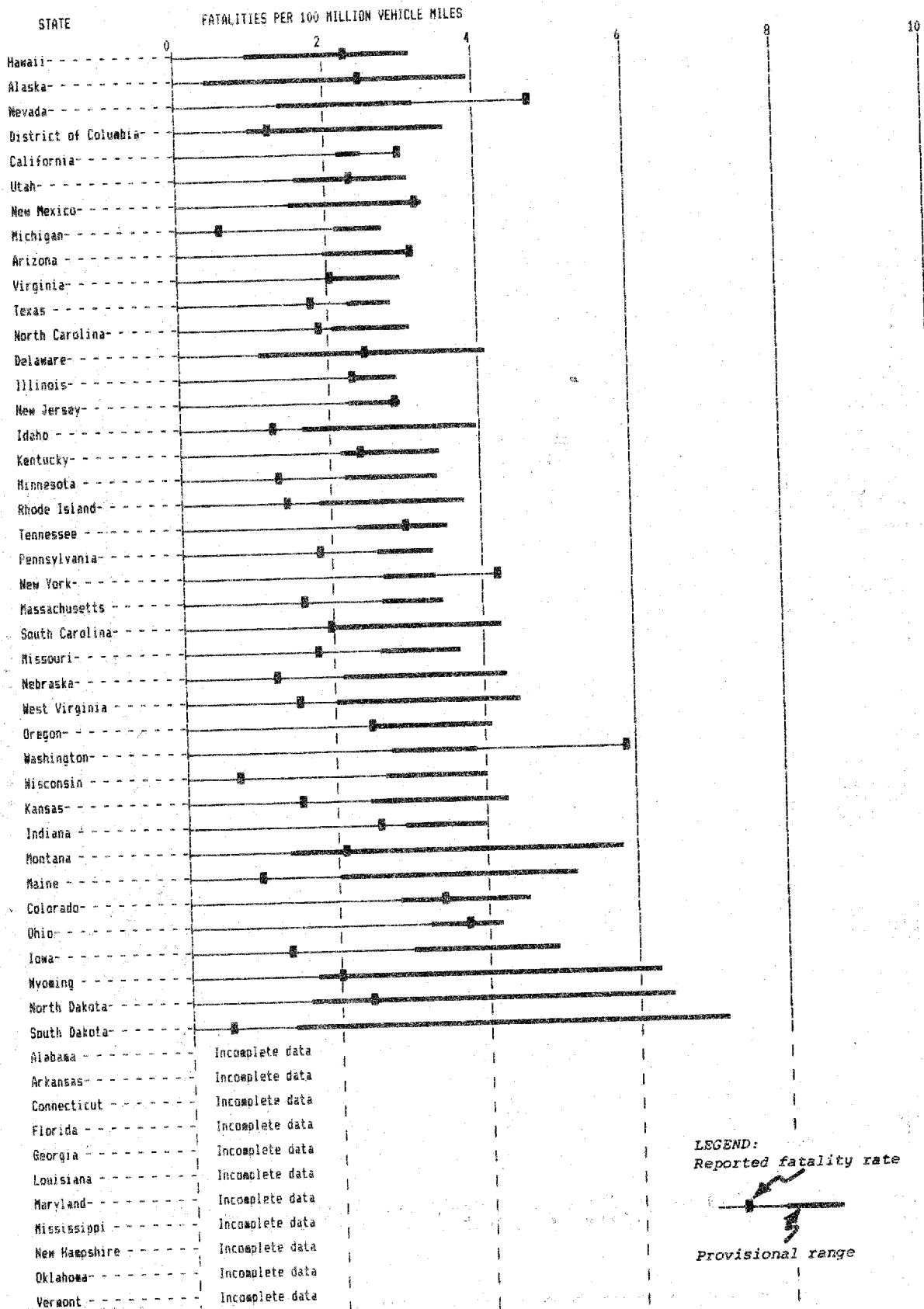


Fig. 7-F1. PROVISIONAL RATE-DENSITY RELATIONSHIP (1978-81)
 NON-FEDERAL-AID HIGHWAYS

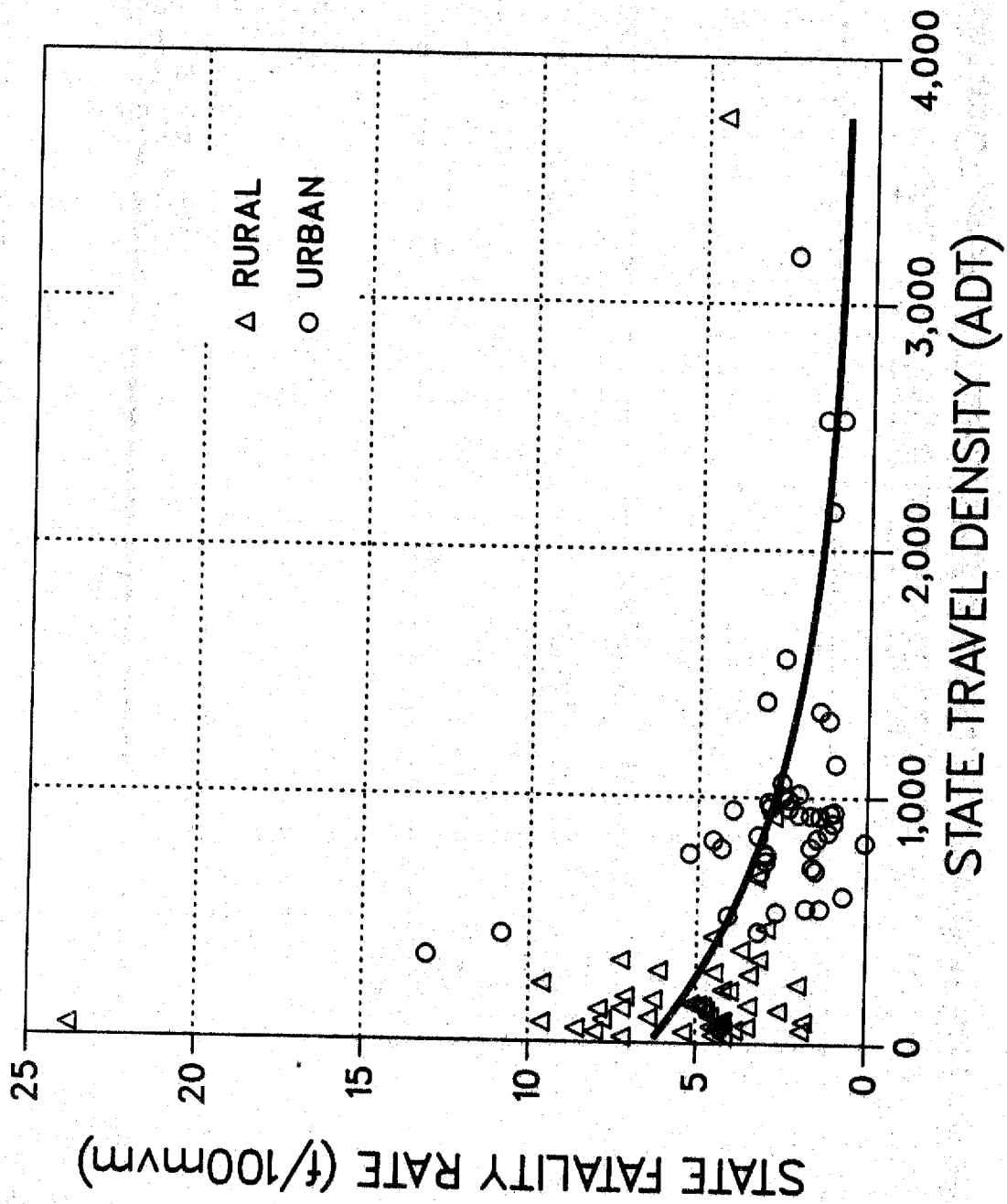


Figure 7-F2a FATALITY RATE BY STATE--RURAL NON-FEDERAL-AID HIGHWAYS (1982)

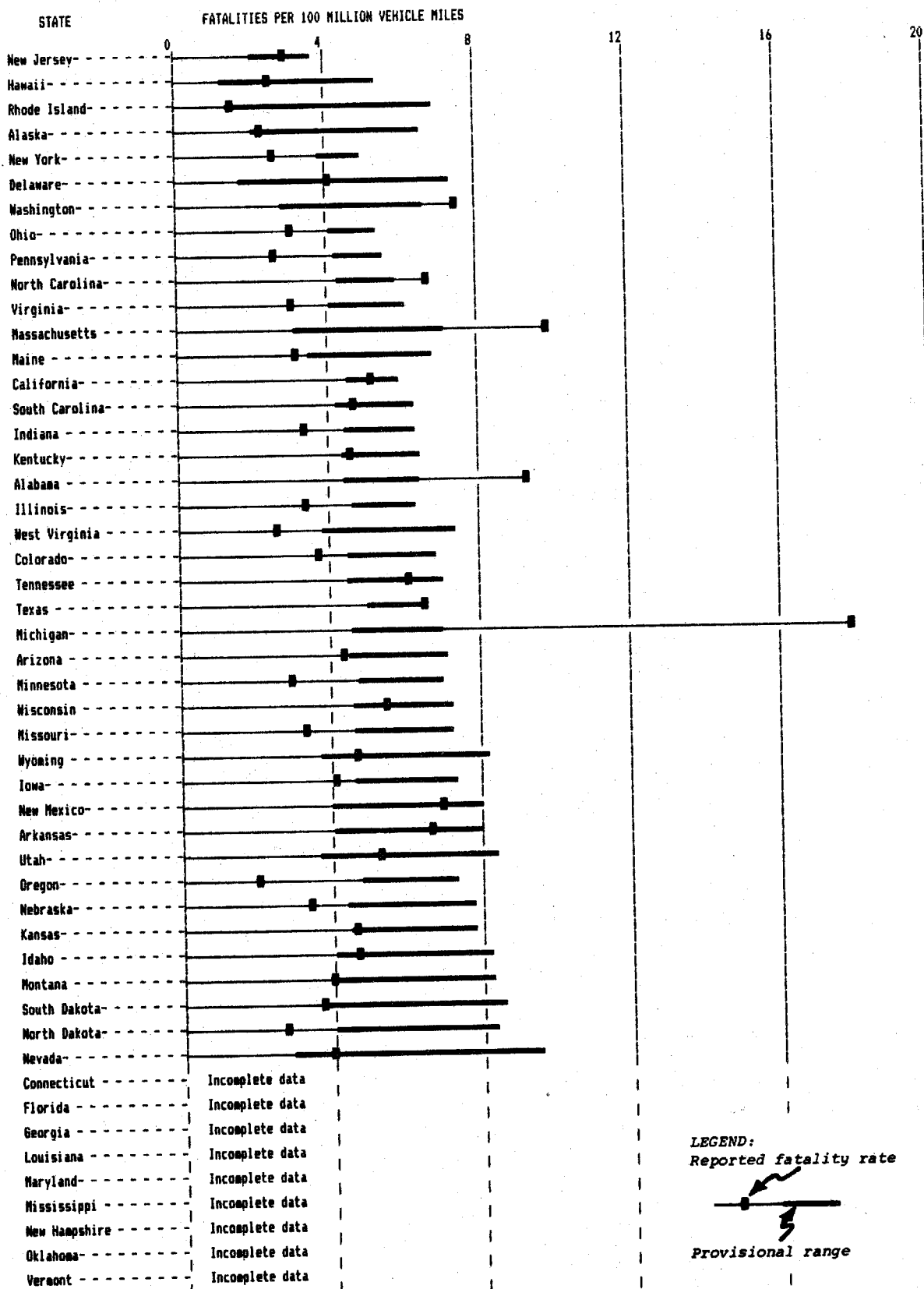
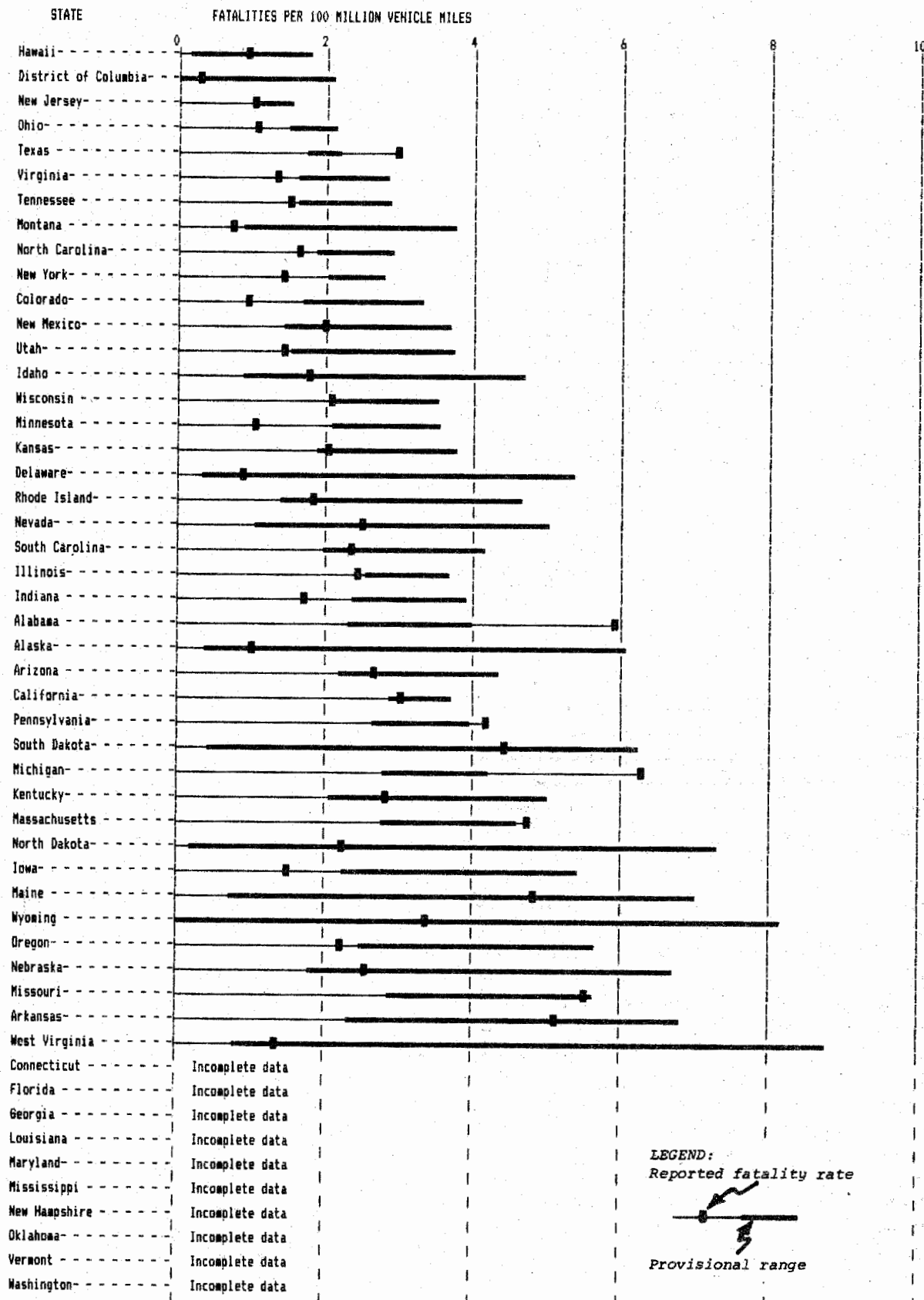


Figure 7-F2b FATALITY RATE BY STATE—URBAN NON-FEDERAL-AID HIGHWAYS (1982)



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 1978 through 1982. 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.

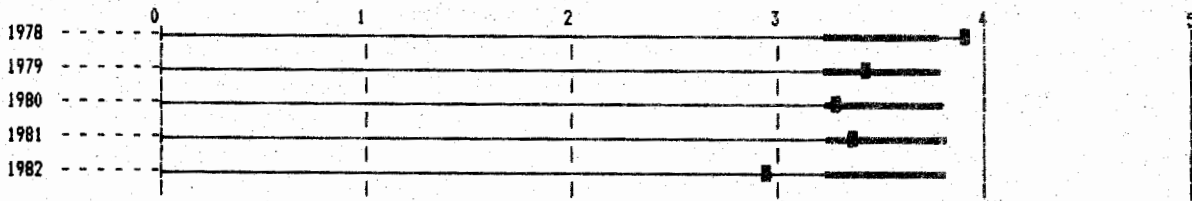
Figure 8 is designed to show, within each State, the pattern of observed rates over the 5-year period and the relationship of observed rates to provisional ranges. Because of differences in the magnitude of their rates, not all States are shown at the same scale. It is not intended that Figure 8 be used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

While some States like Illinois and Minnesota show steadily decreasing fatality rates throughout the 5-year period, Kentucky reports almost no change. In the majority of States, the rate reported for 1982 is substantially lower than the rates for preceding years. In only a few States is the 1982 fatality rate above the provisional range.

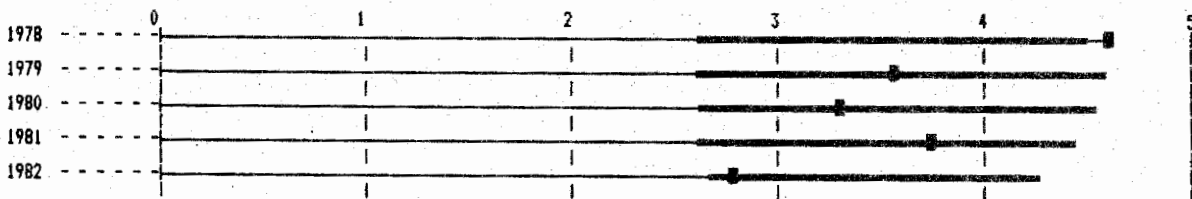
Figure 8 STATE FATALITY RATES (1978-1982)

(Fatalities per 100 million vehicle-miles)

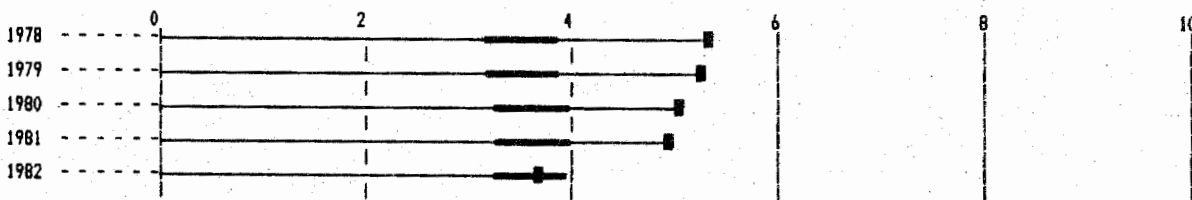
ALABAMA



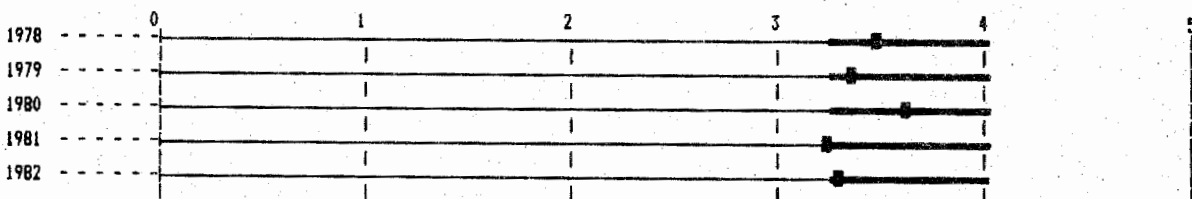
ALASKA



ARIZONA



ARKANSAS



CALIFORNIA

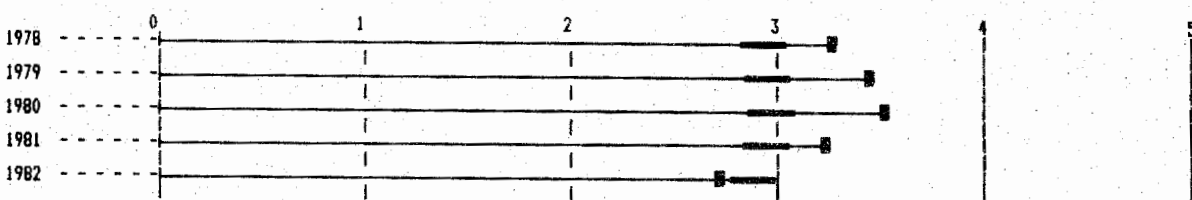
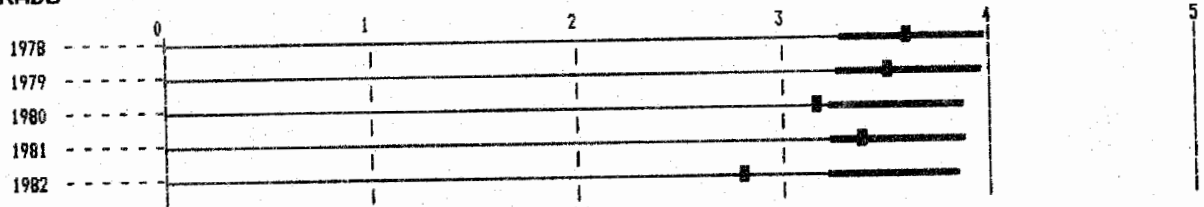
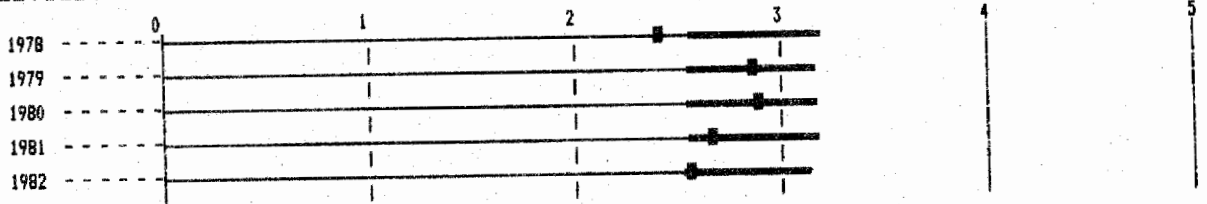


Figure 8 (continued) STATE FATALITY RATES (1978-1982)

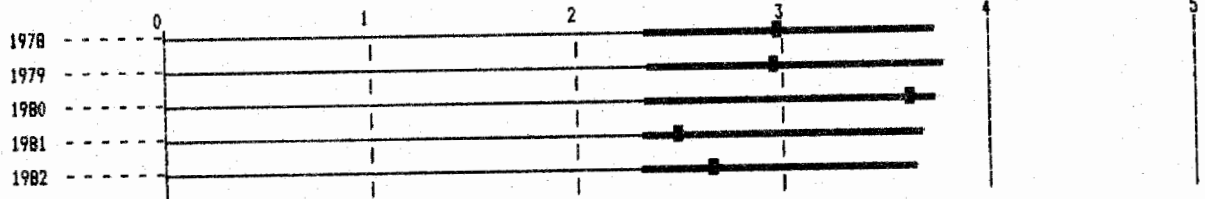
COLORADO



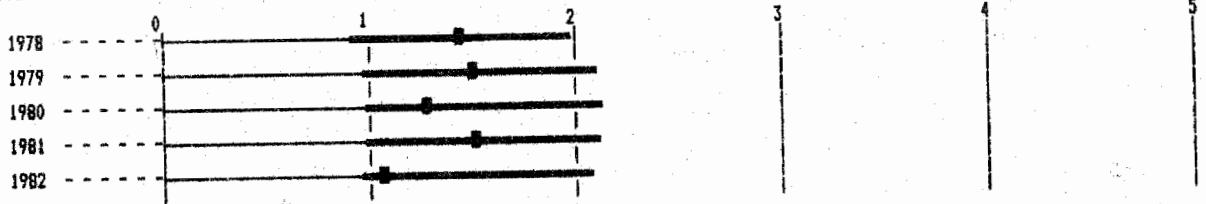
CONNECTICUT



DELAWARE



DISTRICT OF COLUMBIA



FLORIDA

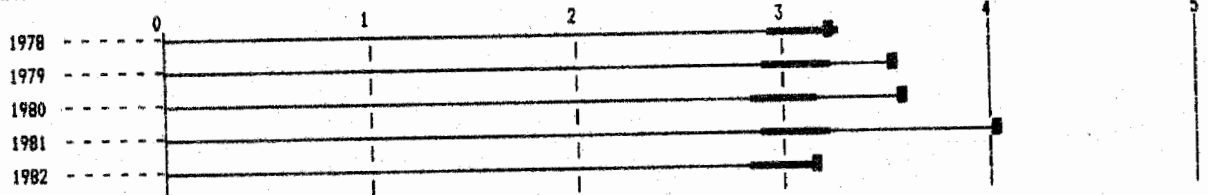
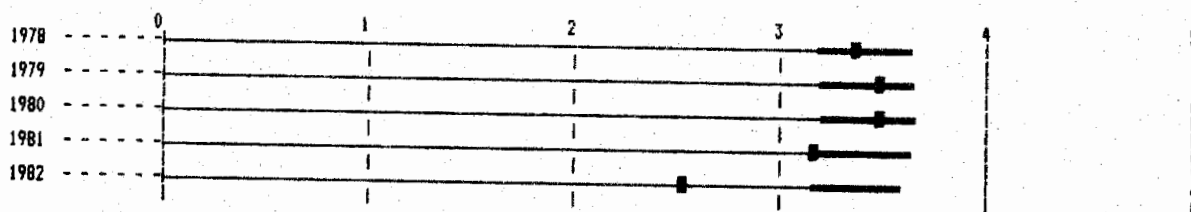
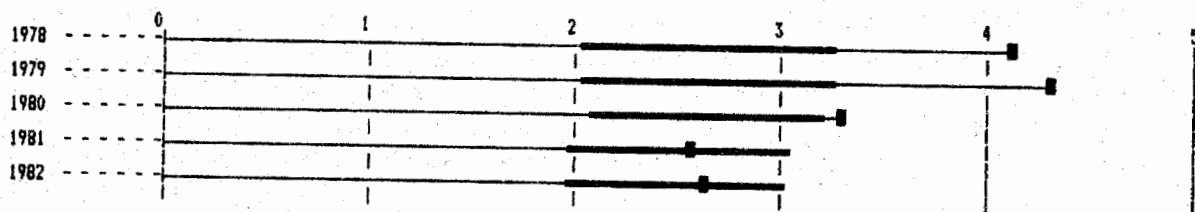


Figure 8 (continued) STATE FATALITY RATES (1978-1982)

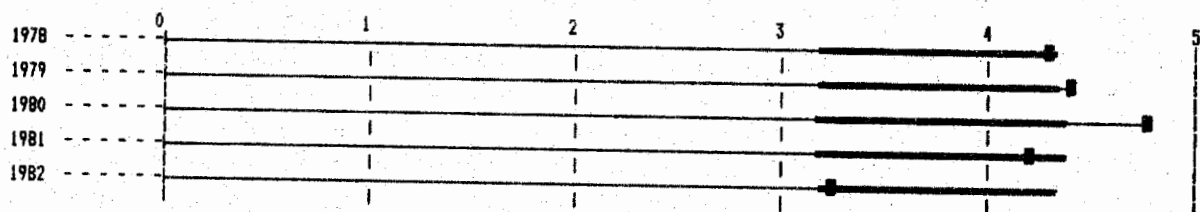
GEORGIA



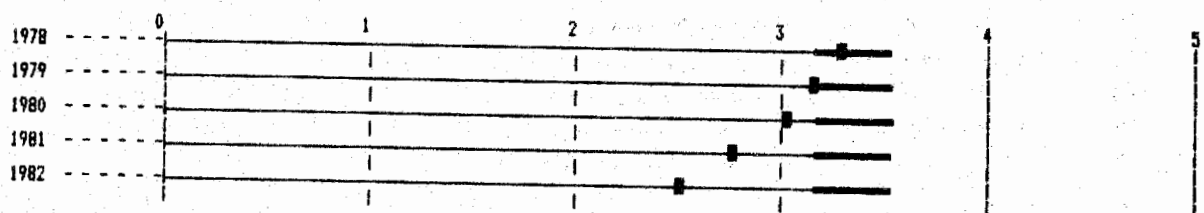
HAWAII



IDAHO



ILLINOIS



INDIANA

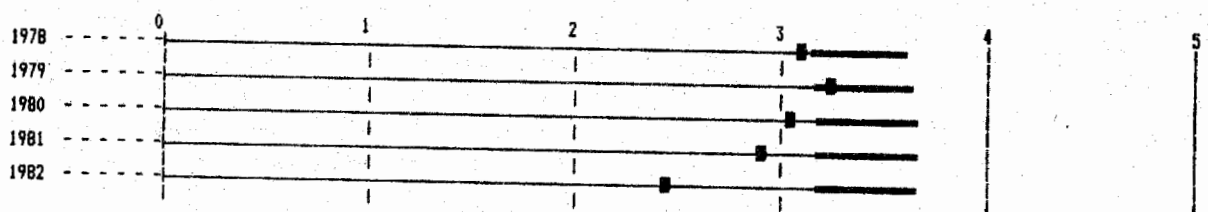
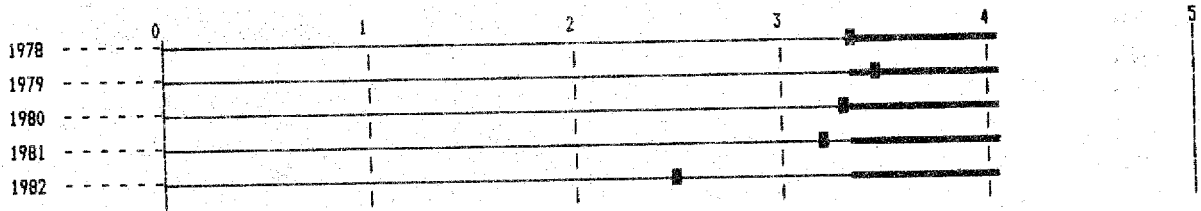
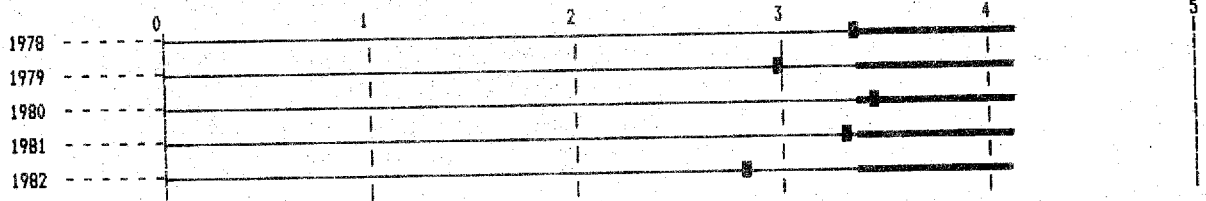


Figure 8 (continued) STATE FATALITY RATES (1978-1982)

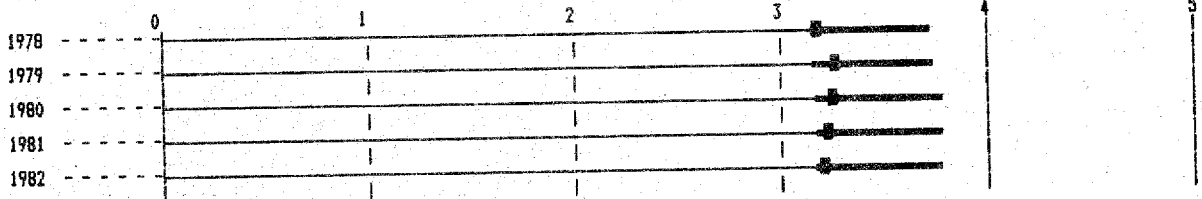
IOWA



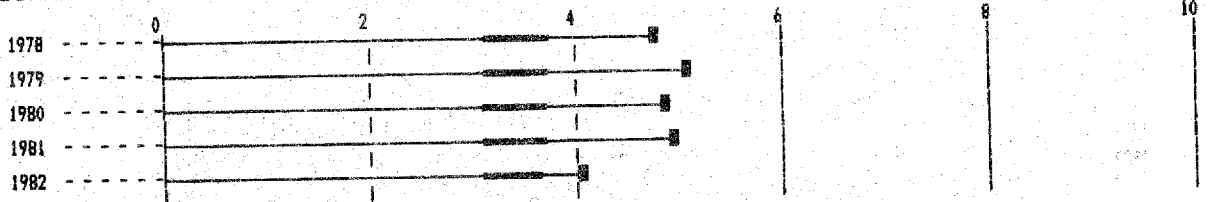
KANSAS



KENTUCKY



LOUISIANA



MAINE

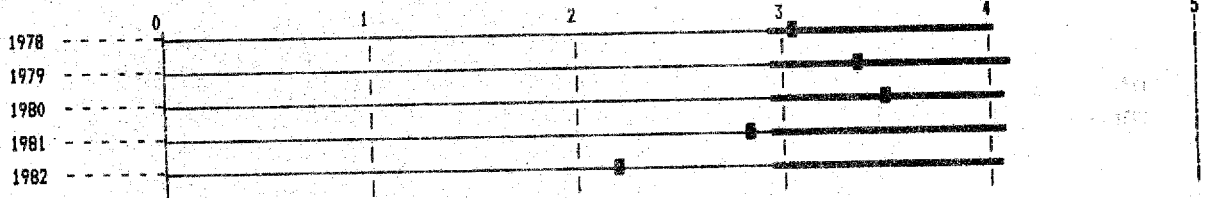
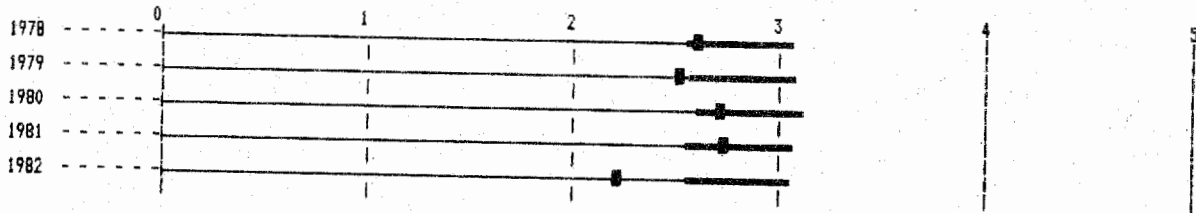
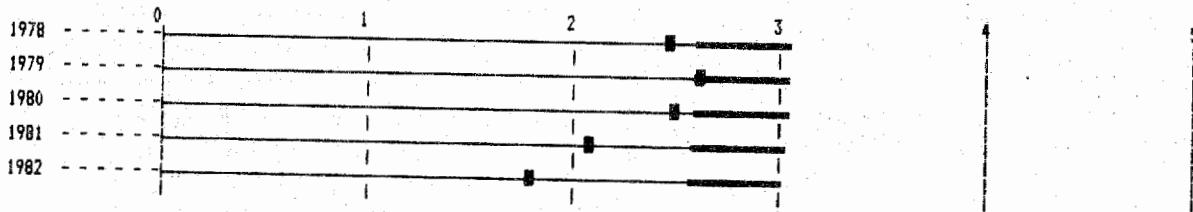


Figure 8 (continued) STATE FATALITY RATES (1978-1982)

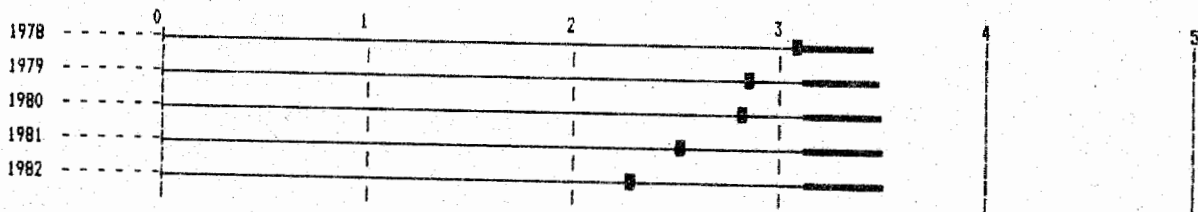
MARYLAND



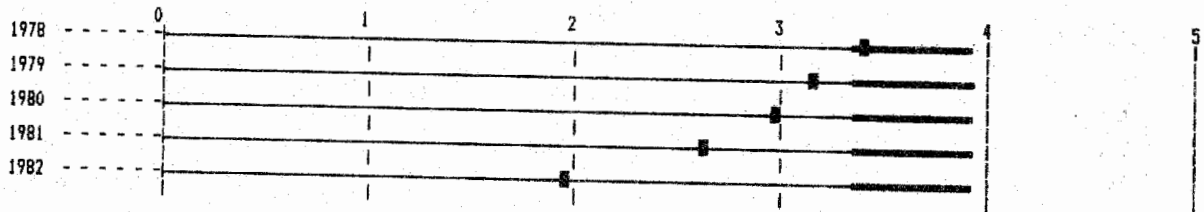
MASSACHUSETTS



MICHIGAN



MINNESOTA



MISSISSIPPI

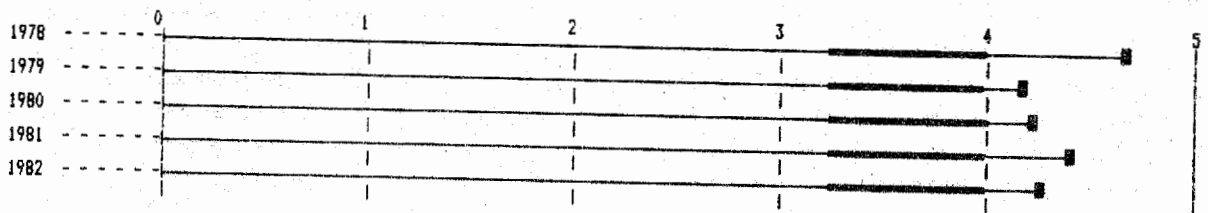
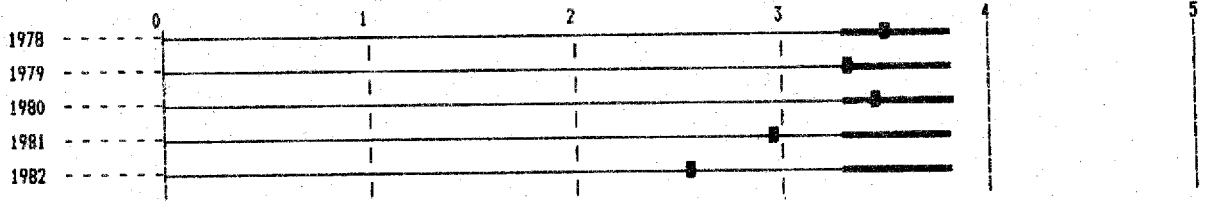
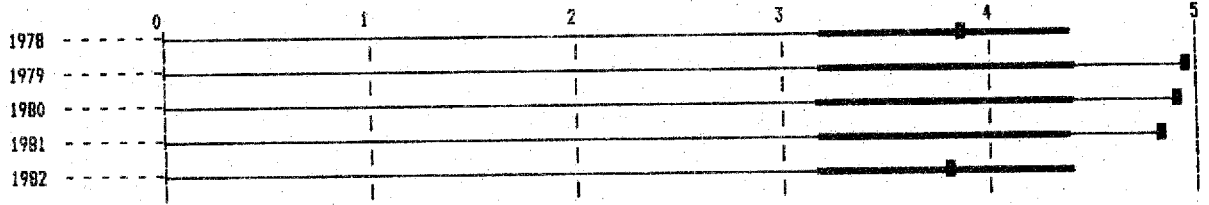


Figure 8 (continued) STATE FATALITY RATES (1978-1982)

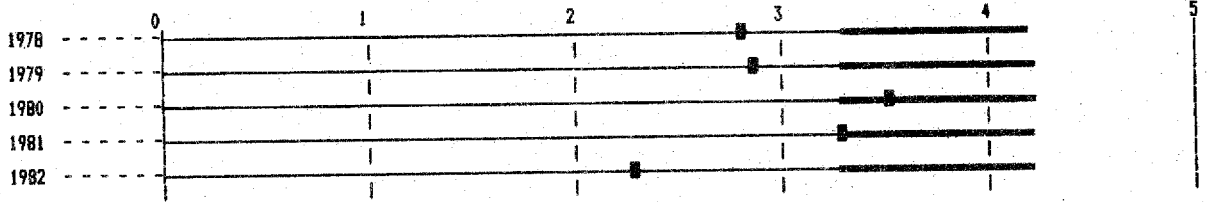
MISSOURI



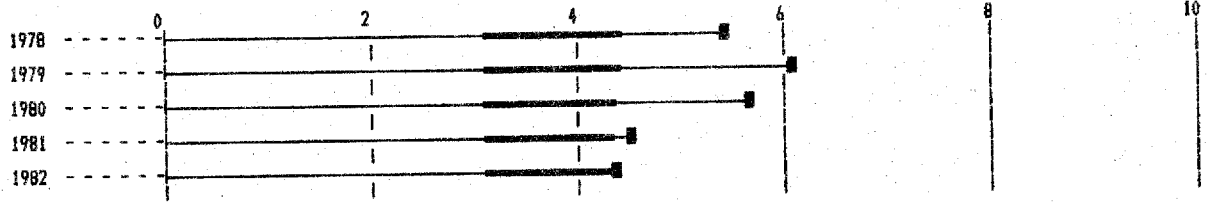
MONTANA



NEBRASKA



NEVADA



NEW HAMPSHIRE

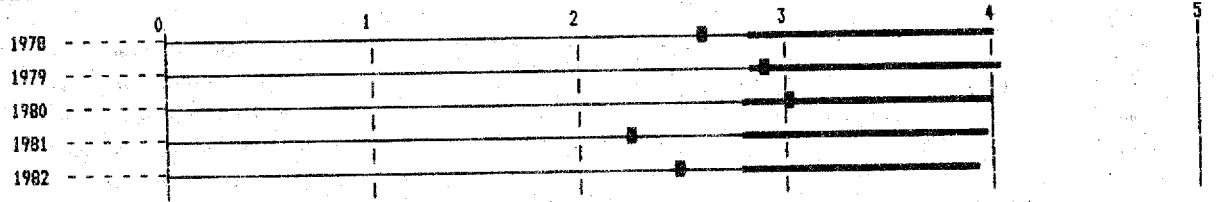
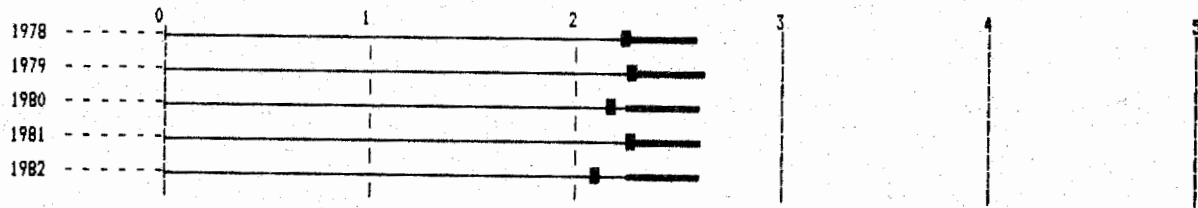
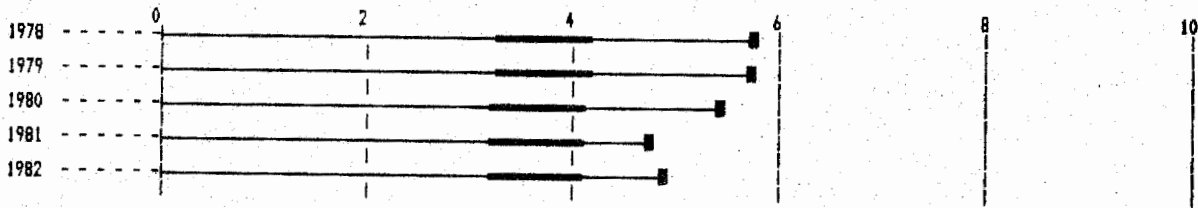


Figure 8 (continued) STATE FATALITY RATES (1978-1982)

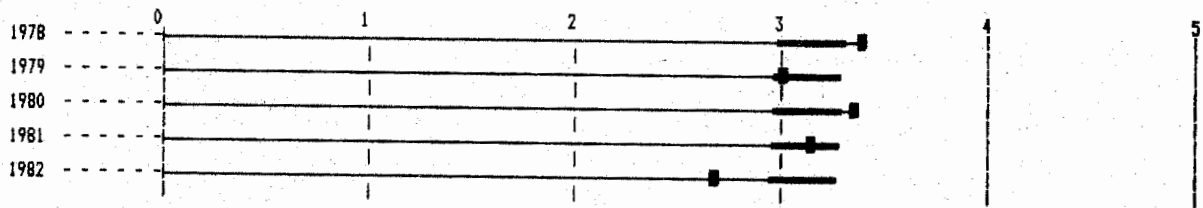
NEW JERSEY



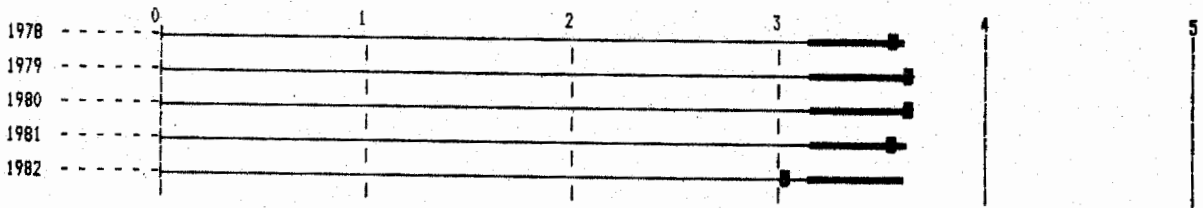
NEW MEXICO



NEW YORK



NORTH CAROLINA



NORTH DAKOTA

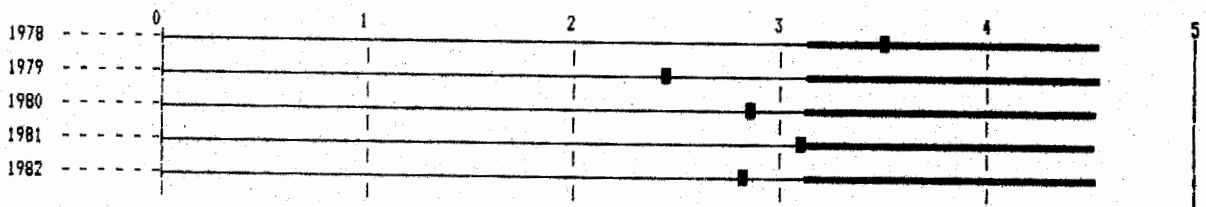
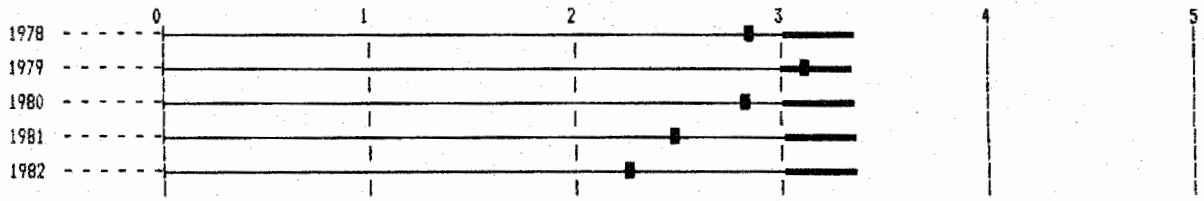
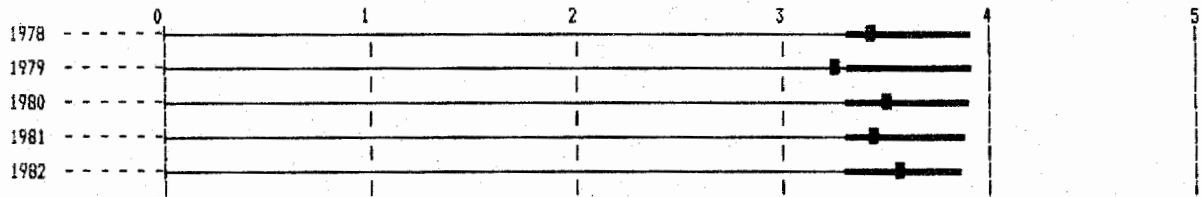


Figure 8 (continued) STATE FATALITY RATES (1978-1982)

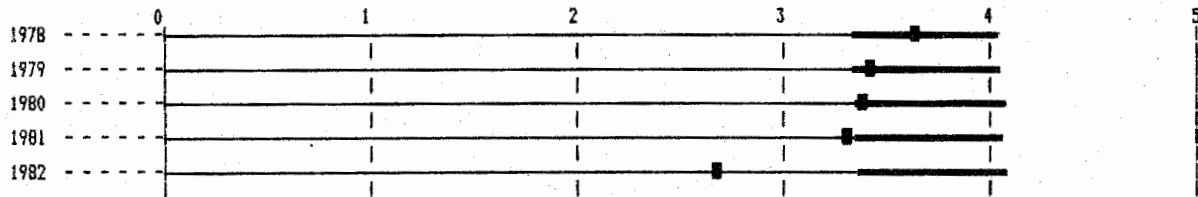
OHIO



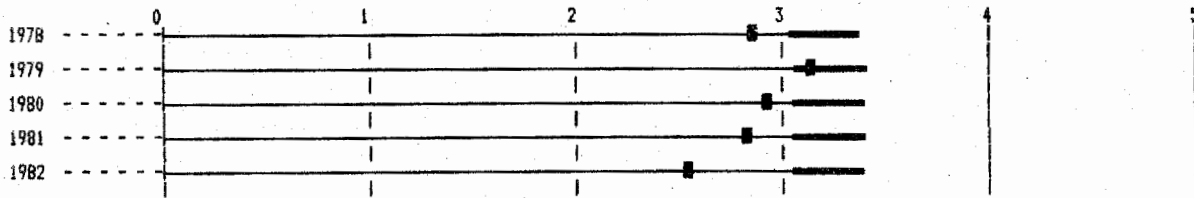
OKLAHOMA



OREGON



PENNSYLVANIA



RHODE ISLAND

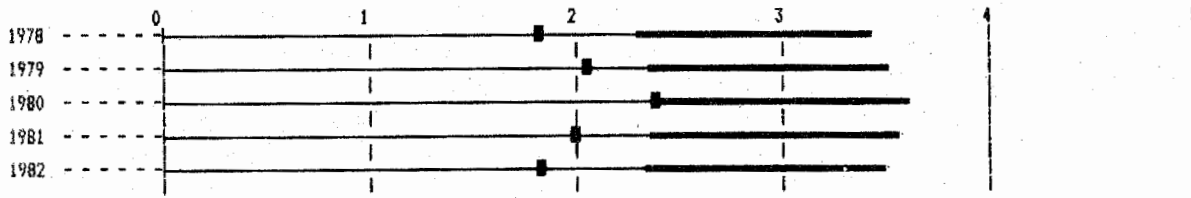
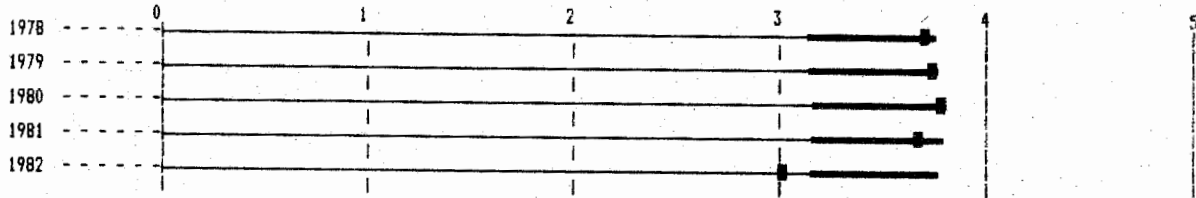
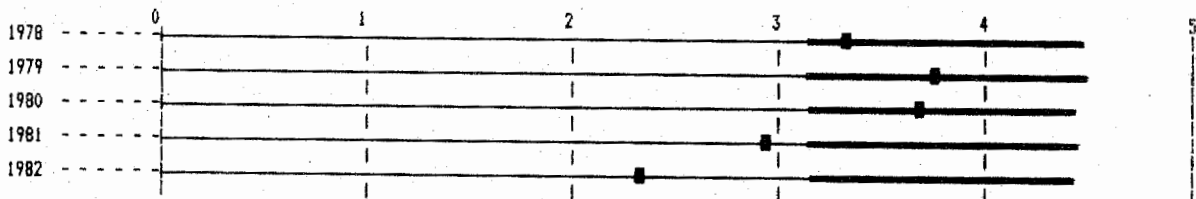


Figure 8 (continued) STATE FATALITY RATES (1978-1982)

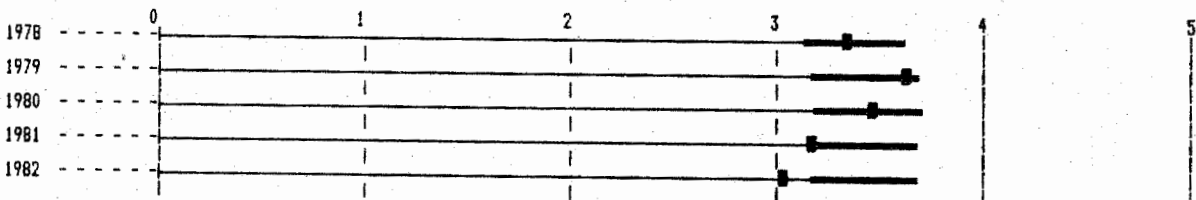
SOUTH CAROLINA



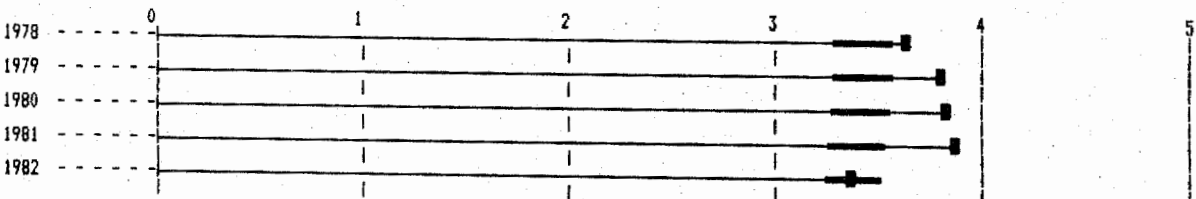
SOUTH DAKOTA



TENNESSEE



TEXAS



UTAH

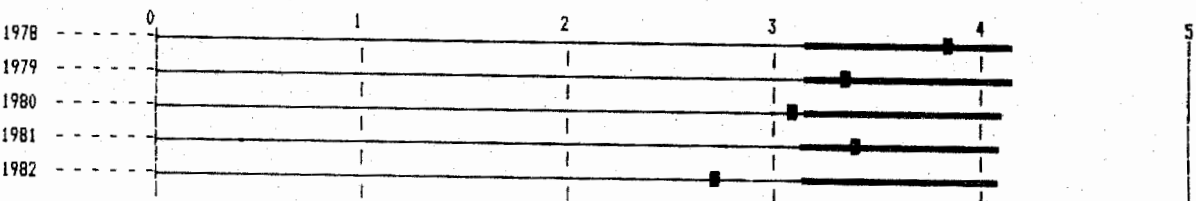
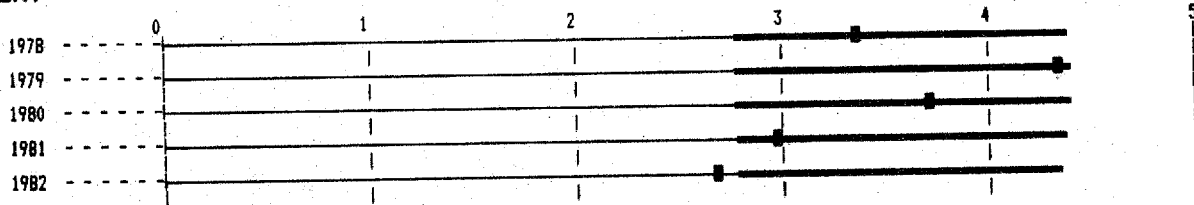
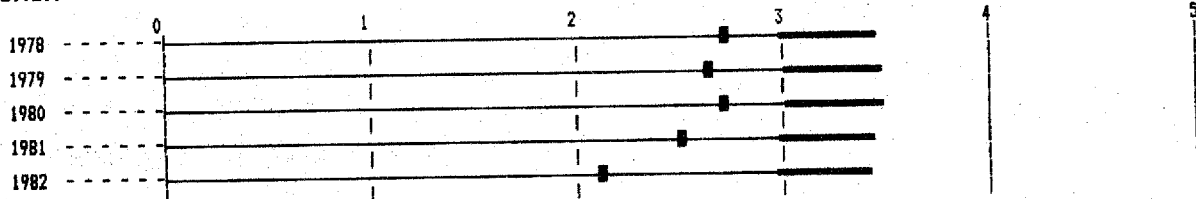


Figure 8 (continued) STATE FATALITY RATES (1978-1982)

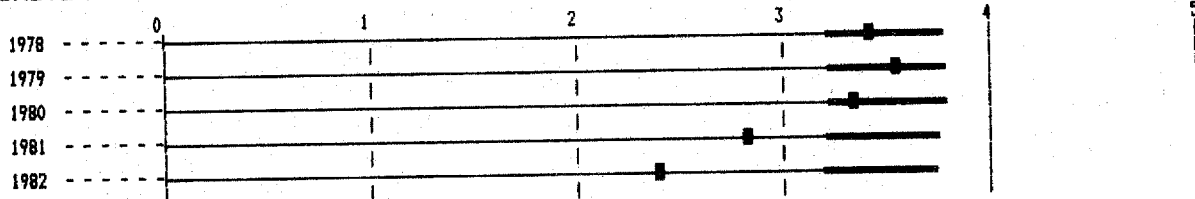
VERMONT



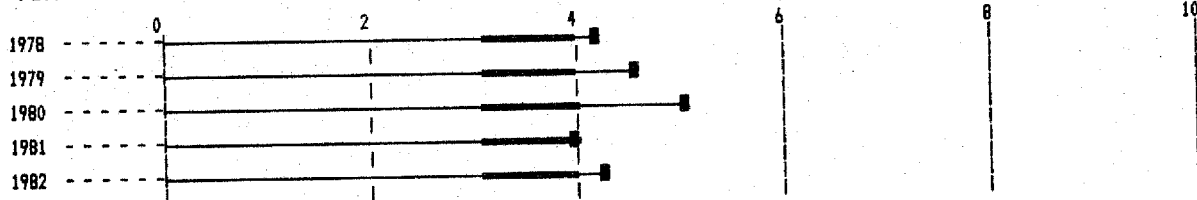
VIRGINIA



WASHINGTON



WEST VIRGINIA



WISCONSIN

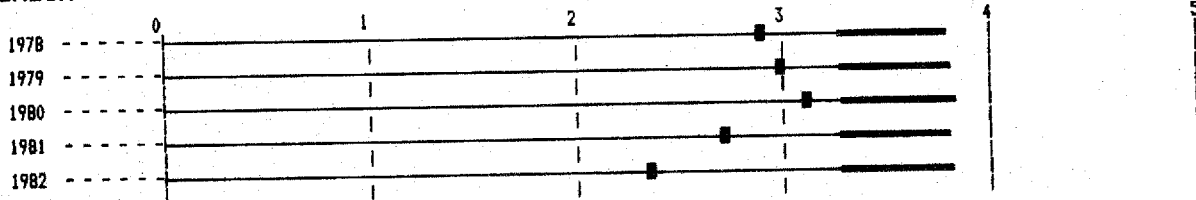
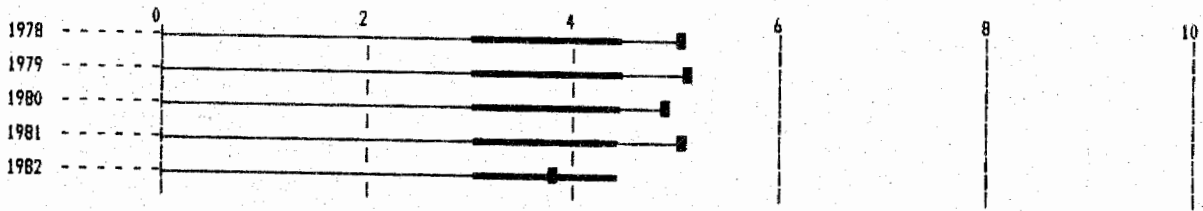
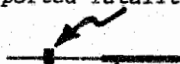



Figure 8 (continued) STATE FATALITY RATES (1978-1982)

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.

REFERENCES

Rate-Density Relationships:

Chatfield, Benjamin V., "Fatal Accidents and Travel Density," Highway Research Record 469, pp. 40-51, 1973.

Smith, R.N., "Predictive Parameters for Accident Rates," California Division of Highways, Analytical Studies Branch, 1973.

National Highway Traffic Safety Administration, "Highway Safety Needs Study - 1981 Update of 1976 Report to Congress," October 1981, DOT-HS-806 283, pp. 72-73.

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.

Provisional Rates:

Morin, D.A., "Application of Statistical Concepts to Accident Data," Highway Research Record 188, 1967, pp. 72-79.

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