

KENTUCKY TRAFFIC ACCIDENT FACTS



1990 REPORT



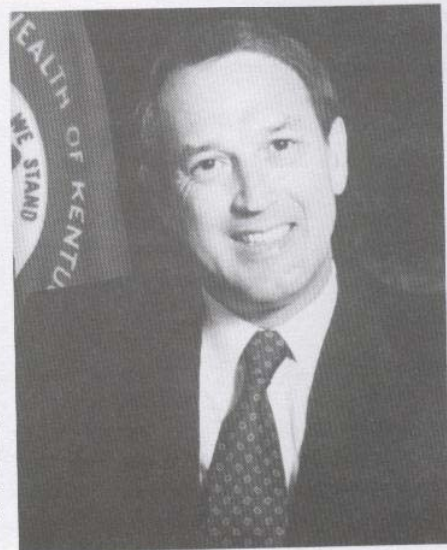
GOVERNOR WALLACE G. WILKINSON
CAPITOL
FRANKFORT, KENTUCKY 40601

My Fellow Kentuckians:

This "Traffic Accident Facts" report for 1990 brings into focus the harsh and often tragic realities associated with traffic accidents.

During 1990, 850 persons were killed on our streets and highways - the highest number of deaths recorded over the past ten years. As shown in this report, an intolerably high number of these deaths and serious injuries were directly attributable to driving under the influence of alcohol. Unfortunately, these statistics identify drunk driving as the predominant and overwhelming cause of serious traffic accidents in our Commonwealth.

Driving while intoxicated is both senseless and intolerable. A tougher "Drunk Driving Bill" was enacted by the Kentucky General Assembly during the special session of the legislature this year. In promoting and supporting this legislation which I signed into law, I recognized that new legislation was just one of several steps needed to reduce the number of highway fatalities and injuries occurring in Kentucky.



In releasing this report, I therefore call on every Kentucky driver to practice better highway safety. In addition to never getting behind the wheel when intoxicated, I urge everyone to observe speed limits and all traffic regulations, as well as other safe-driving practices - especially the habitual use of seat belts and other safety restraints which so often save lives and prevent serious injury.

Together, we can and will make our roads and streets safer for everyone.

Sincerely,

A handwritten signature of Wallace G. Wilkinson in dark ink.

Wallace G. Wilkinson



COMMONWEALTH OF KENTUCKY
KENTUCKY STATE POLICE
919 VERSAILLES ROAD
FRANKFORT 40601

WALLACE G. WILKINSON
GOVERNOR

W. MICHAEL TROOP
ACTING COMMISSIONER
AND
SECRETARY OF JUSTICE

The Honorable Wallace G. Wilkinson
Governor of Kentucky
The Capitol
Frankfort, Kentucky 40601

Dear Governor Wilkinson:

Pursuant to KRS 189.635, the Department of State Police accumulates and tabulates traffic accident reports submitted by law enforcement agencies within the Commonwealth. These responsibilities are carried out for the purpose of determining necessary improvements in traffic safety.

I am pleased to submit this 1990 "Traffic Accident Facts" report which provides statistical information, as well as comprehensive analyses of fatal, injury, and property damage accidents.

It is our hope that the data contained herein will be used for the benefit of law enforcement agencies, national, state, and local organizations, and citizens who are concerned with safe driving and the safety of Kentucky's streets and highways.



Respectfully submitted,

W. Michael Troop
Secretary, Justice Cabinet
Acting Commissioner,
Kentucky State Police

DEDICATION

This 1990 Accident Facts Report

is appropriately

dedicated

to

THE EIGHT HUNDRED-FIFTY CITIZENS

Who were victims of Fatal Traffic Accidents

During 1990

AND TO

THEIR FAMILIES.

All citizens of the Commonwealth of Kentucky
share the sorrow brought about by senseless
tragedies on our streets and highways.

KENTUCKY

TRAFFIC ACCIDENT FACTS

1990 REPORT

Prepared by:

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INTRODUCTION

KENTUCKY'S TRAFFIC ACCIDENT FACTS report for 1990 is based on accident reports submitted to the Kentucky Accident Reporting Unit housed in the Kentucky State Police Information Services Branch, Records Section. As required by *Kentucky Revised Statutes 189.635*, "every law enforcement agency whose officers investigate a vehicle accident of which a report must be made . . . shall file a report of the accident . . . within ten days after investigation of the accident upon forms supplied by the bureau." The stated purpose of this requirement is to utilize data on traffic accidents "for such purposes as will improve the traffic safety program in the Commonwealth." Data contained in this report are based solely on the observations and judgements of the state and local police officers who investigated each accident, entering the information on Kentucky's *UNIFORM POLICE TRAFFIC ACCIDENT REPORT* form. Upon receipt of each report, the Accident Reporting Unit carefully screens the reports for accuracy and reasonableness before coding each item. The reports are then forwarded to Data Entry. Computer tabulations and summaries are again checked for accuracy before information is released or disseminated.

In an effort to comply more fully with the statutory purpose of Kentucky's Accident Reporting System, the 1990 TRAFFIC ACCIDENT FACTS report contains more detailed information than previously provided. It is hoped that the detailed information presented in this report will, in fact, "improve the traffic safety program in the Commonwealth." **Definitions and Terms:** the National *MANUAL ON CLASSIFICATION OF MOTOR VEHICLE TRAFFIC ACCIDENTS* is used to ensure uniformity and compliance with federal requirements. Standard definitions and terms used in this booklet include the following:

Motor Vehicle Traffic Accident: any motor vehicle accident that occurs on a trafficway or that occurs after the motor vehicle runs off roadway but before events are stabilized.

Accident: an unintended event that produces death, injury or damage. The word "injury" includes "fatal injury."

Trafficway: the entire width between property lines or other boundary lines, of every way or place, of which any part is open to the public for purposes of vehicular travel as matter of right or custom.

Fatal Accident: is any motor vehicle accident that results in fatal injuries to one or more persons.

Fatality: a person or persons killed in a fatal accident (also referred to as "persons killed").

Nonfatal Injury Accident: (also referred to as Personal Injury Accident) any motor vehicle accident that results in injury, other than fatal, to one or more persons.

Injured: a person or persons injured in an accident (also referred to as "persons injured").

Property Damage Accident: any motor vehicle accident in which there is no injury to any person, but only damage to a motor vehicle or other road vehicle or to other property, including injury to domestic animals.

Alcohol Involved Accident: any accident in which an operator was observed to have been drinking by the officer investigating the accident.

NOTE: KRS 189.635 requires that "any person operating a vehicle . . . who is involved in an accident resulting in any property damage exceeding \$500 in which an investigation is not conducted by a law enforcement officer shall file a written report of the accident with the state police within ten (10) days of occurrence of the accident . . ." Such reports are not included in the overall data presented in this report.

NOTE: Summary data on Fatal Accidents are included throughout this report. Additional data on Fatal Accidents can be found in the section titled "Kentucky's Fatal Accident Reporting System (FARS)," p.p. 38-41.

NOTE: Previous to 1985, Kentucky utilized a ninety day cut-off for deaths resulting from fatal accidents. As of 1986, persons who died as a result of injuries sustained in a motor vehicle accident are counted as "fatalities" only if death occurred within thirty days from the date of the accident. This change from ninety days to thirty days was made to be consistent with guidelines of the National Highway Traffic Safety Administration.

NOTE: Percentages are frequently used in this report and in the visual graphics. Due to rounding, aggregate percentages do not always equal 100.

NOTE: A graphically illustrated page of important information about Child Restraints (Safety Equipment) is on page 40 of this report. This information is suitable for reproduction and can be used as informational "hand-outs" during presentations on traffic safety.



ACCIDENTS SUMMARY

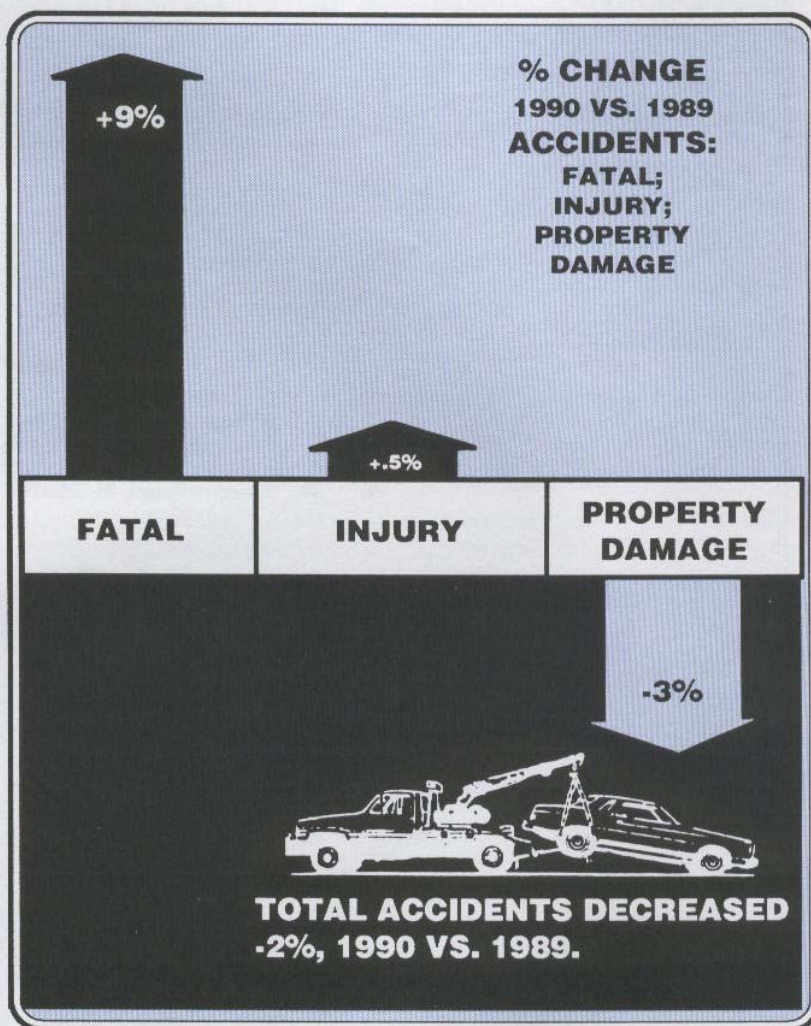
1990 ACCIDENTS SUMMARY

TYPE ACCIDENT REPORTED	1989	1990	% CHANGE
FATAL	696	757	+9%
NON-FATAL INJURY	35,507	35,670	+.5%
PROPERTY DAMAGE ONLY	115,240	111,730	-3%
TOTAL NUMBER REPORTED	151,443	148,157	-2%

757 fatal accidents were reported during 1990, an increase of 9% over 1989.

There were 163 more non-fatal injury accidents, an increase of .5%.

Property damage accidents showed a slight decrease of 3%, with 3,510 less accidents reported.



DEATHS AND INJURIES — 1990 SUMMARY

	1990	1989	% Change
PERSONS KILLED	850	782	+ 9%
PERSONS INJURED	54,834	54,115	+ 1%

FACTS: IN KENTUCKY, ONE OF EVERY 4,235 CITIZENS DIED AS A RESULT OF A FATAL TRAFFIC ACCIDENT DURING 1990.*

IN KENTUCKY, ONE OF EVERY 5 LICENSED DRIVERS WAS INVOLVED IN A TRAFFIC ACCIDENT; ONE IN 2,114 DRIVERS WAS INVOLVED IN A FATAL ACCIDENT.**

IN KENTUCKY, ONE IN 66 CITIZENS WAS INJURED IN A TRAFFIC ACCIDENT.

*Based on 3.6 million population estimate

**Based on 2,358,994 licensed drivers currently registered in Kentucky

850 persons were killed during 1990. The number of traffic fatalities increased + 9%, with 68 more fatalities than during 1989.

54,834 persons were injured during 1990, an increase of + 1% over 1989, or 719 more persons injured.

The right-hand chart compares "Death Rates" for Kentucky vs. national death rates computed by the National Safety Council.

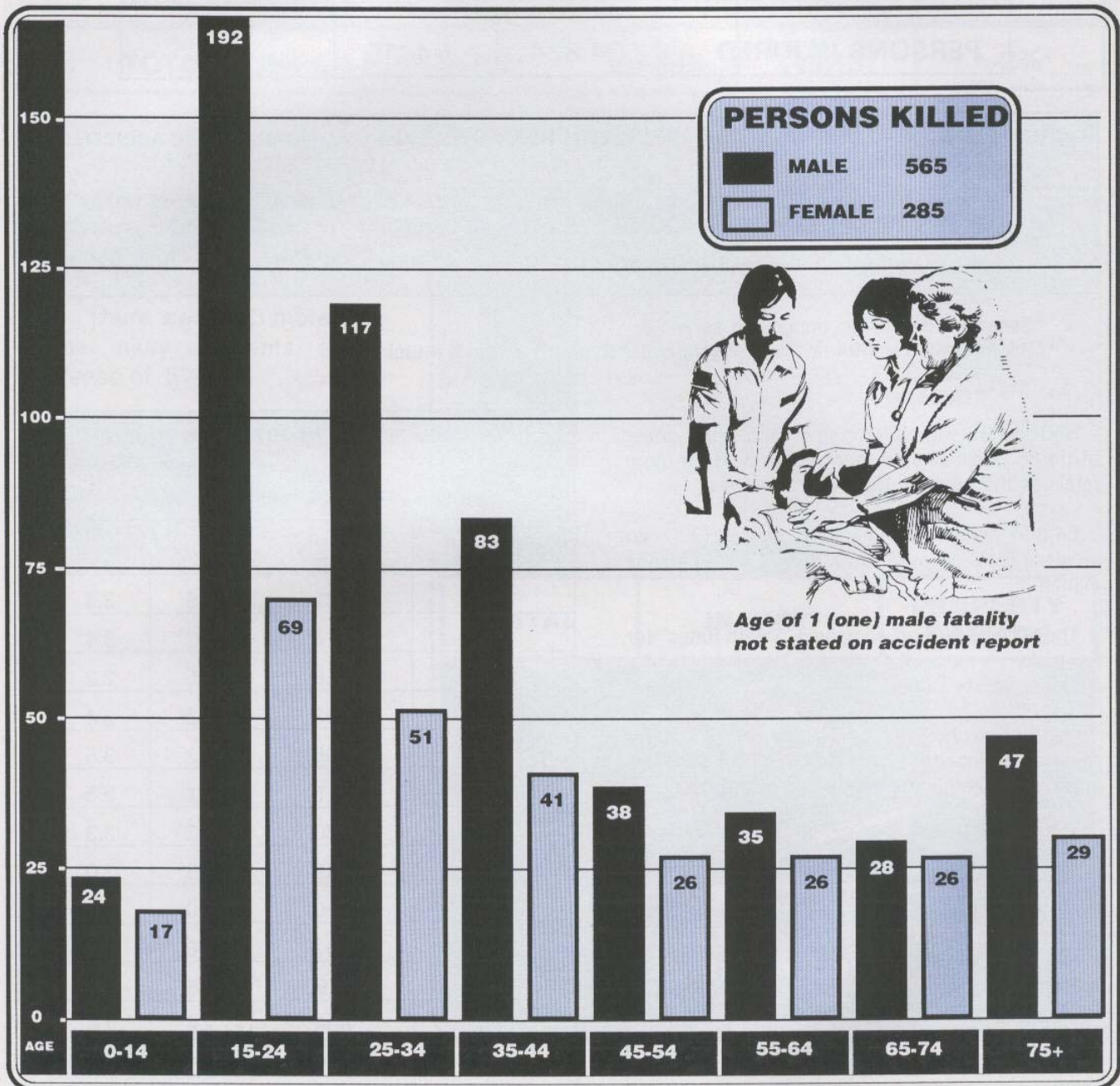
The bottom chart plots persons injured by severity of injury. An incapacitating injury includes those injuries which required transport to a hospital.

TYPE INJURY	NUMBER	%
INCAPACITATING INJURY	10,664	19%
NON-INCAPACITATING INJURY	20,118	37%
POSSIBLE INJURY	24,052	44%
TOTAL	54,834	

DEATH RATES 1975-1990			
Basis: deaths per 100 million miles travelled.*			
YEAR	KILLED	RATE	
		KY	U.S.
1975	882	3.6	3.5
1976	874	3.3	3.4
1977	958	3.5	3.3
1978	893	3.2	3.4
1979	905	3.3	3.5
1980	825	3.1	3.5
1981	830	3.3	3.3
1982	836	3.3	3.0
1983	790	3.0	2.7
1984	767	2.8	2.7
1985	715	2.6	2.8
1986	808	2.8	2.6
1987	849	2.9	2.6
1988	840	2.5	2.5
1989	782	2.4	2.3
1990	850	2.6	2.2

FATALITIES BY AGE AND SEX

The number of persons killed in 1990 Fatal Accidents is shown by age and sex in the chart below. 565 Males versus 285 Females were killed. 31% of all persons killed in traffic fatalities were in the fifteen to twenty-four year old age group. 72 of all persons killed were pedestrians, and 9 were pedalcyclists.



SEVERITY OF INJURY BY TYPE OF ACCIDENT

The chart belows depicts the number of persons killed and injured, by severity of injury, within eleven categories of accidents. As shown in the right-hand percentage column, collisions with moving motor vehicles (66%) and collisions with fixed objects (23%) account for 89% of the crashes in which persons were killed or injured during 1990.

TYPE OF ACCIDENT	Killed	TYPE OF INJURY			% Killed /Injured
		Incapacitating Injury	Non-Incapacitating Injury	Possible Injury	
Non-Collision Overturning	30	299	521	331	2%
Other Non-Collision	37	394	576	572	3%
Collision With Pedestrian	73	493	581	409	3%
Collision With Motor Vehicle (Moving) In Transport	373	6,078	12,629	17,980	66%
Collision With Parked Motor Vehicle	0	0	0	2	Less Than 1%
Collision With Railway Train	8	33	21	16	Less Than 1%
Collision With Pedalcyclist	9	151	303	173	1%
Collision With Deer	0	10	54	84	Less Than 1%
Collision With Other Animal	1	29	43	70	Less Than 1%
Collision With Fixed Object	305	3,037	5,144	4,132	23%
Collision With Other Object	14	140	246	283	1%
TOTAL	850	10,664	20,118	24,052	
% Of All Injuries	2%	19%	36%	43%	

OCCURRENCE OF ACCIDENTS BY TYPE

76% of all accidents reported during 1990 involved moving vehicles.

15% of all accidents involved collisions with fixed objects.

9% of all accidents were other types of collisions (one vehicle with train, pedestrian, animal, etc.)

In the "All other" category are included 1,382 non-collision accidents (1%) resulting from the vehicle overturning and 3,352 other non-collision type accidents (2%).

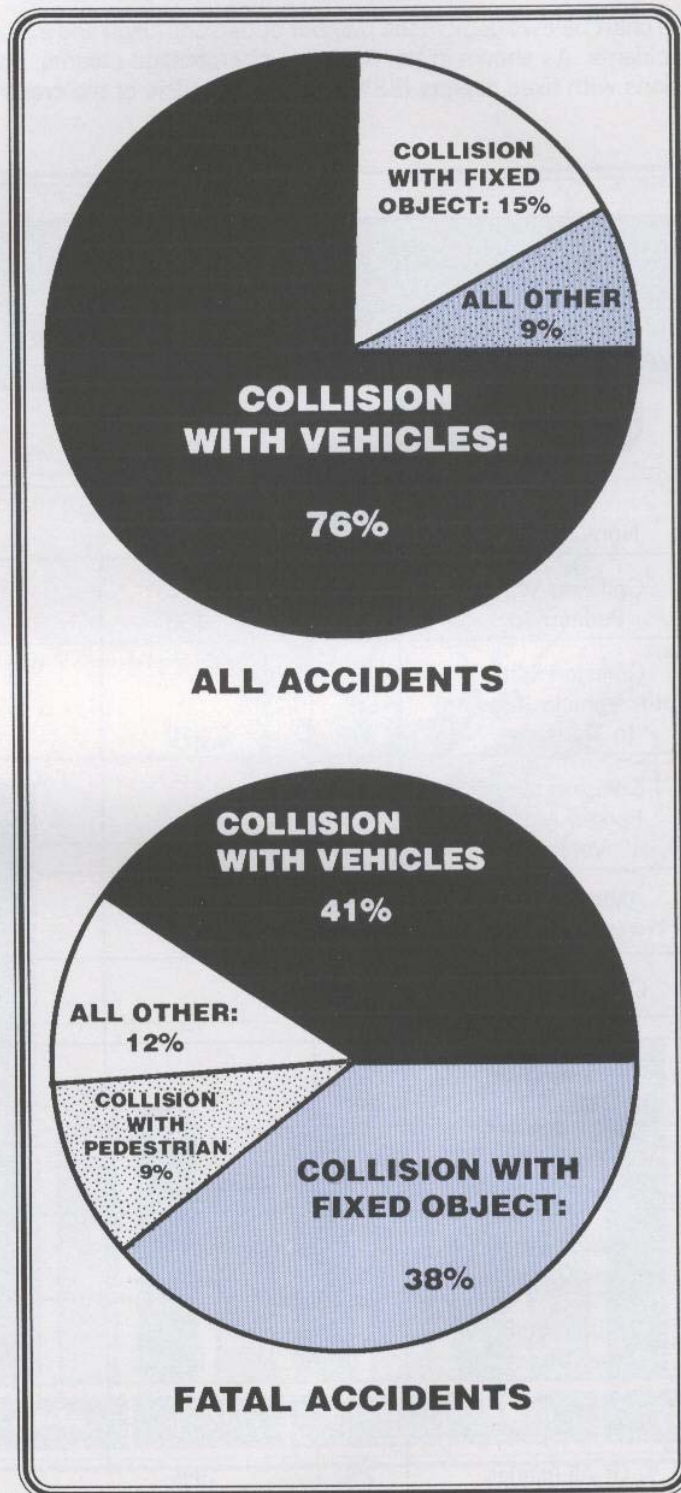
When looking at fatal accidents by themselves, the ratio between types of occurrences is different. 41% of all fatal accidents involved a collision with another vehicle.

38% of the fatal accidents reported during 1990 involved collisions with fixed objects.

9% of the 1990 fatal accidents involved collisions with pedestrians. 12% of the fatal accidents were other type collisions.

Specific types of collisions and the ratio of persons killed in each type of collision are shown on the following page.

In the "All other" category are included 28 fatal non-collisions resulting from the vehicle overturning (4%) and 35 other non-collision type accidents (5%).



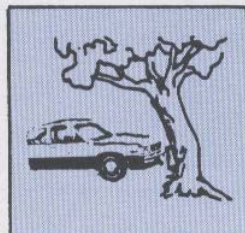
TYPES OF COLLISIONS-1990

Collisions with other motor vehicles were responsible for 76% of all accidents reported during 1990, and accounted for 44% of all fatalities (persons killed). Collisions with fixed objects involved 14% of all accidents, but 36% of fatalities. Types of collisions are depicted below.



COLLISION WITH MOTOR VEHICLE:

Total Accidents:	113,302
% of Total:	76%
Persons Killed:	373
% of Total:	44%



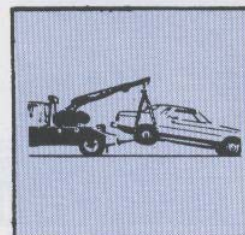
COLLISION WITH FIXED OBJECT:

Total Accidents:	21,521
% of Total:	14%
Persons Killed:	305
% of Total:	36%



COLLISION WITH OTHER OBJECT:

Total Accidents:	2,723
% of Total:	2%
Persons Killed:	14
% of Total:	2%



OTHER (NON-COLLISION):

Total Accidents:	3,352
% of Total:	2%
Persons Killed:	37
% of Total:	4%

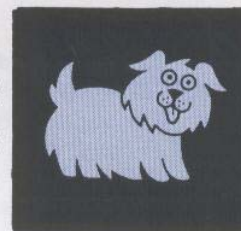


COLLISION WITH PEDESTRIAN:

Total Accidents:	1,486
% of Total:	1%
Persons Killed:	73
% of Total:	9%

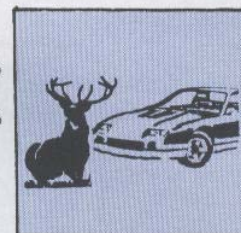
COLLISION WITH ANIMALS (excluding deer):

Total Accidents:	609
% of Total:	0.4%
Persons Killed:	1
% of Total:	0.1%



COLLISION WITH DEER:

Total Accidents:	2,842
% of Total:	2%
Persons Killed:	0
% of Total:	0.0%



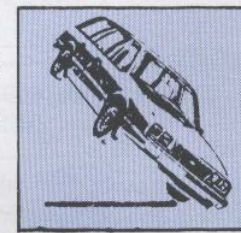
COLLISION WITH PEDALCYCLIST

Total Accidents:	730
% of Total:	0.4%
Persons Killed:	9
% of Total:	1%



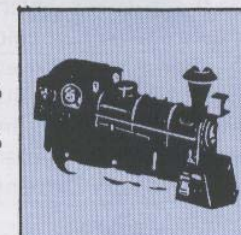
OVERTURNING:

Total Accidents:	1,382
% of Total:	0.9%
Persons Killed:	30
% of Total:	4%



COLLISION WITH RAILWAY TRAIN:

Total Accidents:	117
% of Total:	0.08%
Persons Killed:	8
% of Total:	0.9%



COLLISION WITH PARKED VEHICLE:

Total Accidents:	93
% of Total:	0.06%
Persons Killed:	0
% of Total:	0.0%



COLLISIONS

(Vehicular Action)

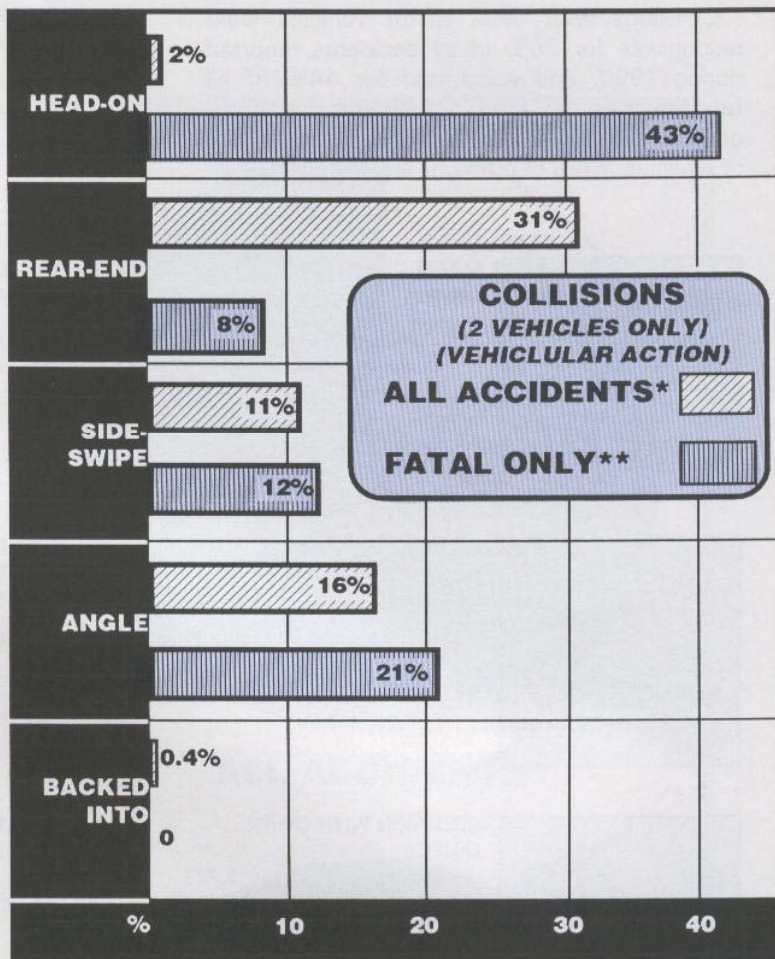
113,302 traffic accidents reported during 1990 involved "two-car" collisions. This represents 76 % of all accidents and 41% of all fatal accidents reported.

The right-hand chart depicts the manner of collision for these crashes, where known.

Head-on collisions accounted for 43 % of the fatal crashes involving more than one vehicle, but only 2% of all accidents.

Rear-end collisions reflect 31% of all collisions, but only 8% of the Fatal Crashes.

Sideswipe collisions (both meeting and passing) reflect 11% of all crashes and 12% of the fatal crashes.



ACCIDENT LOCATIONS — RURAL VS. URBAN

For the purpose of tabulating accident locations, an Urban Area is an area including and adjacent to a municipality or other known place of 5,000 or more population. Rural Areas are those places which do not meet this specification. As shown in the chart below, most accidents (62%) occurred in Urban Areas. However, the majority of Fatal Accidents (80%) took place in Rural Areas of Kentucky during 1990. Although Non-Fatal Injury Accidents were fairly evenly divided between Urban and Rural Areas, nearly twice as many Property Damage Accidents were reported in Urban Areas.



AREA	Number of Accidents	% Total	Fatal	% Total	Non-Fatal Injury	% Total	Prop. Dam.	% Total	Killed	% Total	Injured	% Total
RURAL	56,379	38%	605	80%	17,549	49%	38,225	34%	684	80%	28,016	51%
URBAN	91,778	62%	152	20%	18,121	51%	73,505	66%	166	20%	26,816	49%
TOTAL	148,157		757		35,670		111,730		850		54,832	

TYPE VEHICLES INVOLVED IN ACCIDENTS - 1990

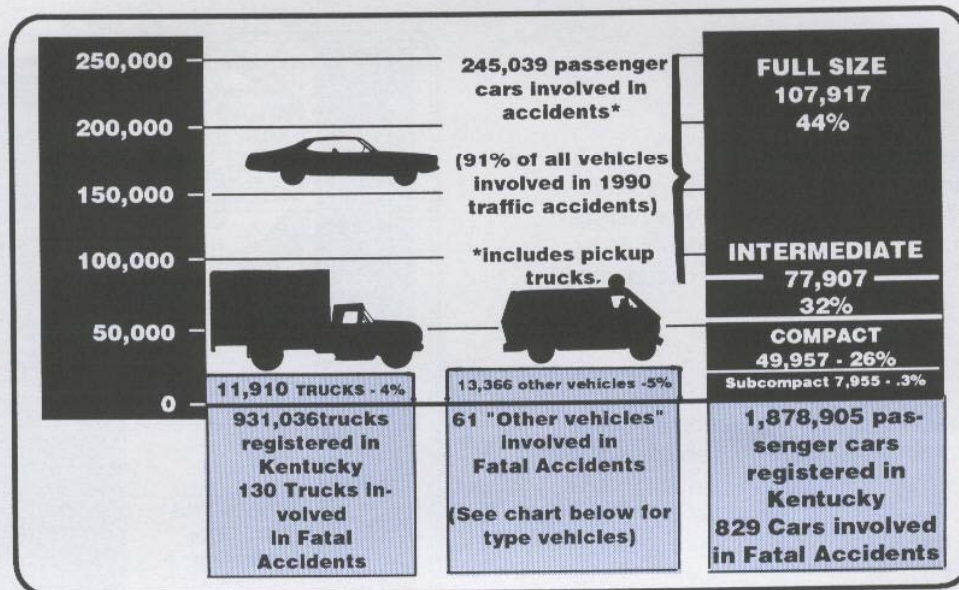
270,315 vehicles were involved in accidents during 1990.

The majority of the vehicles (91%) involved were passenger cars. 4% were semi and/or tractor trailer trucks. Other type vehicles accounted for 5% of all accidents.









*Passenger cars include station wagons, pick-up and panel trucks under 6,000 lbs.

Trucks include Truck and Truck Tractors, Semis, and other Truck Combinations 6,000 lbs. and over.

Other vehicles include those listed below, together with Roadgraders, Paving Equipment, Construction vehicles, and other types not stated on the accident report.



NOTE: The ratio of vehicles involved in accidents to total vehicles registered in Ky. does not account for accidents involving vehicles registered in other states.

 <p>MOTORCYCLES: 1,151 in FATAL Accidents: 33 (31,212 motorcycles registered in Ky.)</p>	 <p>FARM TRACTORS/ EQUIPMENT: 236 in FATAL Accidents: 5</p>
 <p>SCHOOL BUSES: 835 in FATAL Accidents: 2 (7,685 school buses registered in Ky.)</p>	 <p>MOTOR SCOOTERS/ MOTORBIKES: 154 in FATAL Accidents: 0</p>
 <p>BUSES: 521 in FATAL Accidents: 3</p>	 <p>TAXICABS: 63 in FATAL Accidents: 0</p>
 <p>EMERGENCY & MILITARY VEHICLES: 543 in FATAL Accidents: 7</p>	 <p>GO-CARTS (Motorized): 1 in FATAL Accidents: 0</p>
<p>OTHER PUBLICLY OWNED VEHICLES: 447 in FATAL Accidents: 1</p>	
<p>OTHER VEHICLES (Type not stated on Accident Report): 9,410; in FATAL Accidents: 13</p>	

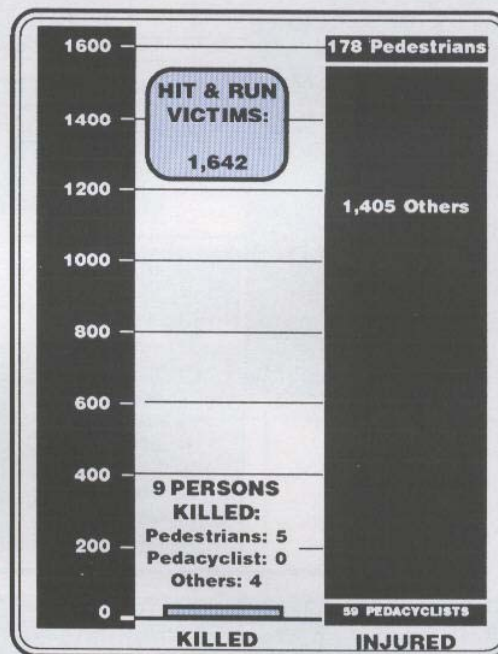
HIT AND RUN ACCIDENTS

Hit and Run Accidents are those accidents in which the driver leaves the collision scene with the intent of evading responsibility. Hit and Run is a serious violation of law. During 1990, 13,413 instances of Hit and Run accidents occurred, of which 9 were Fatal Accidents and 1,183 were injury accidents. As depicted in the chart below, most of Kentucky's Hit and Run Accidents were Property Damage Accidents (91%). 9 persons were killed and 1,633 were injured in 1990 Hit and Run Accidents.

TOTAL	FATAL ACCIDENTS	INJURY ACCIDENTS	PROPERTY DAMAGE ACCIDENTS	PERSONS KILLED	PERSONS INJURED
13,413	9	1,183	12,221	9	1,633

As shown in the right-hand chart, 5 of the 9 persons killed in 1990 Hit and Run Accidents were Pedestrians. 178 Pedestrians and 50 Pedalcyclists were injured in 1990 Hit and Run Accidents. Most in the "Other" category were vehicle occupants.

The types of Hit and Run Accidents, by Directional Analysis, are ranked below. As shown in the Chart, 55% of the 1990 Hit and Run Accidents involved Parked Vehicles or Vehicles in Parking Lots. 35% of the injury accidents were at an intersection and 6% of the fatal accidents involved a collision with a pedestrian.



DIRECTIONAL ANALYSIS HIT AND RUN ACCIDENTS	TOTAL	% OF TOTAL	FATAL	NON FATAL INJURY	PROPERTY DAMAGE
One Vehicle in Parked Position (not in Parking Lot)	2,808	21	0	52	2,756
Accidents in Parking Lot	4,536	34	0	28	4,508
Collision with Fixed Object (Single Vehicle)	906	7	1	86	819
Intersection Accidents	501	4	1	125	375
Sideswipe Accidents		7			
Same Direction	358		0	45	313
Opposite Direction	526		0	93	433
Rear-end in Traffic Lane		6			
One Vehicle Stopped	286		0	71	215
Both Vehicles Moving	483		0	95	388
Collision with Pedestrian	189	1	5	168	16
Collision with Bicycle	68	.5	0	49	19
All Other	2,752	21	7	371	2,379



CONTRIBUTING FACTORS

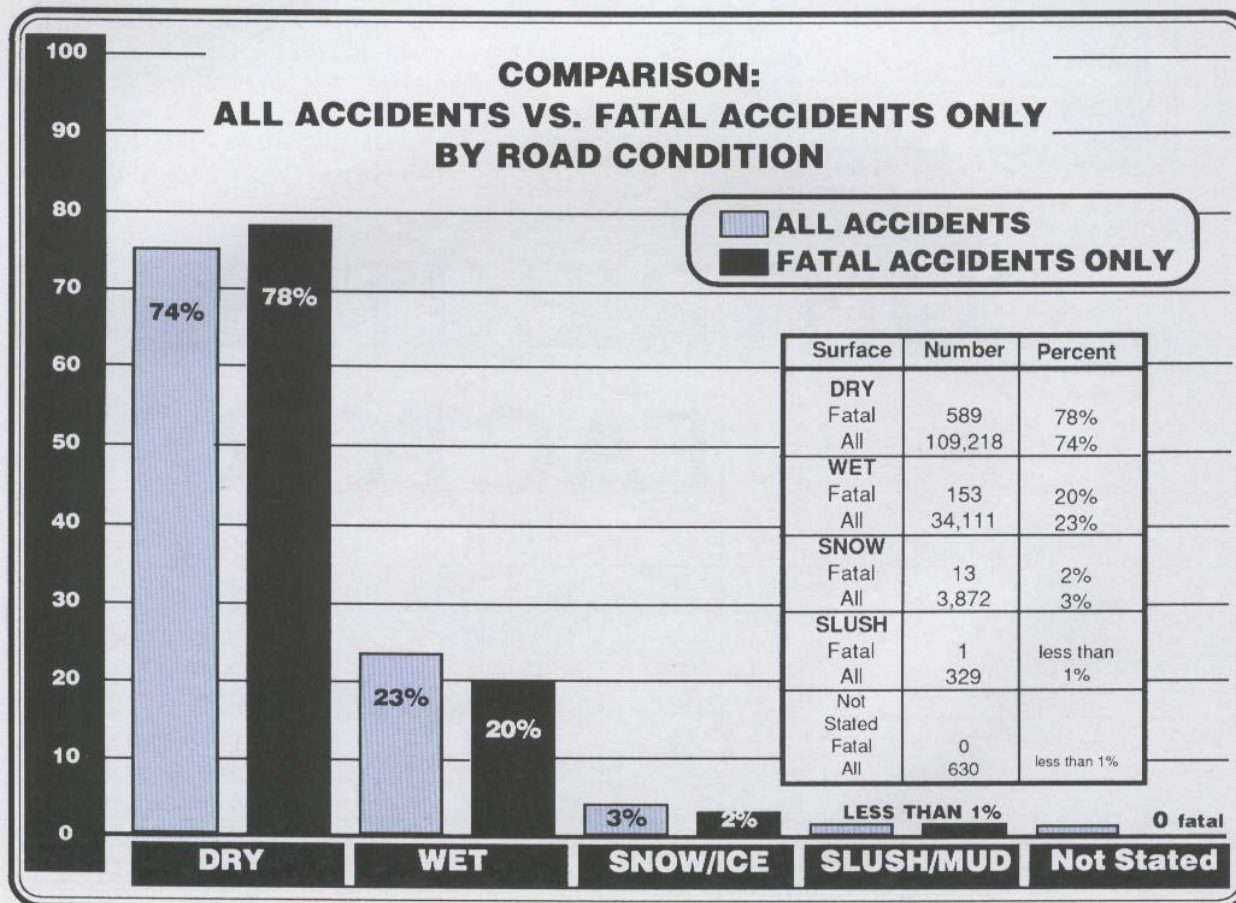
1990 ACCIDENTS—CONTRIBUTING FACTORS AND CONDITIONS

A variety of factors and conditions can contribute to an accident. A summary of major contributing factors is shown in the right-hand chart. Note: the percentages are based on total number of factors involved and are derived from a separate comparison of Human, Vehicular, and Environmental factors, when detected or known by the police officer. Please note that the percentages shown in no way reflect the percent of accidents reported.

CONTRIBUTING FACTOR	ALL	FATAL	NON-FATAL
<i>Driver</i>			
Driver Inattention	38%	13%	28%
Alcohol Involvement	6%	23%	11%
Failure to Yield	17%	14%	18%
Unsafe Speed	8%	28%	14%
<i>Vehicular</i>			
Brakes defective	27%	25%	30%
Tire failure/inadequate	13%	34%	20%
<i>Environmental</i>			
Slippery Surface	44%	46%	49%
View Obstructed, etc.	18%	21%	16%
Animal Action	11%	2%	7%

ROAD CONDITIONS

The chart below compares Fatal with All Accidents for differing road conditions identified by the officer who completed the accident investigation and report. *NOTE: road conditions are tabulated for each accident reported irrespective of whether one or more vehicles were involved.*



CONTRIBUTING FACTORS (CONTD.) PEDESTRIAN ACCIDENTS

PEDESTRIAN ACTION	PEDESTRIANS KILLED AND INJURED BY AGE										
	Pedestrians Killed	Killed and/or Injured	0-4	5-9	10-14	15-19	20-24	25-44	45-64	65-Up	Not Stated
At Intersection	6	78	1	1	9	9	9	15	13	20	1
Crossing With Signal	0	60	0	1	2	6	3	23	9	16	0
Crossing Against Signal	2	58	1	5	10	8	5	15	8	4	2
Not at Intersection	11	233	12	38	33	26	20	49	25	24	6
Getting On or Off Vehicle	2	46	3	4	7	6	6	12	5	2	1
Emerging From Parked Vehicle	1	47	2	4	2	5	7	15	8	4	0
Walking in Roadway	21	221	3	4	13	27	21	67	39	40	7
Playing in Roadway	0	34	4	16	7	2	2	0	0	1	2
Working in Roadway	2	50	0	0	1	3	6	29	8	0	3
Not in Roadway	1	148	7	2	11	23	9	45	21	24	6
Laying in Roadway	7	15	0	1	0	4	3	2	4	1	0
Darting into Roadway	11	371	57	133	82	32	14	31	12	6	4
Pedestrian Drinking	1	28	0	0	0	1	3	15	5	3	1
Pedestrian Drug Related	0	1	0	0	0	1	0	0	0	0	0
Pedestrian Jogging	0	10	0	1	3	1	0	4	1	0	0
Physical Impairment	3	6	0	0	1	0	0	1	3	1	0
Dark Clothing/Not Visible	3	12	0	0	0	2	1	2	4	3	0
In Crosswalk	1	47	0	4	7	3	4	7	12	10	0
Totals	72	1,465	90	214	188	159	113	332	177	159	33

PEDESTRIAN ACTION	VEHICLE ACTION							
	Straight	Over-taking	Right Turn	Left Turn	U-Turn	Backing	Other	Total
At Intersection	32	0	15	19	0	2	19	87
Crossing With Signal	19	0	9	29	0	0	5	62
Crossing Against Signal	49	0	3	6	0	0	3	61
Not at Intersection	173	1	4	12	0	19	56	265
Getting On or Off Vehicle	20	2	0	1	0	9	23	55
Emerging From Parked Vehicle	32	0	0	1	0	6	29	68
Walking in Roadway	159	2	5	8	0	30	40	244
Playing in Roadway	24	0	1	1	0	4	4	34
Working in Roadway	35	0	0	3	0	8	17	63
Not in Roadway	58	0	4	8	0	33	73	176
Laying in Roadway	14	0	0	0	0	0	1	15
Darting into Roadway	367	1	1	4	0	4	17	394
Pedestrian Drinking	17	0	0	2	0	0	12	31
Pedestrian Drug Related	1	0	0	0	0	0	0	1
Pedestrian Jogging	8	0	3	0	0	0	0	11
Physical Impairment	4	0	0	0	0	1	1	6
Dark Clothing/Not Visible	12	0	0	0	0	2	1	15
In Crosswalk	28	2	10	7	0	1	2	50
Totals	1,052	8	55	101	0	119	303	1,638

72 Pedestrians were killed and 1,393 were injured in 1990 traffic accidents*. The charts above depict ages of pedestrian accident victims and the "actions" of the pedestrian vs. the vehicle at the time of the accident.

* 33% of the pedestrians killed or injured were 14 years of age or younger, 10% were age 65 and older.

CONTRIBUTING FACTORS (Contd.) ACCIDENTS INVOLVING PEDESTRIANS

Driver factors determined by the investigating officer are tabulated in the right-hand charts.

In accidents involving pedestrians, factors include:

Traffic rule violations*	24%
Driver inattention	35%
Alcohol/Drugs	8%

Fatal Accidents	71
Injury Accidents	1,340
Property Damage Accidents	75
TOTAL	1,486
KILLED	73
INJURED	1,483

** 1,483 pedestrians were injured

***73 pedestrians were killed

ACCIDENTS INVOLVING SCHOOL AGE CHILDREN

In accidents involving school-age children, factors include:

Traffic rule violations*	46%
Driver inattention	30%
Alcohol/Drugs	6%

Fatal Accidents	75
Injury Accidents	3,519
Property Damage Accidents	0
TOTAL	3,594
KILLED**	93
INJURED**	8,444

Driver factors contributing to accidents involving school buses include:

Traffic rule violations*	33%
Driver inattention	39%

Fatal Accidents	2
Injury Accidents	127
Property Damage Accidents	693
TOTAL	822
KILLED	2
INJURED	342

*Percentages for Traffic Rule Violations include: Unsafe Speed; Failure to yield Right of Way; Following too close; Improper Passing; Disregard of Traffic Controls; & Turning Improperly.

CONTRIBUTING FACTORS	All Accidents	Fatal Accidents	Nonfatal Injury Accidents
Unsafe Speed	49	8	38
Failed To Yield Right of Way	86	1	82
Following Too Close	3	1	2
Improper Passing	6	0	6
Disregard of Traffic Controls	21	0	21
Turning Improperly	3	0	2
Alcohol Involvement	56	6	47
Drug Involvement	1	0	1
Sick	0	0	0
Fell Asleep	4	1	2
Lost Consciousness	2	0	2
Driver Inattention	238	8	218
Distraction	27	3	24
Physical Disability	5	0	5
Other	177	7	164
None Detected	875	52	782
Not Stated	129	5	112
Totals	1,682	92	1,508

SCHOOL-AGE CHILDREN			
CONTRIBUTING FACTORS	All Accidents	Fatal Accidents	Nonfatal Injury Accidents
Unsafe Speed	419	23	396
Failed To Yield Right of Way	671	8	663
Following Too Close	127	1	126
Improper Passing	39	1	38
Disregard of Traffic Controls	185	4	181
Turning Improperly	51	0	51
Alcohol Involvement	181	13	168
Drug Involvement	18	2	16
Sick	7	1	6
Fell Asleep	31	4	27
Lost Consciousness	9	1	8
Driver Inattention	973	14	959
Distraction	92	1	91
Physical Disability	4	0	4
Other	389	11	378
None Detected	3,213	53	3,160
Not Stated	130	3	127
Totals	6,540	140	6,400

SCHOOL BUS ACCIDENTS			
CONTRIBUTING FACTORS	All Accidents	Fatal Accidents	Nonfatal Injury Accidents
Unsafe Speed	48	2	13
Failed To Yield Right of Way	123	0	30
Following Too Close	47	0	13
Improper Passing	8	0	1
Disregard of Traffic Controls	17	0	9
Turning Improperly	32	0	1
Alcohol Involvement	14	0	6
Drug Involvement	1	0	1
Sick	0	0	0
Fell Asleep	7	0	2
Lost Consciousness	1	0	0
Driver Inattention	331	0	42
Distraction	29	0	9
Physical Disability	3	0	0
Other	170	0	18
None Detected	762	2	137
Not Stated	89	0	3
Totals	1,682	4	285

CONTRIBUTING FACTORS (Contd.)

Driver factors contributing to accidents involving trains include:

Failure to yield right of way:	24%
Driver inattention	24%
Disregard of traffic controls:	14%

Fatal Accidents	7
Injury Accidents	47
Property Damage Accidents	65
TOTAL	119
KILLED	8
INJURED	71

Driver factors contributing to accidents involving trucks include:

Violations of traffic rules:	33%
Alcohol/drugs:	2%

Fatal Accidents	124
Injury Accidents	2,172
Property Damage Accidents	8,813
TOTAL	11,109
KILLED	145
INJURED	3,158

Driving factors contributing to accidents involving bicycles include:

Violation of traffic rules:	11%
-----------------------------	-----

Fatal Accidents	9
Injury Accidents	607
Property Damage Accidents	114
TOTAL	730
KILLED	9
INJURED	627

*627 of those injured were bicyclists.

TRAINS

CONTRIBUTING FACTORS	All Accidents	Fatal Accidents	Nonfatal Injury Accidents
DRIVERS			
Unsafe Speed	8	1	4
Failed To Yield Right of Way	36	4	17
Following Too Close	0	0	0
Improper Passing	0	0	0
Disregard of Traffic Controls	22	1	13
Turning Improperly	0	0	0
Alcohol Involvement	11	1	4
Drug Involvement	1	0	1
Sick	0	0	0
Fell Asleep	0	0	0
Lost Consciousness	0	0	0
Driver Inattention	37	1	17
Distraction	0	0	0
Physical Disability	0	0	0
Other	12	0	2
None Detected	17	1	9
Not Stated	5	0	0
Totals	149	9	67

TRUCKS

CONTRIBUTING FACTORS	All Accidents	Fatal Accidents	Nonfatal Injury Accidents
DRIVERS			
Unsafe Speed	635	24	296
Failed To Yield Right of Way	1,512	35	432
Following Too Close	441	2	125
Improper Passing	200	2	40
Disregard of Traffic Controls	218	8	86
Turning Improperly	431	4	45
Alcohol Involvement	264	10	124
Drug Involvement	7	0	5
Sick	8	0	5
Fell Asleep	135	9	52
Lost Consciousness	14	0	6
Driver Inattention	4,192	22	642
Distraction	211	5	55
Physical Disability	26	1	5
Other	2,000	22	336
None Detected	10,043	121	2,139
Not Stated	1,018	10	85
Totals	21,360	275	4,478

BICYCLES

CONTRIBUTING FACTORS	All Accidents	Fatal Accidents	Nonfatal Injury Accidents
DRIVERS			
Unsafe Speed	16	1	15
Failed To Yield Right of Way	56	0	51
Following Too Close	1	0	1
Improper Passing	8	0	8
Disregard of Traffic Controls	4	0	4
Turning Improperly	3	0	3
Alcohol Involvement	14	1	11
Drug Involvement	0	0	0
Sick	0	0	0
Fell Asleep	3	0	3
Lost Consciousness	0	0	0
Driver Inattention	64	1	55
Distraction	3	0	3
Physical Disability	0	0	0
Other	35	0	27
None Detected	508	7	414
Not Stated	37	0	33
Totals	752	10	628

CONTRIBUTING FACTORS (Contd.)

Driver factors contributing to accidents involving mopeds include:

Violation of traffic rules: 23%
Driver inattention: 15%

Fatal Accidents	1
Injury Accidents	90
Property Damage Accidents	26
TOTAL	117
KILLED	1
INJURED	103

Driver factors contributing to accidents involving motorcycles include:

Violation of traffic rules: 44%
Driver inattention: 28%
Alcohol/Drugs: 11%

Fatal Accidents	32
Injury Accidents	843
Property Damage Accidents	257
TOTAL	1,132
KILLED	34
INJURED	1,029

*Note: 19 of the injured persons were pedestrians and 6 were pedalcyclists.

The chart on the right shows the number of motorcycle drivers with and without helmets killed and injured in motorcycle accidents. The pie chart shows the relationship between fatal, injury, and property damage accidents involving motorcycles.

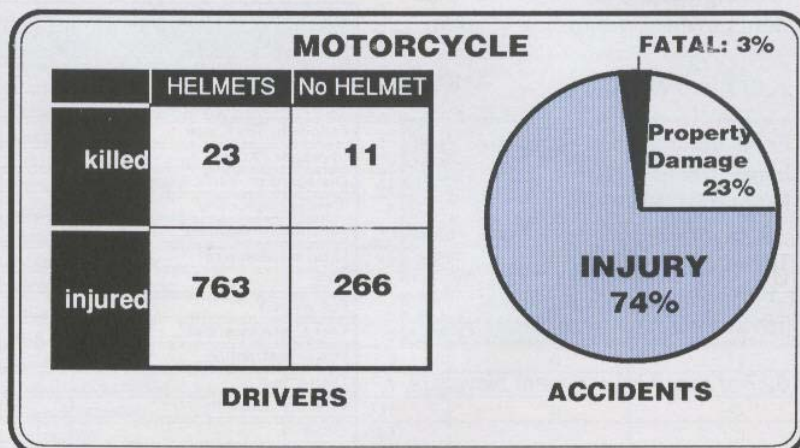
34 Motorcycle drivers were killed; 1,029 drivers were injured. Of those drivers killed 32% were not wearing helmets; 26% of the injured motorcycle drivers were wearing helmets.

MOPEDS

CONTRIBUTING FACTORS	All Accidents	Fatal Accidents	Nonfatal Injury Accidents
DRIVERS			
Unsafe Speed	15	0	12
Failed To Yield Right of Way	25	0	18
Following Too Close	2	0	1
Improper Passing	2	0	2
Disregard of Traffic Controls	3	0	2
Turning Improperly	3	0	2
Alcohol Involvement	18	0	17
Drug Involvement	0	0	0
Sick	0	0	0
Fell Asleep	0	0	0
Lost Consciousness	0	0	0
Driver Inattention	34	0	28
Distraction	1	0	0
Physical Disability	0	0	0
Other	18	0	16
None Detected	77	0	55
Not Stated	16	2	6
Totals	215	2	160

MOTORCYCLES

CONTRIBUTING FACTORS	All Accidents	Fatal Accidents	Nonfatal Injury Accidents
DRIVERS			
Unsafe Speed	195	17	160
Failed To Yield Right of Way	216	4	174
Following Too Close	33	1	20
Improper Passing	28	2	18
Disregard of Traffic Controls	29	1	19
Turning Improperly	19	0	11
Alcohol Involvement	133	10	110
Drug Involvement	5	0	3
Sick	1	0	0
Fell Asleep	3	0	3
Lost Consciousness	1	0	1
Driver Inattention	335	9	236
Distraction	17	0	10
Physical Disability	4	1	2
Other	153	4	105
None Detected	770	11	531
Not Stated	87	4	43
Totals	2,030	64	1,447



CONTRIBUTING FACTORS (Contd.) MULTIPLE FATAL ACCIDENTS

Driver contributing factors which were determined by the investigating officer for multiple fatal accidents are tabulated in the right-hand chart.

As depicted below, unsafe speed, failure to yield and alcohol involvement were noted in many of the multiple fatal accidents.



CONTRIBUTING FACTORS (Driver)	NUMBER
Unsafe Speed	34
Failing to Yield Right of Way	13
Following Too Close	0
Improper Passing	1
Disregard of Traffic Controls	4
Alcohol Involvement	15
Fell Asleep	1
Driver Inattention	10
Distraction	1
Turning Improperly	1
Other	12
None Detected	52
Not Stated on Report	2
Sick	0
Totals	146

SAFETY EQUIPMENT

The numbers of accidents in which a vehicle occupant (driver or other passenger) was using safety equipment are tabulated below, together with the numbers of accidents in which none of the occupants were restrained. The "low" usage of restraints is demonstrated by the percentages indicated.

TYPE OF EQUIPMENT USED	ACCIDENT TOTAL	FATAL	INJURY	PROPERTY DAMAGE
Lap Belt	13,461	50	3,182	10,229
Harness/Lap Belt	66,408	194	15,362	50,852
Harness Only	124	5	39	80
Child Safety Seat	4,217	12	1,163	3,042
Helmets	775	23	609	143
Air Bag	168	4	105	59
Other Passive Restraints	103	0	37	66
Total Accidents Restraints Used	82,256 (58%)	288 (38%)	20,497 (57%)	64,471 (58%)
Total Accidents Restraint Not Used*	62,901 (42%)	469 (62%)	15,173 (43%)	47,259 (42%)

*Includes accidents in which it was not known whether a restraint was used.

Note: Additional data on Safety Equipment can be found on pages 40 & 41 (for FATAL Accidents only).

TRUCK ACCIDENTS (Contributing Factors & Alcohol Involvement)

Vehicular factors, as noted by the investigating officer on the accident report, are tabulated below for accidents involving trucks. 1,455 such factors were noted as contributing to the accident. Defective Brakes (23%) accounted for 340 of the contributing factors. Other significant factors were Tire Failure (9%) and Over or Improper Load (5%).

Vehicular Factors	All Accidents	Fatal Accidents	Non-Fatal Injury Accidents
Brakes Defective	340	6	94
Headlights Defective	3	0	0
Other Lighting Defects	62	3	28
Steering Failure	45	0	14
Tire Failure/Inadequate	144	3	47
Tow Hitch Defective	41	1	4
Over or Improper Load	107	2	24
Oversized Load on Vehicle	86	0	11
Other	627	6	90
None Detected	18,376	220	3,841
Not Stated	834	4	63
Total	20,665	245	4,216

The chart below plots accidents involving trucks by location, or type highway and street. As indicated, most truck accidents occurred on US and State numbered routes (50%), with 71% of the fatal accidents and 68% of the injury accidents reported on US and State numbered routes.

Location of Truck Accidents	All Accidents	Fatal Accidents	Injury Accidents
Interstates	1,366	17	356
Other U.S. Route Numbered	2,773	49	723
State Routes	2,790	40	760
Other Major Arterial	191	8	44
County Roads	658	4	57
Local Streets	3,331	6	232
TOTALS	11,109	124	2,172

Alcohol involved truck accidents totaled 359, including 17 fatal and 165 injury accidents, where the driver was suspected to have been drinking, as shown below.

Alcohol Involved Truck Accidents	All Accidents	Fatal Accidents	Injury Accidents
Total, statewide	359	17	165

The residence of drivers involved in truck accidents are shown below. 23% of the drivers were non-residents of Kentucky, with 25% of the drivers involved in fatal accidents non-residents and 20% of the drivers involved in injury accidents non-residents.

Residence of Drivers in Truck Accidents	All Accidents	Fatal Accidents	Injury Accidents
Local resident	12,405	155	2,967
Other Kentucky Driver	1,293	19	276
Non-Resident (out-of-state) Driver	4,322	59	822
Not Stated	402	1	26
TOTALS	18,422	234	4,091

DRIVER INVOLVEMENT - 1990 ACCIDENTS



RESIDENCE OF DRIVER



244,667 drivers were involved in accidents during 1990. 1,112 drivers were involved in fatal accidents. The chart below tabulates driver involvement by residence and shows that most drivers (84%) were residents of the locality where the accident occurred. NOTE: many drivers in the "unknown" category are the result of "Hit and Run" accidents where the drivers' identities remain unknown.

INVOLVEMENT BY RESIDENCE

RESIDENCE OF DRIVER	Number Involved In Accidents	Percent of Total	Number Involved In Fatal Accidents	Percent of Total
Local Resident	205,874	84	907	82
Residing Elsewhere in State	8,233	3	70	6
Non-Resident*	19,546	8	126	11
Unknown	11,014	5	9	0.8
TOTAL	244,667		1,112	



SEX OF DRIVER



SEX OF DRIVERS INVOLVED IN ACCIDENTS

As shown in the chart below, 58% of the drivers involved in accidents during 1990 were male; 38% were female. In fatal accidents 73% of the drivers were male; 26% were female. NOTE: a considerable number of drivers in the "unknown" category resulted from "Hit and Run" accidents where the drivers' identities remain unknown.

TOTAL ACCIDENTS

Sex	# IN ACCIDENTS	% IN ACCIDENTS*
MALE	140,850	58
FEMALE	93,198	38
NOT STATED	10,585	4
TOTAL	244,633	

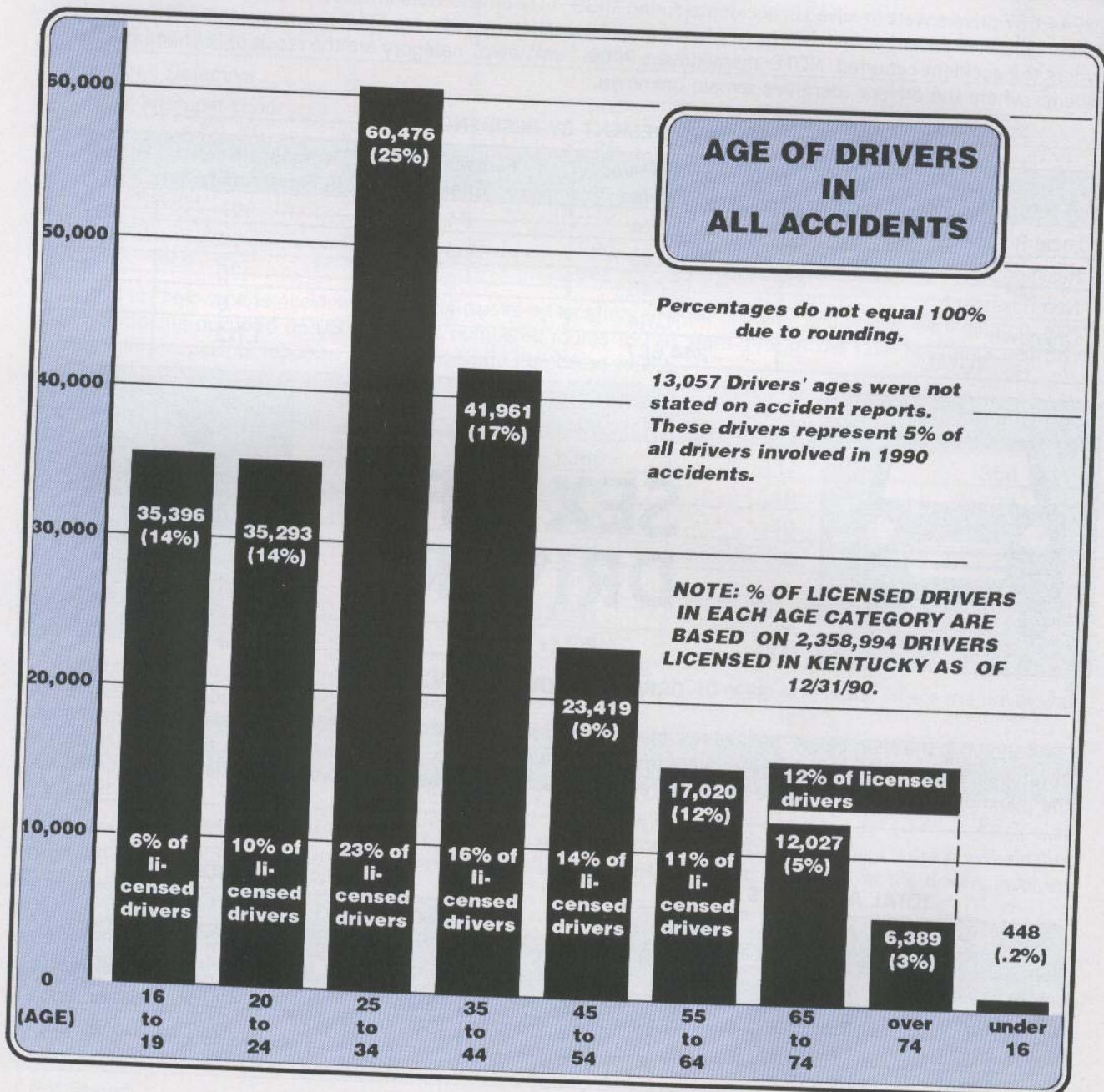
FATAL ACCIDENTS

Sex	# IN ACCIDENTS	% IN ACCIDENTS*
MALE	814	73
FEMALE	290	26
NOT STATED	8	0.7
TOTAL	1,112	

*Percentages do not equal 100% due to rounding

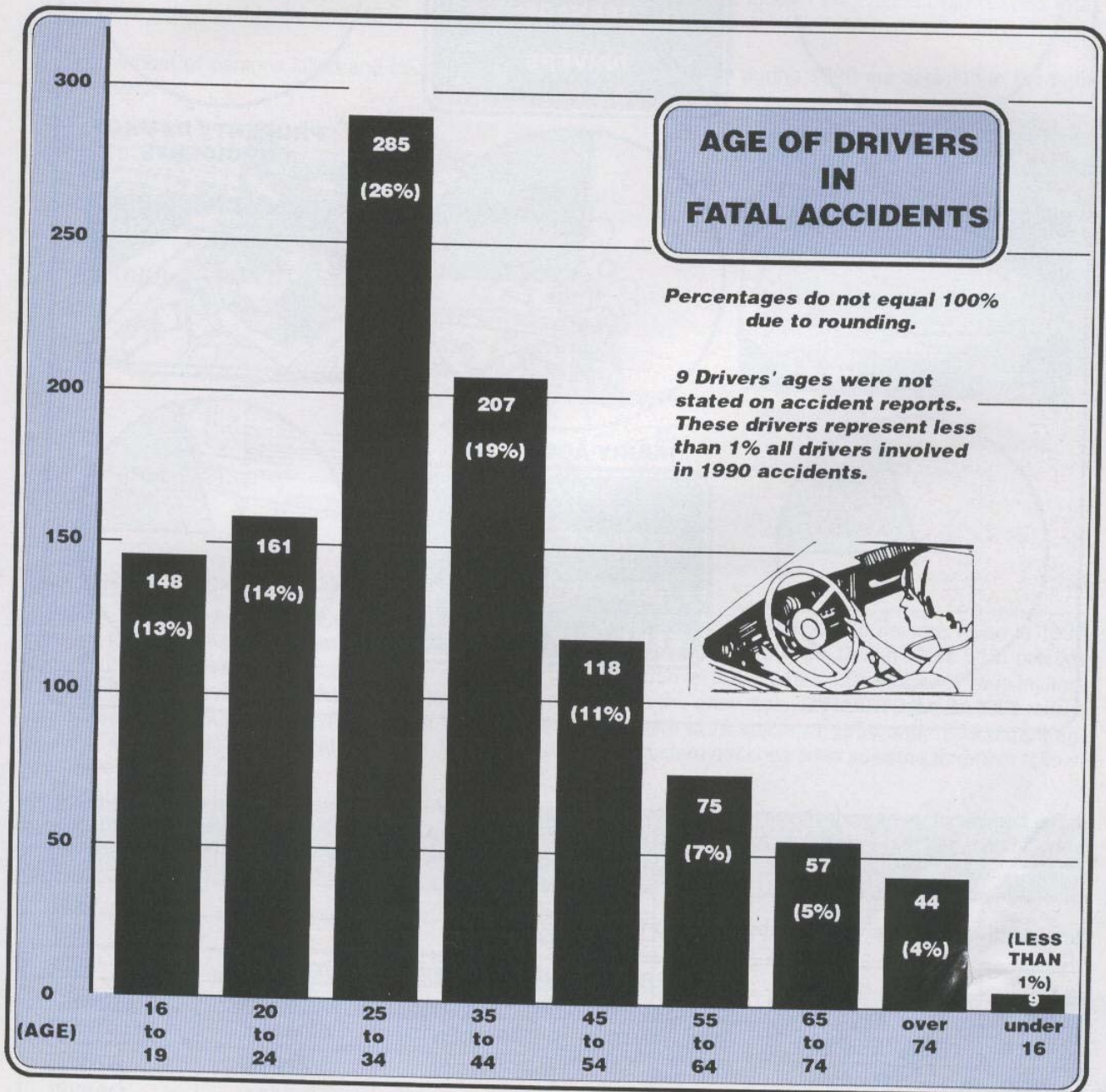
AGE OF DRIVERS - 1990 (All Accidents)

The chart below groups the ages of 244,633 drivers involved in 1990 traffic accidents in Kentucky, showing the number of drivers involved, the percentage of accidents (in parenthesis), and the percentage of licensed drivers for each age category. A comparison of the two percentage factors indicates a relatively low accident rate for the following age groups: 45-54, 55-64; and drivers over 65 years of age. Relatively high accident rates are indicated for the 16-19, and 20-24 age group. The 25-34 and 35-44 age groups are similar when comparing the two percentage factors. NOTE: This data does not differentiate drivers "at-fault" versus drivers "not-at-fault."



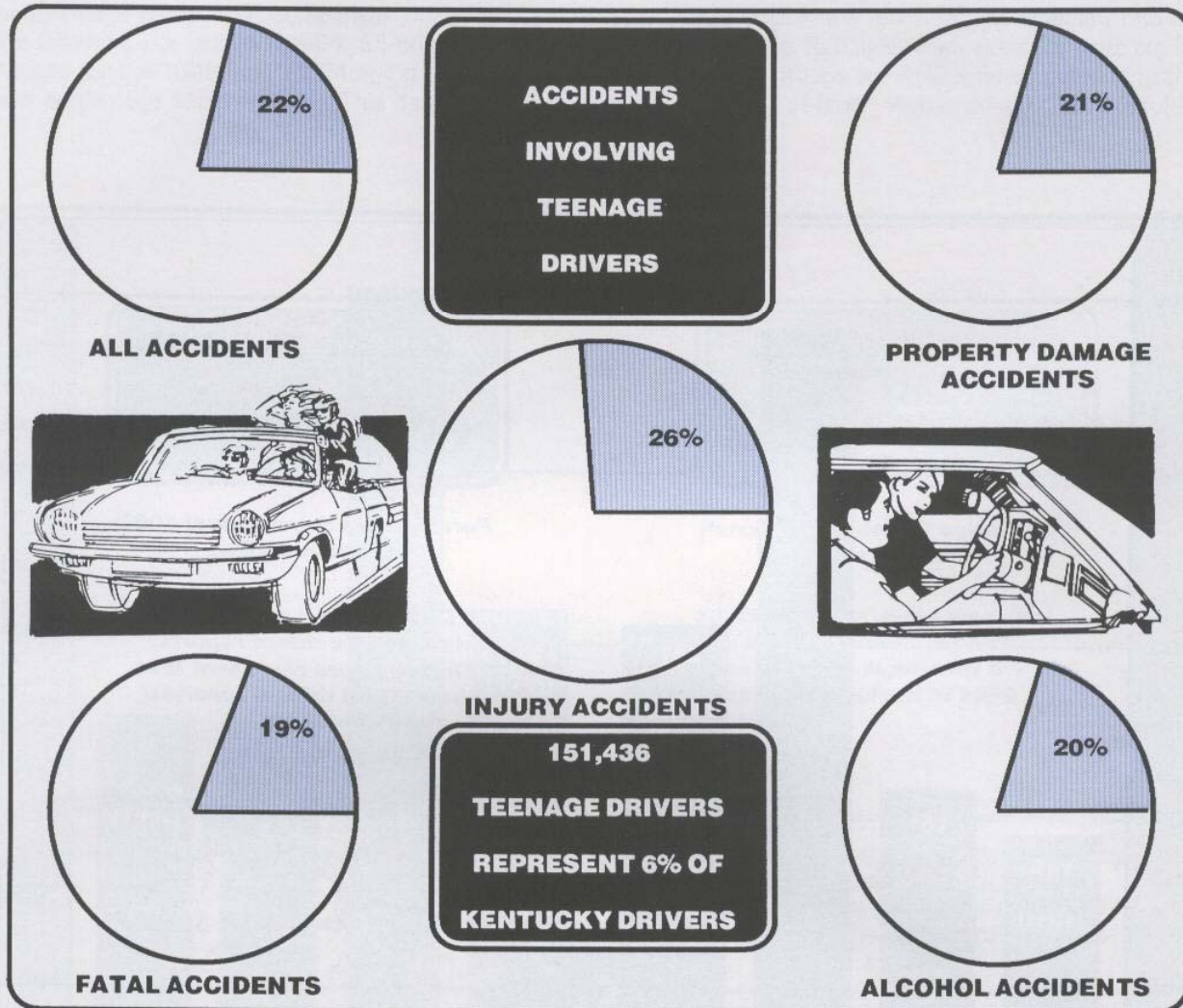
AGE OF DRIVERS - 1990 (Fatal Accidents Only)

The chart groups the ages of 1,112 drivers involved in 1990 Fatal Accidents. Percentages are based on drivers involved in Fatal Accidents during 1990 and includes 9 drivers whose ages were not stated on the accident report.



ACCIDENTS INVOLVING TEENAGE DRIVERS

The percentage of teenage drivers (versus other age groups) involvement in 1990 accidents (by type) are shown below, irrespective of the driver at fault in the accidents reported.



The number of teenage drivers involved in accidents, together with Alcohol Related Accidents, are shown below. It should be noted that tabulations for "Alcohol Related Accidents" were derived from the total number of suspected drinking drivers.* As shown, 32,482 teenage drivers were involved in traffic accidents during 1990. Teenage drunk drivers decreased by 5,044 drivers, or 13% from the previous year.

*Irrespective of sobriety tests subsequent to the accident.

NUMBER OF TEENAGE DRIVERS INVOLVED IN					
YEAR	ALL ACCIDENTS	FATAL ACCIDENTS	INJURY ACCIDENTS	PROPERTY DAMAGE	ALCOHOL RELATED
1990	32,482	146	9,282	23,054	1,670
1989	37,526	148	10,179	27,199	1,199
1988	36,720	139	9,764	26,817	1,661

ALCOHOL INVOLVED ACCIDENTS - 1990

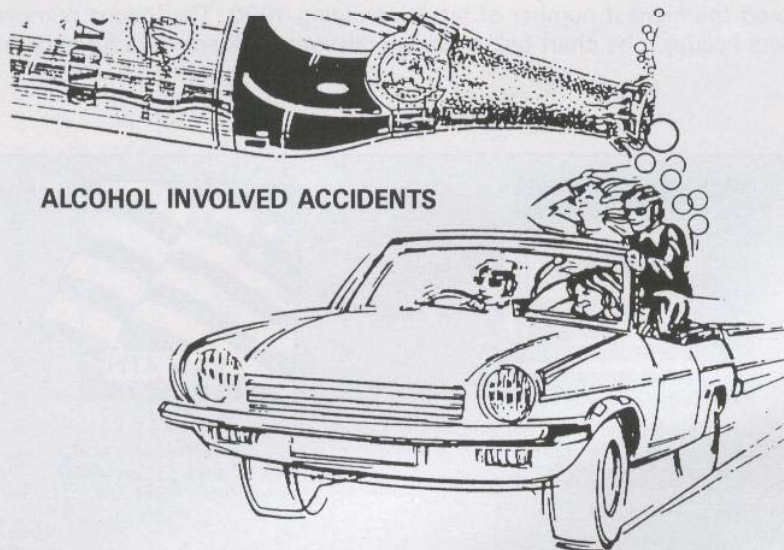
An alcohol involved accident is any accident in which the driver was determined to have been drinking. This determination is made by the officer investigating the accident - irrespective of whether or not sobriety tests later established that the driver was "legally drunk" (.10 or above blood alcohol content).

NOTE: The number of accidents in which a drinking driver was involved is tabulated for each county on pages 32-34.

Fatal:	303
Injury:	3,891
Property Damage:	3,965
TOTAL:	8,159

8,159 alcohol involved accidents were reported during 1990. 4% of the alcohol involved accidents were fatal, 48% were injury accidents, and 48% resulted in property damage.

The number of persons killed and injured in alcohol involved accidents during 1990 are depicted in the right-hand chart.



Killed:*	336
Injured:**	6,181
Incapacitating Injuries:	1,874
Non-Incapacitating Injuries:	2,563
Possible Injuries:	1,744

*15 Pedestrians and 1 Bicyclists were killed.

**70 Pedestrians and 13 Bicyclists were injured.

Comparison with previous years

During 1990 alcohol involved accidents decreased by six percent over 1989. The 336 persons killed in 1990 reflect an increase of seven percent when compared with the 315 persons killed in 1989. During 1990, 6,181 persons were injured in alcohol related accidents, an increase of four percent over 1989 when 5,951 persons were injured.

Looking at the seven year period (1984 to 1990), as depicted in the chart below, variable increases/decreases can be seen. It should be noted that most of these decreases were attributable to 1984 and 1985 data. Kentucky's "slammer bill" became effective on July 13, 1984. Fatal Accident data has been adjusted to reflect follow-up studies of drivers.

YEAR	TOTAL ACCIDENTS (Alcohol Involved)	% INCREASE/ DECREASE OVER PREVIOUS YEAR	TOTAL KILLED	(%) +/-	TOTAL INJURED	(%) +/-
1990	8,159	- 6%	336	+ 7%	6,181	+ 4%
1989	7,670	- 4%	319	- 18%	5,814	- 3%
1988	8,014	+ 4%	389	+ 9%	5,992	+ 2%
1987	7,671	- 1%	358	+ 4%	5,879	+ 5%
1986	7,761	+ 0.2%	343	+ 19%	5,606	+ 6%
1985	7,744	- 10%	289	- 9%	5,297	- 11%
1984	8,639	- 11%	315	- 14%	5,951	- 10%

DAY AND TIME OF OCCURRENCE - 1990 ACCIDENTS

The chart below depicts the number of accidents, fatalities, injuries, and property damage occurring during the year period, 1981 through 1990 on major highways including of some parts is excluded. A total of 34 persons were killed and 1,141 injured.

ERRATA, page 23

Corrected figures for page 23, "1990 KENTUCKY TRAFFIC ACCIDENT FACTS" report are shown below.

JANUARY 1st:

Fatal Accidents: 2
Injury Accidents: 218
Property Damage
Accidents: 783
TOTAL: 1,003
KILLED: 2; INJURED: 336

MEMORIAL DAY:

Fatal Accidents: 4
Injury Accidents: 365
Property Damage
Accidents: 980
TOTAL: 1,349
KILLED: 4; INJURED: 538

JULY 4th:

Fatal Accidents: 5
Injury Accidents: 111
Property Damage
Accidents: 219
TOTAL: 335
KILLED: 5; INJURED: 174

LABOR DAY:

Fatal Accidents: 4
Injury Accidents: 308
Property Damage
Accidents: 829
TOTAL: 1,141
KILLED: 4; INJURED: 511

THANKSGIVING:

Fatal Accidents: 12
Injury Accidents: 398
Property Damage
Accidents: 1,173
TOTAL: 1,583
KILLED: 12; INJURED: 652

CHRISTMAS:

Fatal Accidents: 7
Injury Accidents: 519
Property Damage
Accidents: 1,676
TOTAL: 2,202
KILLED: 7; INJURED: 824

Accidents 783
TOTAL 1,003

Accidents 419
TOTAL 334

TOTAL 1,583



Fatal Accidents 4
Injury Accidents 365
Property Damage 980
Accidents 1,349
KILLED 4
INJURED 538



Fatal Accidents 4
Injury Accidents 308
Property Damage 829
Accidents 1,141
KILLED 4
INJURED 511



Fatal Accidents 7
Injury Accidents 519
Property Damage 1,676
Accidents 2,202
KILLED 7
INJURED 824

COMPARISON OF 1990 HOLIDAY FATALITIES/ACCIDENTS

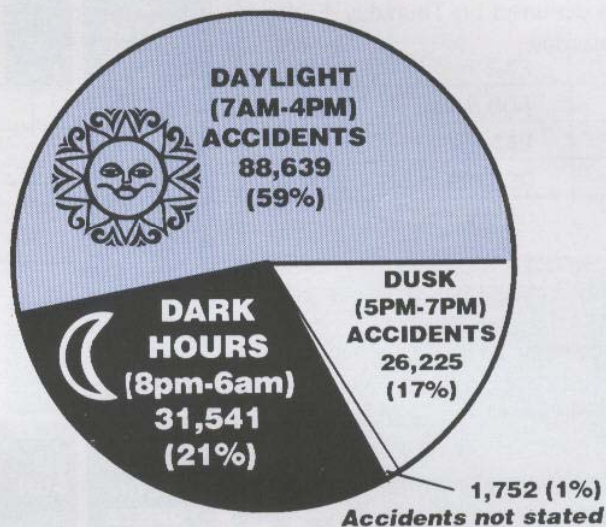
ACCIDENTS BY HOUR OF OCCURRENCE

59% of all accidents reported during 1990 occurred during "daylight" hours (7 am to 4 pm). 21% of all accidents occurred during "dark" hours (8 am to 6 am), and 17% occurred at "dusk" (5 pm to 7 pm).

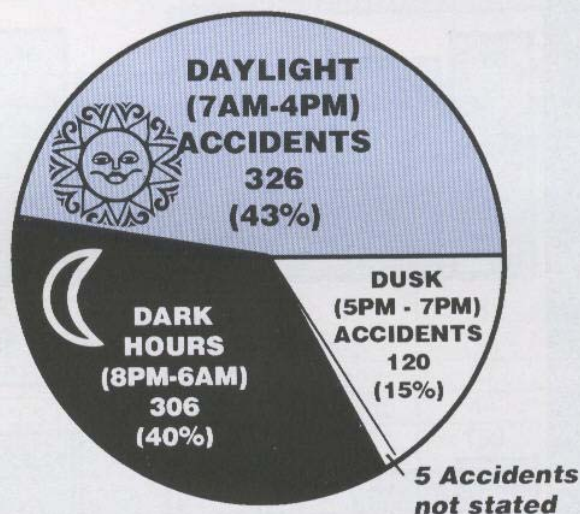
43% of all fatal accidents occurred during "daylight" hours; 40% occurred during "dark" hours; and 15% at "dusk."

NOTE: Time categories do not take into account variances due to season and daylight savings time changes.

ACCIDENTS BY HOUR OF OCCURRENCE



ALL ACCIDENTS



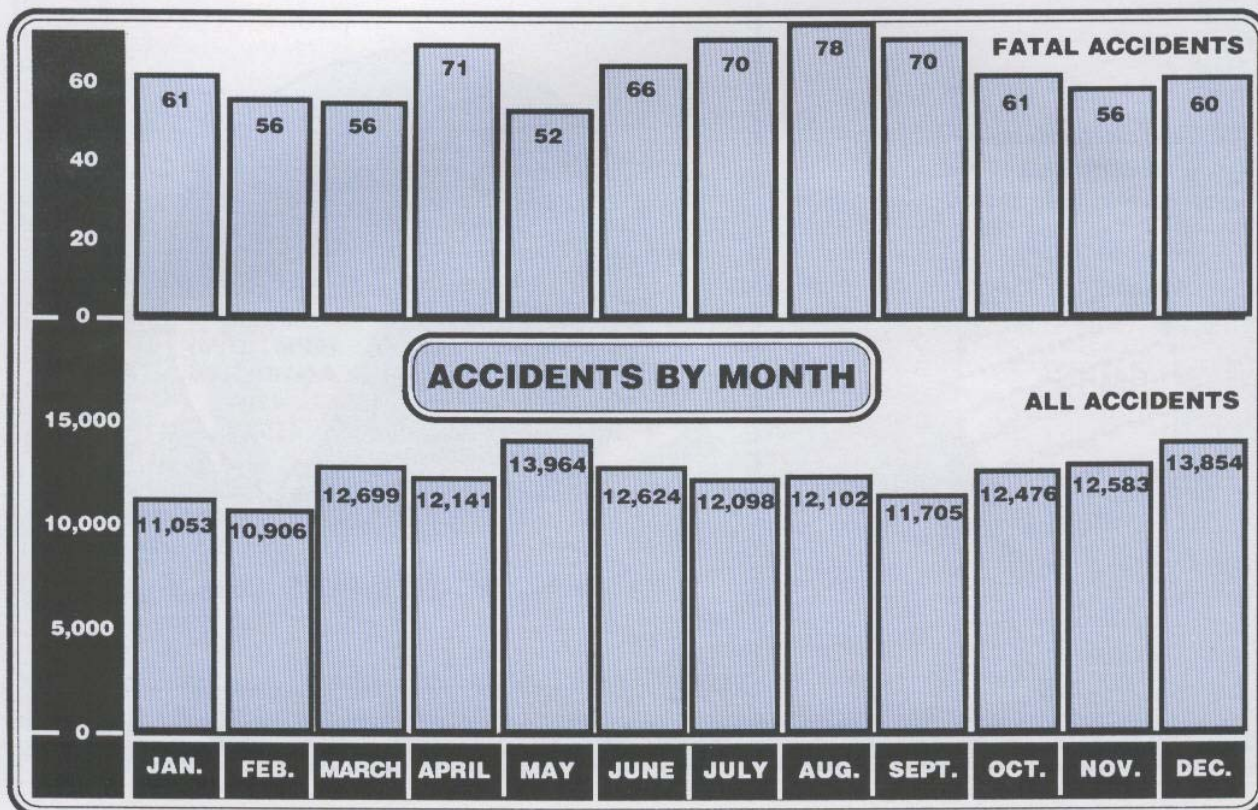
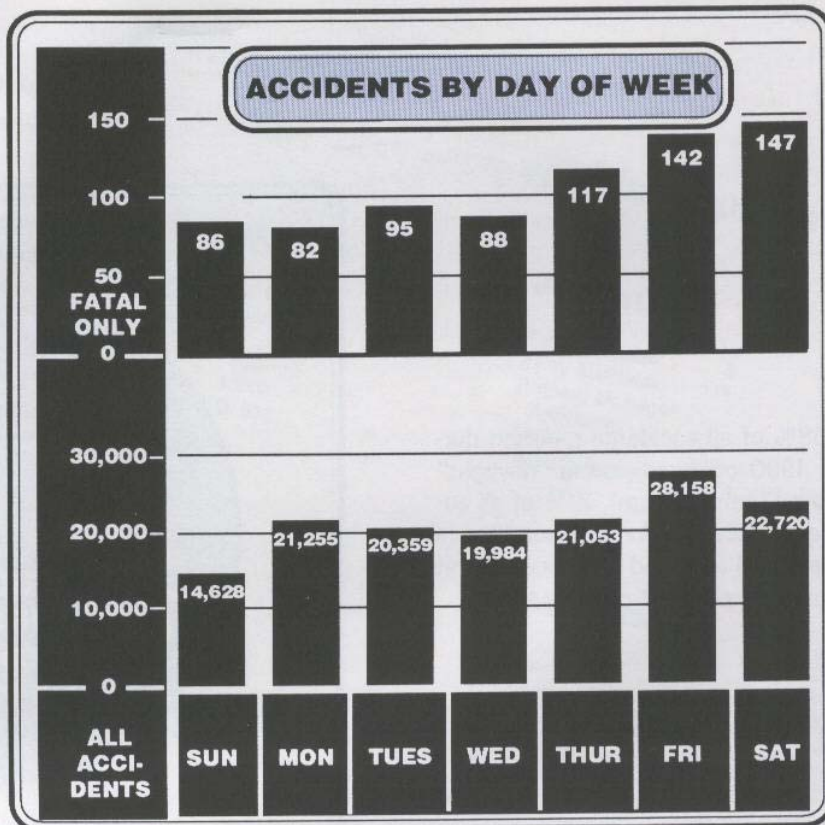
FATAL ACCIDENTS ONLY

1990 ACCIDENTS BY DAY AND MONTH

The right-hand graph shows fatal vs. all accidents by day of occurrence.

49% of all fatal accidents occurred on weekends (Friday, Saturday and Sunday combined). 48% of all accidents occurred on Thursday, Friday and Saturday.

August reported the highest number of fatal accidents; May ranked highest for all accident totals, but recorded the lowest number of fatal accidents. February showed the lowest number of total accidents.



LOCATION OF ACCIDENTS

The chart shows the number of accidents during 1990 by type of roadway, with percentages all accidents

As shown, relatively few accidents were reported on Interstate Highways (5%).

28% of all accidents occurred on Kentucky's "State Numbered" roads, with 47% of all fatal accidents reported during 1990 occurring on this type of roadway.

Although 36% of all accidents occurred on local streets, only 7% of the 1990 fatal accidents occurred on local streets.

NOTE: A breakdown of Interstate and Parkway accidents is provided on page 35.

ROADWAY

TYPE OF ROADWAY	Fatal Accidents	Nonfatal Accidents	Property Accidents	% Total
Interstate	58	1,923	5,191	5%
U.S. Route	219	10,289	25,726	24%
State	352	13,730	27,517	28%
Other Major Arterial	20	359	843	0.8%
County	56	2,107	6,004	6%
Local	52	7,262	46,449	36%
TOTAL	757	35,670	111,730	

INTERSTATE HIGHWAYS
are relatively safe due to
built-in safety features.



ACCIDENTS INVOLVING TRUCKS

Type of Roadway	All Truck Accidents				Trucks with Hazardous Cargo			
	Fatal Accident	Nonfatal Accident	Property Damage	TOTAL	Fatal Accident	Nonfatal Accident	Property Damage	TOTAL
Interstate	17	356	993	1,366	1	11	22	34
U.S. Route	49	723	2,001	2,773	4	17	43	64
State	40	760	1,990	2,790	0	22	30	52
Other Major Arterial	8	44	139	191	1	1	3	5
County	4	57	597	658	0	0	17	17
Local	6	232	3,093	3,331	0	3	44	47
TOTAL	124	2,172	8,813	11,109	6	54	159	219

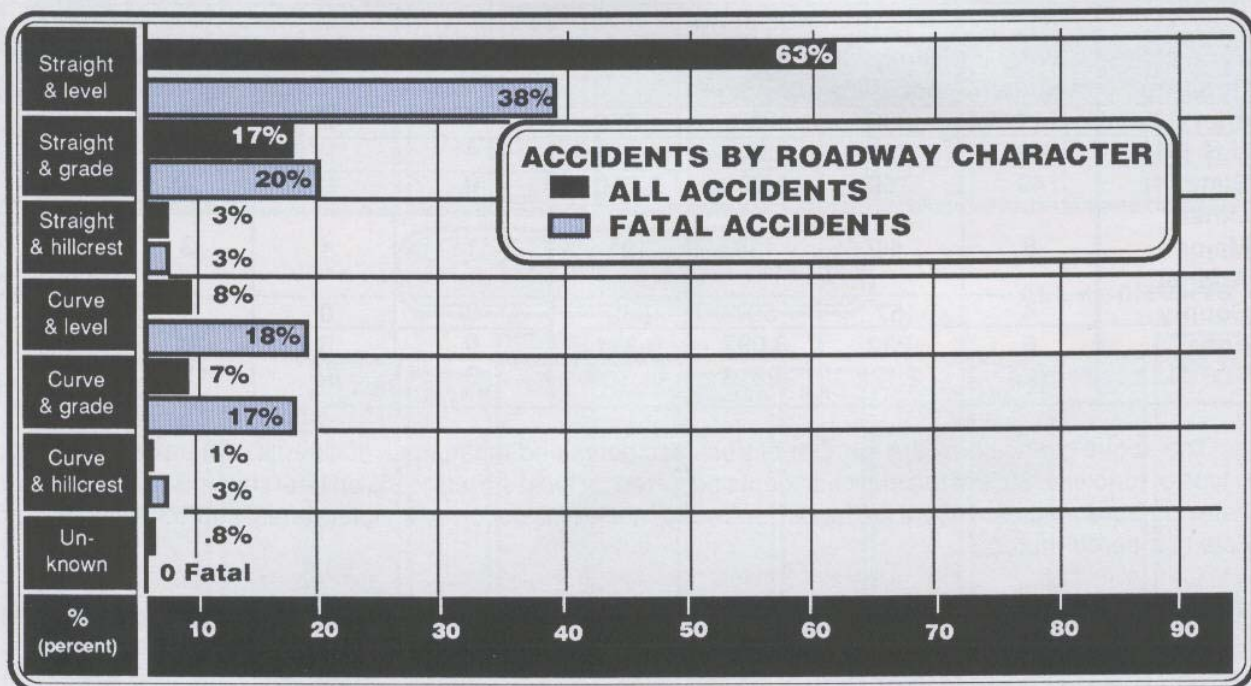
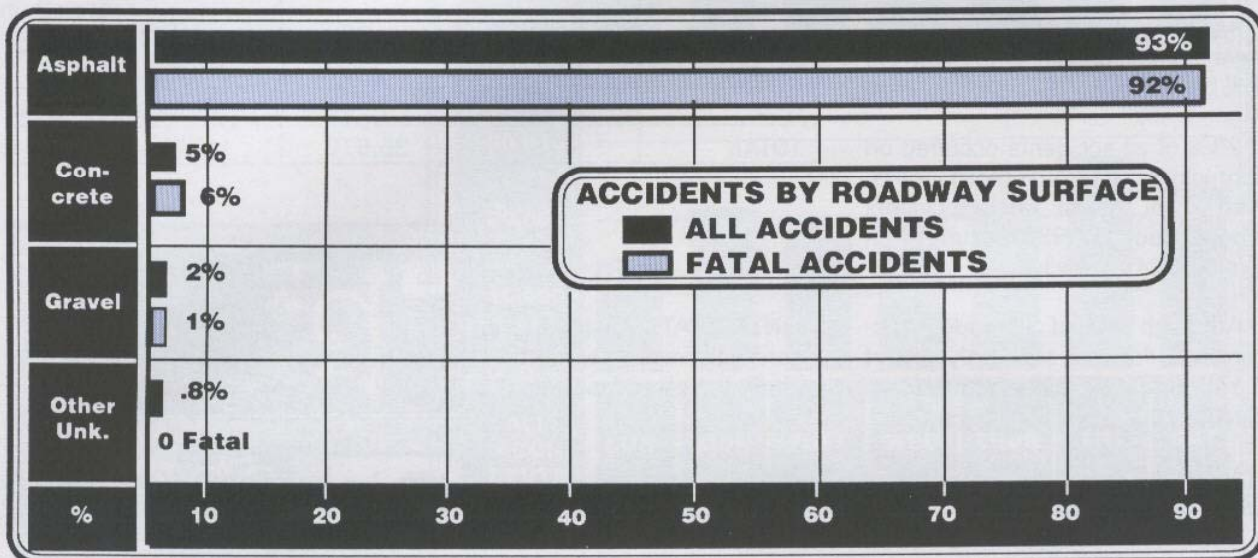
The above charts show the number of truck accidents and those truck accidents with hazardous cargo by type of roadway. 30% of the truck accidents occurred on local streets; 12% on Interstates; 50% on U.S. and State numbered routes. 16% of the hazardous cargo accidents occurred on Interstates, and 53% on U.S. and State numbered routes.

ACCIDENTS BY ROADWAY SURFACE

The charts below depict percentages of all accidents and fatal accidents according to the surface and character of the roadway on which the accident occurred.

While 93% of all accidents occurred on asphalt surfaced roadways, it should be noted that most of Kentucky's high-volume-traffic roadways are asphalt surfaced roads.

As depicted in the bottom chart, 83% of all accidents occurred on straight roads and 16% on curved roads. 36% of the Fatal Accidents during 1990 occurred on curved roads.





ACCIDENTS BY COUNTY

ACCIDENTS BY COUNTY - 1989 vs. 1990

COUNTY	TOTAL		ACCIDENTS						PERSONS				ALCOHOL INVOLVED			
			FATAL		NON-FATAL		PRO. DAMAGE		KILLED		INJURED		ACCIDENTS		DRIVERS	
	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990
ADAIR	506	532	2	4	98	115	406	413	2	4	152	189	22	36	22	36
ALLEN	592	532	5	5	167	138	420	389	6	5	254	212	28	32	28	32
ANDERSON	498	531	2	3	113	168	383	368	2	4	157	250	25	37	25	37
BALLARD	217	212	6	2	64	70	147	140	6	3	97	117	15	15	15	14
BARREN	1,428	1,345	6	9	342	375	1,080	961	7	10	525	566	55	58	55	56
BATH	379	336	4	4	108	103	267	229	6	5	178	141	20	29	20	29
BELL	1,034	925	5	8	272	246	757	671	7	8	438	408	60	71	62	70
BOONE	3,574	3,282	8	11	798	786	2,768	2,485	11	11	1,219	1,248	175	165	178	165
BOURBON	937	798	6	6	222	227	709	565	7	6	319	327	63	58	64	58
BOYD	2,614	2,593	6	6	522	529	2,086	2,058	7	6	761	817	93	124	92	121
BOYLE	1,149	1,157	4	3	242	274	903	880	4	4	412	412	36	38	36	38
BRACKEN	203	211	4	1	52	49	147	161	5	1	82	73	10	25	10	25
BREATHITT	450	441	2	11	175	203	273	227	2	13	275	369	26	46	26	43
BRECKINRIDGE	328	360	3	2	106	108	219	250	3	2	200	200	13	20	13	20
BULLITT	1,266	1,317	7	14	418	404	841	899	7	16	687	654	48	84	48	83
BUTLER	410	362	4	1	117	92	289	269	4	1	179	139	16	9	16	9
CALDWELL	450	488	5	7	106	128	339	353	5	7	175	237	26	33	25	33
CALLOWAY	1,089	833	3	10	317	212	769	611	3	11	487	320	57	32	57	30
CAMPBELL	3,351	3,320	11	7	752	723	2,588	2,590	11	7	1,028	1,060	189	178	189	177
CARLISLE	61	105	1	1	28	39	32	65	1	1	37	52	4	8	4	7
CARROLL	447	496	6	3	120	127	321	366	8	3	185	203	37	38	37	37
CARTER	714	770	3	5	165	213	546	552	4	6	269	332	44	55	45	54
CASEY	218	244	3	3	71	68	144	173	5	3	113	100	17	19	17	19
CHRISTIAN	2,329	2,274	11	13	496	530	1,822	1,731	14	18	753	803	149	159	149	161
CLARK	1,320	1,173	7	7	258	262	1,055	904	7	7	372	397	73	82	75	80
CLAY	524	531	9	3	169	165	346	363	12	3	280	274	58	35	58	35
CLINTON	239	199	2	4	50	48	187	147	2	5	79	89	21	12	20	11
CRITTENDEN	262	252	2	4	75	74	185	174	2	4	122	106	10	7	10	7
CUMBERLAND	99	137	1	2	22	33	76	102	1	3	39	58	9	10	9	10
DAVISS	4,383	4,202	9	16	1,029	984	3,345	3,202	11	19	1,569	1,482	209	224	206	224
EDMONSON	232	263	4	2	61	78	167	183	4	2	102	126	12	18	12	18
ELLIOTT	107	120	0	1	49	61	58	58	0	1	72	96	19	22	19	22
ESTILL	387	396	4	5	107	123	276	268	4	6	169	199	22	33	22	31
FAYETTE	13,149	12,757	25	24	2,380	2,262	10,744	10,471	29	28	3,439	3,213	602	662	609	659
FLEMING	365	345	7	4	108	110	250	231	7	4	183	154	27	16	27	15
FLOYD	1,459	1,470	15	12	505	525	939	933	16	13	815	807	115	121	115	118
FRANKLIN	2,150	1,945	5	7	404	391	1,741	1,547	5	9	606	584	118	105	119	105
FULTON	349	339	1	1	77	78	271	260	1	1	111	127	23	19	23	19
GALLATIN	230	232	2	4	56	72	172	156	3	4	102	125	16	25	16	25
GARRARD	289	247	1	1	63	58	225	188	1	1	99	82	7	13	7	13
GRANT	829	688	3	4	217	201	609	483	5	4	324	342	42	41	41	41
GRAVES	1,297	1,207	6	9	325	296	966	902	8	9	510	431	71	70	71	68
GRAYSON	685	748	6	6	177	223	502	519	7	6	278	328	28	33	28	32
GREEN	272	312	3	3	66	91	203	218	3	3	99	174	7	13	7	11
GREENUP	1,038	1,064	5	5	273	281	760	778	5	6	419	420	56	51	57	51

ACCIDENTS BY COUNTY (cont.) - 1989 vs 1990

COUNTY	TOTAL		ACCIDENTS						PERSONS				ALCOHOL INVOLVED			
			FATAL		NON-FATAL		PRO. DAMAGE		KILLED		INJURED		ACCIDENTS		DRIVERS	
	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990
HANCOCK	196	212	1	1	50	61	145	150	1	1	65	87	11	17	11	17
HARDIN	3,324	3,252	13	24	672	661	2,639	2,567	14	28	1,013	1,014	129	129	130	127
HARLAN	940	1,032	9	5	269	279	662	748	9	5	445	423	67	56	67	57
HARRISON	696	633	4	3	156	134	536	496	5	4	221	181	43	34	43	35
HART	471	417	4	4	130	134	337	279	4	4	212	208	22	22	22	22
HENDERSON	2,303	2,451	7	6	579	616	1,717	1,829	8	7	842	960	124	116	126	115
HENRY	497	487	3	6	107	148	387	333	3	7	171	234	48	42	48	41
HICKMAN	90	85	3	2	40	31	47	52	3	3	57	46	5	7	5	7
HOPKINS	2,210	2,369	8	7	413	530	1,789	1,832	8	7	634	838	81	103	83	100
JACKSON	193	183	3	3	57	49	133	131	3	4	87	78	8	10	8	8
JEFFERSON	32,846	31,559	60	69	6,776	6,697	26,010	24,793	66	74	9,775	9,848	1,355	1,404	1,367	1,406
JESSAMINE	1,156	1,137	4	6	289	253	863	878	4	8	450	372	57	54	58	54
JOHNSON	641	659	7	6	170	199	464	454	9	6	269	320	24	40	24	39
KENTON	6,705	6,418	19	9	1,510	1,351	5,176	5,058	19	9	2,228	1,927	360	330	351	334
KNOTT	318	378	3	4	138	152	177	222	3	4	199	257	14	36	14	36
KNOX	777	772	9	7	210	239	558	526	10	11	365	391	51	63	50	63
LARUE	333	371	4	2	76	105	253	264	4	4	116	163	12	22	12	22
LAUREL	1,467	1,431	11	11	382	404	1,074	1,016	12	12	718	724	58	97	58	98
LAWRENCE	354	287	5	11	128	73	221	203	5	14	198	127	26	28	26	26
LEE	154	149	0	2	29	31	125	116	0	2	43	45	12	13	12	13
LESLIE	189	151	6	4	73	52	110	95	6	4	112	79	21	21	21	20
LETCHER	572	681	4	9	191	243	377	429	5	10	338	380	39	54	39	53
LEWIS	368	335	5	4	117	122	246	209	6	4	203	213	20	27	20	27
LINCOLN	512	536	5	6	146	166	361	364	6	6	241	285	33	35	33	35
LIVINGSTON	222	226	1	2	85	62	136	162	1	2	127	92	21	19	22	19
LOGAN	853	804	4	1	189	185	660	618	5	1	289	306	34	46	34	46
LYON	106	203	0	0	32	61	74	142	0	0	54	96	5	17	5	17
McCRACKEN	3,302	3,272	9	19	849	823	2,444	2,430	10	19	1,244	1,282	209	191	213	190
McCREARY	162	269	2	5	50	90	110	174	4	6	84	150	23	25	24	23
McLEAN	209	248	2	0	80	91	127	157	2	0	112	134	14	14	12	14
MADISON	3,089	2,706	23	10	618	543	2,448	2,153	26	10	1,012	866	171	171	173	170
MAGOFFIN	269	285	5	6	115	130	149	149	6	9	192	226	24	33	24	33
MARION	538	578	3	5	120	147	415	426	4	5	194	240	42	44	42	43
MARSHALL	833	862	10	8	238	276	585	578	12	13	380	491	36	46	36	44
MARTIN	352	368	5	3	110	137	237	228	5	3	179	222	10	22	10	22
MASON	1,044	949	2	3	214	199	828	747	2	5	329	327	51	57	51	57
MEADE	575	591	4	4	177	180	394	407	5	6	277	295	53	53	52	52
MENIFEE	88	109	0	1	36	50	52	58	0	1	50	83	2	9	2	9
MERCER	762	742	3	8	217	193	542	541	3	9	334	282	47	43	47	42
METCALFE	253	225	5	3	83	72	165	150	6	4	137	114	6	10	6	10
MONROE	205	219	2	0	52	62	151	157	2	0	92	99	7	9	7	9
MONTGOMERY	883	843	5	8	208	208	670	627	6	10	334	339	45	55	45	53
MORGAN	303	336	4	4	105	130	194	202	4	5	175	205	33	31	33	31
MUHLENBERG	1,155	1,219	6	10	303	328	846	881	6	12	466	475	66	76	66	74
NELSON	1,165	1,135	9	15	312	264	844	856	10	17	485	430	59	64	59	59

ACCIDENTS BY COUNTY (cont.) - 1989 vs. 1990

COUNTY	TOTAL		ACCIDENTS						PERSONS				ALCOHOL INVOLVED			
			FATAL		NON-FATAL		PRO. DAMAGE		KILLED		INJURED		ACCIDENTS		DRIVERS	
	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990
NICHOLAS	111	131	1	0	29	41	81	90	1	0	46	64	13	17	12	17
OHIO	619	645	2	12	202	204	415	429	2	13	345	340	36	35	36	36
OLDHAM	1,034	927	8	3	271	218	755	706	8	3	396	325	63	50	63	49
OWEN	262	249	1	3	78	78	183	168	1	3	136	128	15	19	15	20
OWSLEY	108	125	1	0	42	48	65	77	1	0	61	75	16	15	16	15
PENDLETON	353	360	1	4	95	111	257	245	1	4	132	206	19	23	19	20
PERRY	1,213	1,194	14	10	334	334	865	850	16	10	527	520	67	74	67	71
PIKE	2,579	2,651	19	23	841	817	1,719	1,811	20	25	1,355	1,320	154	170	154	168
POWELL	395	313	5	3	124	95	266	215	5	3	202	166	36	14	36	14
PULASKI	1,945	1,823	11	8	446	449	1,488	1,366	13	8	732	711	108	76	108	76
ROBERTSON	21	14	1	0	8	6	12	8	1	0	17	9	2	2	2	2
ROCKCASTLE	488	508	4	6	158	155	326	347	4	8	253	271	32	32	32	31
ROWAN	978	1,016	4	7	255	253	719	756	4	7	397	393	48	53	48	53
RUSSELL	432	499	4	3	110	127	318	369	5	3	201	199	14	40	14	39
SCOTT	1,204	1,146	6	4	299	268	899	874	9	5	434	428	42	41	42	42
SHELBY	1,150	1,194	10	8	261	267	879	919	10	9	417	419	70	74	69	70
SIMPSON	701	599	5	5	159	128	537	466	5	5	287	215	31	20	31	20
SPENCER	146	119	4	0	49	45	93	74	4	0	85	78	13	17	13	17
TAYLOR	765	735	2	5	132	132	631	598	2	6	189	191	32	38	32	37
TODD	225	284	7	4	56	89	162	191	7	4	107	126	15	22	15	21
TRIGG	380	358	3	2	104	107	273	249	4	2	149	164	18	15	18	15
TRIMBLE	192	160	3	2	66	55	123	103	3	3	95	78	8	8	8	8
UNION	529	525	4	3	162	154	363	368	5	3	228	264	35	36	35	36
WARREN	4,603	4,669	12	18	1,115	1,241	3,476	3,410	13	20	1,719	1,902	225	269	226	274
WASHINGTON	278	308	4	4	55	71	219	233	6	4	85	114	13	20	13	20
WAYNE	441	548	4	5	95	119	342	424	4	6	169	181	25	31	25	31
WEBSTER	457	511	2	3	115	141	340	367	5	3	158	197	21	27	21	26
WHITLEY	1,108	1,145	11	11	298	342	799	792	13	12	478	541	61	73	61	73
WOLFE	244	215	5	2	96	76	143	137	5	2	154	121	22	16	22	17
WOODFORD	893	921	3	10	209	195	681	716	3	11	270	289	67	56	66	56
TOTALS (State)	151,443	148,157	696	757	35,507	35,670	115,240	111,730	782	850	54,115	54,832	7,670	8,159	10,553	8,095

1989 vs. 1990

ACCIDENTS INVOLVING DRINKING DRIVERS

8,159 accidents in which a driver was known to have been drinking were reported during 1990. A breakdown of accidents (fatal, non-fatal injury, and property damage), by county, for 1989 vs. 1990, is shown below and on the following pages. The number of persons killed and injured in these accidents is also shown. Please note that these figures are tabulated based on the investigating officer's determination that a driver was known to have been drinking, and are also based on blood alcohol test results.

COUNTY	ACCIDENTS								PERSONS			
	TOTAL		FATAL		NON-FATAL INJURY		PROPERTY DAMAGE		KILLED		INJURED	
	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990
Adair	22	36	1	1	9	13	12	22	1	1	16	17
Allen	28	32	1	1	17	18	10	13	1	1	24	24
Anderson	25	37	1	0	16	23	9	14	1	0	23	31
Ballard	15	15	3	1	9	10	6	4	3	1	16	21
Barren	55	58	5	4	24	25	28	29	6	5	34	48
Bath	20	29	1	2	11	18	8	9	1	2	17	23
Bell	60	71	2	5	30	34	28	32	3	5	53	54
Boone	175	165	3	2	78	75	94	88	6	2	111	133
Bourbon	63	58	3	4	28	23	33	31	3	4	42	35
Boyd	93	124	3	1	44	57	47	66	4	1	69	80
Boyle	36	38	2	1	17	22	18	15	2	1	39	29
Bracken	10	25	2	0	5	11	4	14	2	0	9	15
Breathitt	26	46	1	5	18	29	7	12	1	5	24	55
Breckinridge	13	20	1	1	8	11	4	8	1	1	14	17
Bullitt	48	84	3	6	19	44	27	34	3	8	31	73
Butler	16	9	2	0	4	6	10	3	2	0	6	9
Caldwell	26	33	1	2	9	16	17	15	1	2	12	33
Calloway	57	32	3	3	30	18	26	11	3	3	55	27
Campbell	189	178	5	4	80	91	106	83	5	4	123	139
Carlisle	4	8	0	1	4	6	0	1	0	1	4	7
Carroll	37	38	5	2	10	16	23	20	7	2	17	28
Carter	44	55	3	4	23	33	21	18	4	5	46	53
Casey	17	19	0	2	14	13	3	4	0	2	18	17
Christian	149	159	5	4	66	79	81	76	6	6	101	131
Clark	73	82	2	3	28	35	44	44	2	3	39	47
Clay	58	35	5	2	36	21	19	12	8	2	65	29
Clinton	21	12	1	4	5	4	15	4	1	5	11	14
Crittenden	10	7	0	2	6	2	4	3	0	2	8	6
Cumberland	9	10	0	1	4	4	5	5	0	2	7	7
Daviess	209	224	2	6	105	104	102	114	2	6	159	170
Edmonson	12	18	1	0	7	7	4	11	1	0	11	10
Elliott	19	22	0	1	12	16	7	5	0	1	18	23
Estill	22	33	1	3	14	17	7	13	1	3	21	25
Fayette	602	662	8	13	219	237	377	412	10	16	340	354
Fleming	27	16	2	1	15	6	10	9	2	1	29	7
Floyd	115	121	4	6	65	83	47	32	5	7	103	137
Franklin	118	105	1	2	58	49	59	54	1	4	81	70
Fulton	23	19	0	0	9	8	14	11	0	0	13	14
Gallatin	16	25	1	1	8	12	7	12	1	1	15	18
Garrard	7	13	0	0	2	8	5	5	0	0	3	9

1989 vs. 1990 ACCIDENTS INVOLVING DRINKING DRIVERS

COUNTY	ACCIDENTS								PERSONS			
	TOTAL		FATAL		NON-FATAL INJURY		PROPERTY DAMAGE		KILLED		INJURED	
	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990
Grant	42	41	2	1	12	24	28	16	4	1	22	36
Graves	71	70	2	7	47	35	22	28	4	7	74	53
Grayson	28	33	0	1	20	24	8	8	0	1	27	31
Green	7	13	2	3	3	9	3	1	2	3	10	21
Greenup	56	51	1	1	28	29	28	21	1	2	60	36
Hancock	11	17	1	0	6	14	5	3	1	0	7	22
Hardin	129	129	7	11	57	53	67	65	8	11	99	100
Harlan	67	56	0	0	33	25	34	31	0	0	54	40
Harrison	43	34	3	0	19	19	22	15	4	0	26	24
Hart	22	22	2	1	13	12	8	9	2	1	25	18
Henderson	124	116	1	5	55	49	69	62	1	6	72	90
Henry	48	42	0	2	21	23	27	17	0	2	34	36
Hickman	5	7	2	1	2	5	3	1	2	1	4	7
Hopkins	81	103	2	2	43	42	36	59	2	2	72	58
Jackson	8	10	0	2	7	3	1	5	0	3	11	3
Jefferson	1,355	1,404	8	26	626	640	710	738	30	27	968	1,008
Jessamine	57	54	2	3	33	22	23	29	2	5	61	40
Johnson	24	40	2	2	13	18	10	20	2	2	17	23
Kenton	360	330	8	0	131	141	224	189	8	0	214	211
Knott	14	36	0	1	7	20	7	15	0	1	9	34
Knox	51	63	3	1	22	32	28	30	4	1	38	46
Larue	12	22	1	0	4	15	7	7	1	0	6	21
Laurel	58	97	4	6	32	48	25	43	4	6	60	93
Lawrence	26	28	3	6	14	14	10	8	3	7	23	24
Lee	12	13	0	1	6	4	6	8	0	1	10	7
Leslie	21	21	3	2	12	13	7	6	3	2	18	23
Letcher	39	54	2	3	2	27	24	24	16	3	44	47
Lewis	20	27	2	2	8	15	11	10	2	2	11	38
Lincoln	33	35	2	0	17	17	15	18	2	0	31	29
Livingston	21	19	0	1	13	12	8	6	0	1	19	19
Logan	34	46	3	0	17	20	15	26	4	0	24	38
Lyon	5	17	0	0	3	8	2	9	0	0	4	13
McCracken	209	191	3	6	103	79	104	106	4	6	140	115
McCreary	23	25	1	3	12	15	10	7	3	4	23	18
McLean	12	14	1	0	9	9	3	5	1	0	15	10
Madison	171	171	9	7	60	64	104	100	10	7	102	104
Magoffin	24	33	3	1	15	24	7	8	4	1	30	37
Marion	42	44	3	4	21	16	21	24	4	4	36	27
Marshall	36	46	1	4	16	25	19	17	2	8	22	35
Martin	10	22	1	1	4	11	5	10	1	1	15	19

1989 vs. 1990 ACCIDENTS INVOLVING DRINKING DRIVERS (continued)

COUNTY	ACCIDENTS								PERSONS			
	TOTAL		FATAL		NON-FATAL INJURY		PROPERTY DAMAGE		KILLED		INJURED	
	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990
Mason	51	57	1	2	23	27	27	28	1	4	37	47
Meade	53	53	2	0	26	29	26	24	2	0	40	41
Menifee	2	9	0	1	0	6	2	2	0	1	0	9
Mercer	47	43	1	3	28	21	18	19	1	3	44	32
Metcalfe	6	10	1	1	1	5	5	4	1	1	1	14
Monroe	7	9	1	0	5	4	2	5	1	0	7	11
Montgomery	45	55	1	3	18	23	27	29	2	5	25	38
Morgan	33	31	0	3	19	14	14	14	0	3	31	23
Muhlenberg	66	76	2	3	38	41	27	32	2	3	62	56
Nelson	59	64	5	7	33	35	23	22	5	7	58	55
Nicholas	13	17	1	0	6	7	6	10	1	0	8	12
Ohio	36	35	2	2	26	23	8	10	2	2	53	41
Oldham	63	50	5	1	30	30	28	19	5	1	47	41
Owen	15	19	0	0	10	13	5	6	0	0	19	19
Owsley	16	15	0	0	10	8	7	7	0	0	12	13
Pendleton	19	23	1	3	6	11	12	9	1	3	8	14
Perry	67	74	2	4	42	34	24	36	2	4	71	55
Pike	154	170	7	8	85	81	65	81	8	9	135	142
Powell	36	14	3	1	16	7	17	6	3	1	30	7
Pulaski	108	76	3	2	51	44	55	30	5	2	82	74
Robertson	2	2	1	0	1	2	1	0	1	0	4	2
Rockcastle	32	32	1	3	24	18	7	11	1	3	43	31
Rowan	48	53	3	3	28	24	17	26	3	3	48	51
Russell	14	40	2	3	11	15	3	22	2	3	20	27
Scott	42	41	1	2	19	16	23	23	1	3	32	29
Shelby	70	74	6	5	35	38	29	31	6	6	58	54
Simpson	31	20	5	2	14	12	14	6	5	2	37	18
Spencer	13	17	2	0	10	12	2	5	2	0	19	20
Taylor	32	38	0	2	13	12	19	24	0	2	14	18
Todd	15	22	3	3	6	12	7	7	3	3	10	14
Trigg	18	15	2	0	11	9	6	6	2	0	19	12
Trimble	8	8	1	0	5	4	3	4	1	0	8	6
Union	35	36	3	1	26	16	9	19	4	1	33	30
Warren	225	269	3	7	115	131	108	131	4	7	175	231
Washington	13	20	0	0	3	12	10	8	0	0	5	23
Wayne	25	31	3	3	11	15	12	13	3	3	23	24
Webster	21	27	1	1	13	15	8	11	4	1	20	21
Whitley	61	73	6	3	29	44	27	26	7	3	55	66
Wolfe	22	16	0	0	11	9	11	7	0	0	13	13
Woodford	67	56	0	3	32	33	35	20	0	3	44	54
TOTALS	7,670	8,159	274	303	3,643	3,891	3,854	3,965	319	336	5,814	6,181

DRIVERS UNDER INFLUENCE OF DRUGS INVOLVED IN TRAFFIC ACCIDENTS

The following chart shows the number of drivers suspected of being under the influence of drugs involved in accidents, together with the number of persons killed and injured in those accidents. A total of 370 drivers were suspected of being under the influence of drugs based on preliminary investigation of the officer investigating the accident. 5 drivers were involved in fatal accidents (5 persons killed) and 185 drivers were involved in injury accidents (292 persons injured).

COUNTY	ALL ACCIDENTS	FATAL ACCIDENTS	INJURY ACCIDENTS	PERSONS KILLED	PERSONS INJURED
ADAIR	3	—	2	—	3
ALLEN	3	—	1	—	1
ANDERSON	1	—	—	—	—
BALLARD	—	—	—	—	—
BARREN	1	—	—	—	—
BATH	—	—	—	—	—
BELL	5	—	4	—	5
BOONE	5	—	2	—	3
BOURBON	2	—	1	—	1
BOYD	5	—	3	—	6
BOYLE	2	—	1	—	1
BRACKEN	—	—	—	—	—
BREATHITT	2	—	2	—	3
BRECKINRIDGE	—	—	—	—	—
BULLITT	2	—	—	—	—
BUTLER	1	—	—	—	—
CALDWELL	—	—	—	—	—
CALLOWAY	2	—	1	—	1
CAMPBELL	6	—	3	—	4
CARLISLE	1	—	1	—	2
CARROLL	1	—	—	—	—
CARTER	—	—	—	—	—
CASEY	1	—	1	—	1
CHRISTIAN	5	—	3	—	4
CLARK	2	—	1	—	2
CLAY	12	—	9	—	14
CLINTON	—	—	—	—	—
CRITTENDEN	2	—	—	—	—
CUMBERLAND	—	—	—	—	—
DAVISS	18	—	10	—	12
EDMONSON	2	—	1	—	2
ELLIOTT	1	—	1	—	1
ESTILL	1	—	1	—	1
FAYETTE	25	—	9	—	14
FLEMING	1	—	1	—	2
FLOYD	7	—	3	—	10
FRANKLIN	4	—	3	—	5
FULTON	3	—	1	—	3
GALLATIN	—	—	—	—	—
GARRARD	—	—	—	—	—
GRANT	1	—	1	—	1
GRAVES	5	—	3	—	5
GRAYSON	2	—	—	—	—
GREEN	—	—	—	—	—
GREENUP	4	—	2	—	2

COUNTY	ALL ACCIDENTS	FATAL ACCIDENTS	INJURY ACCIDENTS	PERSONS KILLED	PERSONS INJURED
HANCOCK	—	—	—	—	—
HARDIN	1	—	—	—	—
HARLAN	3	—	3	—	4
HARRISON	3	—	2	—	2
HART	1	—	—	—	—
HENDERSON	3	—	2	—	4
HENRY	4	—	—	—	—
HICKMAN	—	—	—	—	—
HOPKINS	3	—	1	—	3
JACKSON	1	—	—	—	—
JEFFERSON	38	—	21	—	30
JESSAMINE	1	—	—	—	—
JOHNSON	2	—	1	—	1
KENTON	22	—	12	—	13
KNOTT	1	—	1	—	1
KNOX	8	—	5	—	8
LARUE	—	—	—	—	—
LAUREL	13	1	9	1	13
LAWRENCE	—	—	—	—	—
LEE	—	—	—	—	—
LESLIE	1	—	1	—	1
LETCHER	3	—	2	—	2
LEWIS	—	—	—	—	—
LINCOLN	1	—	1	—	4
LIVINGSTON	1	—	—	—	—
LOGAN	4	—	—	—	—
LYON	1	—	—	—	—
McCRACKEN	19	—	7	—	10
McCREARY	—	—	—	—	—
McLEAN	—	—	—	—	—
MADISON	3	—	1	—	4
MAGOFFIN	3	—	2	—	2
MARION	1	—	1	—	2
MARSHALL	1	—	1	—	2
MARTIN	3	—	—	—	—
MASON	—	—	—	—	—
MEADE	—	—	—	—	—
MENIFEE	—	—	—	—	—
MERCER	5	1	1	1	2
METCALFE	1	—	—	—	—
MONROE	—	—	—	—	—
MONTGOMERY	1	—	—	—	—
MORGAN	3	1	2	1	4
MUHLENBERG	2	—	2	—	4
NELSON	1	—	—	—	—

COUNTY	ALL ACCIDENTS	FATAL ACCIDENTS	INJURY ACCIDENTS	PERSONS KILLED	PERSONS INJURED
NICHOLAS	—	—	—	—	—
OHIO	1	—	1	—	3
OLDHAM	3	—	2	—	2
OWEN	4	—	4	—	4
OWSLEY	—	—	—	—	—
PENDLETON	—	—	—	—	—
PERRY	2	—	1	—	1
PIKE	11	1	7	1	16
POWELL	2	—	2	—	4
PULASKI	7	—	2	—	4
ROBERTSON	—	—	—	—	—
ROCKCASTLE	2	—	1	—	1
ROWAN	4	1	2	1	6
RUSSELL	4	—	1	—	1
SCOTT	2	—	—	—	—
SHELBY	2	—	1	—	1
SIMPSON	—	—	—	—	—
SPENCER	1	—	1	—	1
TAYLOR	3	—	1	—	1
TODD	—	—	—	—	—
TRIGG	3	—	1	—	1
TRIMBLE	1	—	—	—	—
UNION	1	—	—	—	—
WARREN	13	—	6	—	6
WASHINGTON	—	—	—	—	—
WAYNE	—	—	—	—	—
WEBSTER	3	—	1	—	1
WHITLEY	3	—	1	—	2
WOLFE	1	—	1	—	2
WOODFORD	1	—	—	—	—
TOTAL	370	5	185	5	282

DRUG INVOLVED ACCIDENTS BY AREA DEVELOPMENT DISTRICT

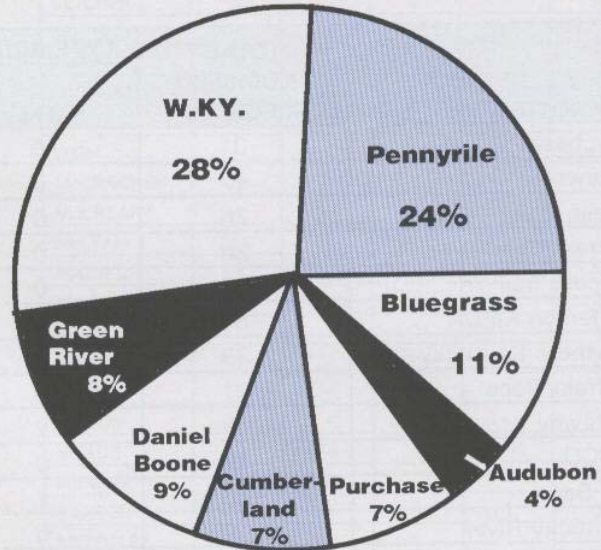
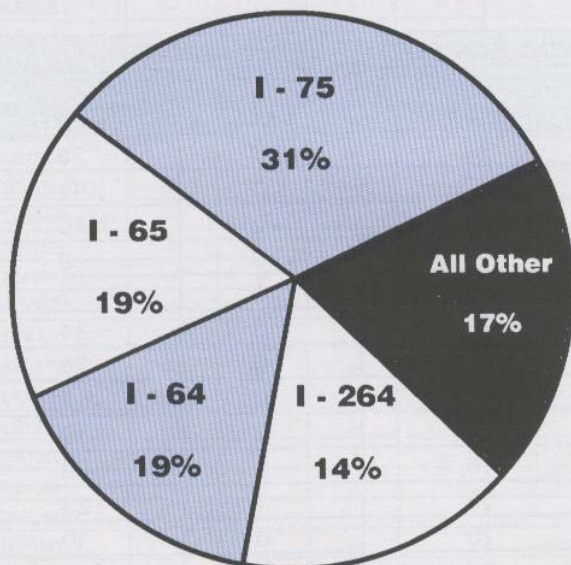
AREA DEVELOPMENT DISTRICT	TOTAL NUMBER REPORTED	TYPE ACCIDENT REPORTED		PERSONS	
		FATAL	INJURY	KILLED	INJURED
Purchase	31	0	14	0	23
Pennyrile	17	0	7	0	12
Green River	26	0	14	0	20
Barren River	26	0	8	0	9
Lincoln Trail	5	0	1	0	2
Jefferson KIPDA	51	0	25	0	34
Northern Kentucky	39	0	22	0	25
Buffalo Trace	1	0	1	0	2
Gateway	8	2	4	2	10
FIVCO	10	0	6	0	9
Big Sandy	26	1	13	1	29
Kentucky River	10	0	8	0	10
Cumberland Valley	47	1	32	1	47
Lake Cumberland	18	0	7	0	10
Bluegrass	55	1	23	1	40
State Totals	370	5	185	5	282

INTERSTATES AND PARKWAYS 1990

The chart below depicts the incidence of accidents on Kentucky's Interstates and Parkways. Interstate Accidents represent 5% of all 1990 accidents. Parkway Accidents represent .7% of 1989 Accidents.

Highway	Total	Fatal	Non-Fatal	Property Damage	Killed	Injured
I-275	271	0	78	223	0	112
I-471	140	0	41	99	0	64
I-264	1,002	5	224	858	7	307
I-75	2,248	17	666	1,565	19	1,080
I-71	471	4	119	323	6	194
I-65	1,385	17	353	1,015	21	562
I-64	1,397	14	371	1,012	14	559
I-24	285	1	72	212	1	209
Total	7,199	58	1,924	5,307	68	3,087

Parkway	Total	Fatal	Non-Fatal	Property Damage	Killed	Injured
Daniel Boone	97	2	40	55	2	81
Cumberland	77	0	21	56	0	33
Audubon	49	0	11	38	0	14
Pennyrile	275	3	82	190	6	129
Purchase	81	1	20	60	1	30
Green River	99	1	24	74	1	31
Western Kentucky	318	8	86	224	8	126
Bluegrass	129	3	31	95	3	47
Total	1,125	18	315	792	21	491





FATAL ACCIDENT REPORTING SYSTEM

The *Fatal Accident Reporting System (FARS)* is a computerized file containing data on all fatal accidents occurring each year in the fifty states, the District of Columbia, and Puerto Rico. The system is operated by the National Highway Traffic Safety Administration for the purpose of identifying safety problems, suggesting solutions, and helping to provide an objective basis to evaluate the effectiveness of motor vehicle safety standards and highway safety countermeasures.

FARS has a contract with a government agency in each state for the purpose of fatal accident data acquisition. In Kentucky, this contract is with the Kentucky State Police Records Section.

For reasons of timeliness in reporting and continuity among the states, *FARS* counts only those fatalities that occur within 30 days of the accident date. *FARS* differs from Kentucky data in that it collects data not only from the accident reports submitted from across the state, but contacts many other sources to obtain additional data pertinent to the accident, vehicles, drivers, etc. Examples of additional sources contacted by *FARS* are vehicle registration files, Driver Licensing, Vital Statistics, EMS reports, labs, coroners, and medical examiners.

A 15 minute audio/slide presentation (also available on VHS) more fully explaining the Fatal Accident Reporting System is available by contacting the FARS Unit of the Kentucky State Police Records Section.

DRIVERS INVOLVED IN FATAL ACCIDENTS—AGE AND ALCOHOL INVOLVEMENT

The chart depicts the ages of all drivers in fatal accidents vs. alcohol involved drivers in Fatal Accidents and the percentages of involvement for various ages and age-groups. The alcohol involved teenage driver (ages 13 through 19) represents almost 15% of the total number of alcohol involved drivers and 31% of all teenage drivers in fatal accidents.

NOTE: Data is derived from the Fatal Accident Reporting System (FARS). The number of alcohol related drivers differs from those reported through the Kentucky Accident Reporting System because FARS follows up on alcohol test results.

NOTE: In accord with Federal Guidelines, the FARS System does not include fatalities resulting from deaths resulting from natural causes, suicides and accidents which occurred on private property.

AGE	Number of Drivers	Alcohol Involved	% Alcohol Involved
Under 16	8	2	25
16	35	8	22
17	32	6	18
18	39	16	41
19	40	16	40
20	42	16	38
21	28	15	53
22-24	92	29	31
25-34	279	104	37
35-44	209	59	28
45-54	117	23	19
55-64	74	13	17
65-74	58	4	6
Over 74	50	1	2
UNKNOWN	6	0	0
TOTALS	1,109	312	28

ALCOHOL INVOLVEMENT BY AGE AND TEST RESULTS FOR

DRIVERS INVOLVED IN 1990 FATAL ACCIDENTS

DURING 1990, 338 PERSONS WERE KILLED IN FATAL ACCIDENTS INVOLVING A DRINKING DRIVER. THIS REPRESENTS 39% OF ALL PERSONS KILLED IN TRAFFIC ACCIDENTS IN KENTUCKY DURING 1990.

The chart below shows drinking drivers by age and alcohol test result. 65% of the drinking drivers were found to have been legally intoxicated (0.10% or above) at the time of the accident.

AGE	NUMBER OF DRINKING DRIVERS*	TEST RESULTS					TEST REFUSED	NOT TESTED	RESULTS OF TEST UNKNOWN
		.00	.01-.05	.06-.09	.10-.19	.20 +			
Under 16	2	0	0	0	1	1	0	0	0
16	8	3	0	2	1	0	0	1	1
17	6	1	1	1	3	0	0	0	0
18	16	1	2	2	8	1	0	1	1
19	16	2	4	4	4	1	0	1	0
20	16	1	1	4	5	3	0	0	2
21	15	0	0	3	4	6	0	0	2
22-24	29	3	1	3	12	6	0	2	2
25-34	104	4	11	3	44	30	0	8	4
35-44	59	2	3	4	22	23	0	2	3
45-54	23	1	4	1	8	8	0	0	1
55-64	13	1	2	0	3	7	0	0	0
65-74	4	0	1	1	0	2	0	0	0
75 +	1	0	0	0	0	1	0	0	0
TOTAL	312	19	30	28	115	89	0	15	16

*Drinking Driver refers to a Driver suspected by the police to be drinking, and/or a driver who tested positive for alcohol in a subsequent test result.

FATALLY INJURED PEDESTRIANS

AGE	TOTAL	NUMBER DRINKING	AVERAGE TEST RESULTS OF THOSE DRINKING
0-5	3	0	0.0%
6-10	3	0	0.0%
11-15	2	0	0.0%
16-20	7	1	0.14%
21-25	6	4	0.66%
26-30	4	3	0.75%
31-40	3	1	0.33%
41-50	9	3	0.33%
51-60	7	3	0.42%
61-70	6	0	0.0%
71-80	13	0	0.0%
81 +	9	0	0.0%
TOTAL	72	15	20%

Another traffic hazard is the drinking pedestrian. The right-hand chart shows the number of fatally injured pedestrians by age and alcohol involvement.

DURING 1990, 23% OF THE FATALLY INJURED PEDESTRIANS OVER THE AGE OF 15 WERE DRINKING. THEIR AVERAGE ALCOHOL TEST WAS 0.23%.

ACTIVE RESTRAINTS AND EJECTION IN FATAL ACCIDENTS

The chart belows plots overall results in fatal accidents when active restraints (safety belts, harnesses, child restraints) are used. A comparison of "used" versus "not used" for 1990 FARS data strongly confirms both the life-saving advantage as well as the reduction of serious injury when restraints are in place. 84 PERCENT OF THE VEHICLE OCCUPANTS KILLED DURING 1990 WERE NOT RESTRAINED. 81 PERCENT OF THE VEHICLE OCCUPANTS SUFFERING INCAPACITATING INJURY WERE NOT RESTRAINED. 73 PERCENT OF THE OCCUPANTS SUFFERING NON-INCAPACITATING INJURY WERE NOT RESTRAINED.

Result	Restraint Used	Restraint Not Used	Unknown If Used	TOTAL
Fatal Injury	104	605	12	721
Incapacitating Injury	69	316	5	390
Non-Incapacitating Injury	66	188	2	256
Possible Injury	30	89	1	120
No Injury	119	290	13	422
Unknown If Injured	0	0	1	1
Injured, Severity Unknown	0	0	0	0
TOTAL	388	1,488	34	1,910

Of the 1,910 vehicle occupants involved in fatal accidents in 1990, only 388 were using safety restraints - an overall usage rate of 20% in fatal accidents.

EJECTION

The right-hand chart shows overall injuries in fatal accidents according to whether the vehicle occupant was ejected from the vehicle, partially ejected, or not ejected. 29% of the persons killed were ejected. 70 PERCENT OF THOSE VEHICLE OCCUPANTS WHO WERE EJECTED WERE KILLED. This data also reaffirms the life-saving advantage of using an active restraint, since the possibility of being ejected upon impact is significantly reduced.

Result	Total Ejection	Partial Ejection	No Ejection	Unknown	TOTAL
Fatal Injury	165	45	507	4	721
Incapacitating Injury	47	9	333	1	390
Non-Incapacitating Inj.	27	1	228	0	256
Possible Injury	5	0	115	0	120
No Injury	0	0	422	0	422
Unknown If Injured	0	0	0	1	1
Injured, Severity Unk.	0	0	0	0	0
TOTAL	244	55	1,605	6	1,910

CHILD RESTRAINTS

Kentucky's "child restraint law" (KRS 189.125) became effective July 15, 1982, and requires that any parent or legal guardian of a child "forty inches in height or less, when transporting the child in a motor vehicle owned by that parent or guardian operated on the roadways, streets and highways of this state, shall have such child properly secured in a child restraint system of a type meeting federal motor vehicle safety standards."

In order to qualify, the child restraint system must be certified as having been federally approved. *(Federal approval of a child restraint system is based on its having withstood dynamic crash tests - 30 mph crash into a fixed barrier.)*



The data on child restraint depicted in the chart below reflects "age" (four years and under) rather than the height of the child. Other states with child restraint laws have adopted the "four years and under" standard in their statutes.

Result	Age 4 & under Total	Child Restraint Used	Lap Belt &/or Harness Used	None Used	Unknown
Killed	9	1	0	7	1
Injured (incapacitating)	16	2	4	10	0
Injured (non-incapacitating)	12	2	5	5	0
Injured (possible)	9	3	0	6	0
Not Injured	12	4	6	2	0
TOTAL	58	12	15	30	1

Of the 58 child occupants (4 & under) in 1990 fatal accidents only 27 children were secured in a child restraint. Of the 9 children killed, 7 had no restraint and only 1 was using child safety seats. This information confirms what other studies have suggested regarding the effectiveness of child restraints. An infant or small child's survival can depend on whether the child was properly secured.

CHILD RESTRAINTS

BABY ALWAYS RIDES FACING REAR

Infant (Birth to sits up alone)	
Type of Seat	 
How to Use	<ul style="list-style-type: none"> • Face backward in car (baby faces padded vehicle seat back) • Harness baby snugly before putting on blanket • Secure vehicle safety belt where shown in instructions • Use semi-reclined position

■ The "best" car seat...

Fits your child.




Some seats fit only infants; others work only with toddlers who can sit up well. "Convertible" models adjust for use from birth to 4 years.

Fits your car.

Try before you buy. Follow manufacturer's instructions exactly; fasten safety belt tightly in position shown. Try in both back and front seats, although back seat is usually safer. Try convertible seats in infant and toddler positions.

Fits your needs.

Choose a seat that is easy for you to install in your car(s) and use on every ride. Some seats are easier to move from car to car. For a seat which requires the use of a top tether strap, you must install a special bolt in your car for rear seat use; some cars have pre-drilled holes or hardware for these bolts. For front seat use, fasten tether strap to an unused rear safety belt.

Toddler/Preschooler (Sits up alone to age 4 & 40 lbs.)	
Type of Seat	  
How to Use	<ul style="list-style-type: none"> • Face forward in car • Use complete harness and/or shield system • Secure vehicle safety belt where shown in instructions • Use upright position • Attach top tether strap (if required) • If no safety seat available, use safety belt

Support baby's head and body



Rolled
diapers,
blankets

■ How can I keep my child in the car seat?



Start a lifelong habit with baby's first ride. Strengthen the habit by *never* making an exception. Always wear your own safety belt.

■ Before you buy a used car seat, be sure you can answer "yes" to all of the questions on this checklist:

- Is it crash-tested?
- Do you have all the parts? (Harness, shield, tether)
- Is it free from signs of a crash? (Cracks or twisting)
- Will you get manufacturer's instruction booklet?

Four Rules for Safety

1. Never hold a child on your lap
2. Use a crash-tested seat
3. Always use the harness/shield
4. Attach the car safety belt correctly

Older Child (4 years, 40 lbs. and over)	
Type of Seat	 
How to Use	<ul style="list-style-type: none"> • Safety boosters: Use either harness or shield provided or shoulder/lap belt • Keep lap belt snug across hip/thigh bones • Vehicle shoulder harness must not cross face or neck • One safety belt per person

\$738 - \$830 MILLION

The COST of KENTUCKY TRAFFIC ACCIDENTS 1990



The calculable costs of motor vehicle accidents include wage loss, medical expense, and property damage. Two formulas provided by the National Safety Council were used to arrive at a "cost range" for traffic accidents in Kentucky during 1990.

The **high** range (\$830 million) was derived from the following formula:

Cost per accident	Number X Reported	Estimated = Cost
Fatalities		
@ \$220,000	X 850	= \$187,000,000
Non Fatal Injuries		
@ \$9,300	X 54,834	= \$509,956,200
Property Damage		
@ \$1,190	X 111,730	= \$132,958,700
TOTAL, HIGH ESTIMATE:		\$829,914,900

The **low** range (\$738 million) was derived from the following formula:

Urban Accident Deaths	Average X Cost	Estimated = Cost
166	X \$1,560,000	= \$258,960,000
Rural Accident Deaths		
684	X \$700,000	= \$478,800,000
TOTAL, LOW ESTIMATE:		\$737,760,000

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