

1998

PENNSYLVANIA CRASH FACTS & STATISTICS



GOVERNOR

70m Ridge

SECRETARY OF TRANSPORTATION

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Introduction

The 1998 Pennsylvania Crash Facts and Statistics booklet is a report published by the Bureau of Highway Safety and Traffic Engineering, Pennsylvania Department of Transportation. Permission is given to freely copy and distribute this booklet and the information within it.

This publication is a statistical review of reportable motor vehicle crashes in the Commonwealth of Pennsylvania for calendar year 1998. The figures are compiled from the traffic crash reports that are submitted to the Pennsylvania Department of Transportation by state, county, municipal, and other law enforcement agencies, as specified in the Pennsylvania Vehicle Code (75 Pa. C.S., Chapter 37, Subchapter C).

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How to Use This Booklet

This booklet is divided into sections by topic. In most cases, the topics are presented at a general level and become more specific. This year's booklet is similar to last year's format with only a few minor changes related to the data. Please read the narrative and notes associated with the tables/graphs to make sure the data presented is the data you want.

Look over the *Table of Contents* on the next page to see the list of topics and sections. If you are trying to find a particular piece of information, you might be able to locate it more quickly by looking at the *Index* on page 70.

Skim through the Definitions on page 4. Some terms can be misleading or confusing, even to experienced readers. For example, an "alcohol-related" crash does not necessarily mean the driver of the vehicle causing the crash was drunk. The driver of the vehicle not at fault might have been drinking, or even a pedestrian involved with the crash might have been drinking.

Black squares containing the section title have been added near the outer margins to make it easier for you to thumb through this booklet to find the section you are looking for.

After you have used this booklet, please complete and return the feedback survey form on the last page.

About the Cover

The vehicle on the front cover was involved in a single vehicle, alcohol-related crash. Fortunately, there were no major injuries in the crash, but many people are not so lucky.

In 1998, 535 people died in alcohol-related crashes in Pennsylvania. On average each day, 38 alcohol-related crashes occur and 1.5 people are killed due to an alcohol-related crash. For more information on alcohol-related crashes, see pages 26-33.

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Definitions

General Terms

Alcohol-Related Crash: Any reportable crash in which one or more of the drivers was reported to have been drinking, or a drinking pedestrian was involved.

DUI: Driving Under the Influence.

Child Passenger Restraint System: A combination of an approved child safety seat and existing vehicle safety belt restraints. Mandatory in Pennsylvania for all passengers under age four.

Harmful Event: An action which occurs within a crash (e.g., hitting a tree, hitting a deer, hitting a pedestrian, hitting another vehicle, etc.) and often results in personal injury or property damage. Holidays: The holiday weekend begins at 6:00 PM of the last working day before the holiday and ends at midnight on the last day of the holiday. Pre-holiday weekends and post holiday weekends are time periods equivalent to that of the weekend before or the weekend after the holiday, respectively. The same applies to holidays during the middle of the workweek where no weekend is involved. It is significant to look at pre- and post-holiday statistics because, in many instances, the number of crashes and/or deaths/injuries are equal to, or greater than, those occurring on the actual holiday weekend.

Passive Restraint: A safety restraint, i.e., air bag, automatic lap/shoulder harness, that is not actively engaged by a vehicle occupant.

Reportable Crash: A crash resulting in a death within 30 days of the crash; or injury in any degree, to any person involved; or crashes resulting in damage to any vehicle serious enough to require towing. Speed-Related Crash: Any reportable crash in which speed was listed as a contributing factor, whether or not the driver was noted as going over the posted speed limit.

TCD: Traffic Control Device. Includes traffic signals, stop signs, yield signs, and railroad crossing

Vehicle Defect: A fault in the vehicle, due to improper maintenance or other reasons, that can cause the driver to lose control, possibly resulting in a crash.

Vehicle-Miles of Travel: A measure that indicates the number of miles traveled by vehicles on PA roadways.

Work Zone: An area, usually marked by signs, barricades, or other devices indicating that highway construction or maintenance activities are going on.

Crash Types

A description which characterizes the first harmful event of the crash and is described as one of the following:



Non-Collision: A harmful event that does not involve a collision with a fixed object or a nonfixed object. These events include explosion, fire, overturn, immersion and vehicle struck by flying object.



Angle: A crash in which two vehicles on opposite roadways collide at a point of junction, such as a road intersection, driveway, or entrance ramp.

Rear-End: A crash in which vehicles traveling in the same direction, on the same road, collide (vehicle front into vehicle rear).

Head-On: A crash in which vehicles traveling in opposite directions, on the same road, collide (vehicle front into vehicle front).

Sideswipe: A crash between two vehicles (traveling in same direction or opposite direction) in which the sides of both vehicles engage.



Hit Fixed Object: A collision in which a vehicle collides with stationary object(s) along and adjacent to the roadway, (i.e. bridge piers, trees, utility poles, embankment, guiderail, etc.).

Hit Pedestrian: A collision between a motor vehicle and any person(s) not in or upon the vehicle.

Crash Severity

Fatal Crash: A crash in which one or more of the involved persons died within 30 days of the crash and the death(s) are attributable to the crash.

Crash Severity (continued)

Injury Crash: A crash in which none of the involved persons were killed, but at least one was injured. **Property Damage Only (PDO):** A reportable crash where no one was killed or injured, but damage to the vehicle required towing.

Injury Severity

Death: As used in this booklet, any injury which causes death within 30 days of a crash and that death is attributable to the crash.

Major Injury: Any injury, other than fatal, which by its severity requires immediate emergency transport, such as an ambulance, to a hospital or clinic for medical treatment and /or hospitalization. Major injuries would include amputation of limb(s), severe burns, etc.

Moderate Injury: Any injury which may require some form of medical treatment, but is not life-threatening or incapacitating. These injuries should be visible. Moderate injuries would include a cut which requires several stitches, or a broken finger or toe.

Minor Injury: Any injury which can be treated by first aid application, whether at the scene of the crash or in a medical facility. Complaints of injuries which are not visible, and do not appear to be of any major or moderate nature, should be considered as minor injuries.

Person Type

Driver: The occupant of a vehicle who is in actual physical control of a vehicle in transport or, for an out-of-control vehicle, the occupant who was in control before control was lost.

Occupant: Any person who is in or upon a vehicle, including the driver, passenger, and person riding on the outside of the vehicle.

Passenger: Any occupant of a vehicle who is not the driver.

Pedestrian: Any person not in or upon a vehicle.

Road Types

Local Roads: Any roadway that is maintained by an entity other than the state. Includes county, township, town, borough, and private.

State Highway (Interstate): Any state-maintained roadway that carries the interstate designation and is marked with red, white, and blue shield-shaped sign.

State Highway (Other): Any state-maintained roadway that is not designated as an interstate. Many (but not all) such roads are marked with a black and white keystone-shaped sign.

Turnpike: The Pennsylvania Turnpike system, which includes the main Turnpike and other toll facilities maintained by the Pennsylvania Turnpike Commission.

Vehicle Types

Passenger Car: Vehicle designed to transport eight people or less. Includes: convertible, hardtop, sedan, station wagon, limousine, etc.

Light Truck: Single vehicle designed for carrying a load of property on or in the vehicle. Includes: pickup truck, sport utility vehicle, van (excluding moving horse), jeep, tow truck, etc.

Heavy Truck: Single vehicle or tractor-trailer combination designed for carrying a heavy load of property on or in the vehicle. Includes: single unit trucks (e.g., coal truck), tractor-trailers, motor homes, etc.

Bus: Vehicle designed to transport more than eight people. Includes school bus, cross-country bus, urban transit, trackless trolley.

Motorcycle: Includes: motorcycle, mo-ped, mini-bike, motor scooter, trike (motorized tricycle), go-cart, vendor cycle.

Bicycle: As used in this booklet, any non-motorized vehicle propelled by pedaling. Includes: unicycle, bicycle, tricycle, Big Wheel.

Special Motorized Vehicle: Includes ambulance, hearse, snowmobile, farm tractor, motorized farm equipment, self-propelled campers and homes, motorized construction equipment, dune/swamp buggy (ATV).

Track/Non-Motorized Vehicle: Includes: train, trolley, horse and buggy, horse and rider.

Overview

The Commonwealth of Pennsylvania is comprised of 67 counties. Each county is made up of local municipalities, a combination of cities, boroughs, first class townships, and/or second class townships. In total, there are approximately 2,500 municipalities throughout the 67 counties. One of these municipalities, the Town of Bloomsburg in Columbia County, is the only official "town" in Pennsylvania.

Pennsylvania has over 119,000 miles of roads and highways; 34% (40,667 miles) are state highways maintained by the Pennsylvania Department of Transportation (PennDOT), and the remaining 66% (78,612) are maintained by local municipalities.

Motor-vehicle traffic crashes which occur on Pennsylvania roads and highways are investigated and reported on by both the Pennsylvania State Police and the many (approximately 1,300) local municipal police departments. The valuable information originating from these police crash reports is the basis for the statistics that are presented throughout this booklet.

In 1998, there were 140,972 reportable traffic crashes in Pennsylvania. These crashes claimed the lives of 1,486 people and injured another 134,092 people. To add some perspective, the 1998 total traffic deaths is the second highest since 1994.

In 1998, there were approximately 100.4 billion vehicle-miles of travel on Pennsylvania's roads and highways. The 1998 fatality rate of 1.48 deaths per hundred million vehicle-miles of travel was the lowest ever recorded in Pennsylvania.

1998 Briefs

On Average in Pennsylvania:

- ► Each day 386 reportable traffic crashes occurred (about 16 crashes every hour).
- ► Each day 4 persons were killed in reportable traffic crashes (one death every 6 hours).
- ► Each day 367 persons were injured in reportable crashes (about 15 injuries every hour).

Based on Pennsylvania's 1998 population (12,001,451 people):

- ▶ 1 out of every 33 people was involved in a reportable traffic crash.
- ▶ 1 out of every 8,088 people was killed in a reportable traffic crash.
- ▶ 1 out of every 90 people was injured in a reportable traffic crash.

Injury Crashes

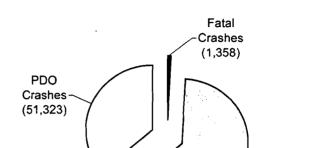
(88,291)

All Crashes and Deaths —WHO WAS INVOLVED—

Crashes by Injury Severity

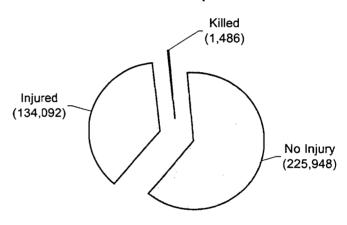
Crashes involving deaths and major injuries are always devastating to the family and friends of the victims.

Thankfully, the vast majority of crashes are not fatal. Most crashes, however, do cause varying types of injuries. Of the total people involved in crashes in Pennsylvania in 1998, most were not injured, and the vast majority who were injured suffered only minor injuries.

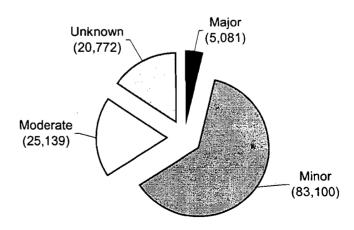


Total Crashes

Total People



Total People--Injured



Deaths and Injuries—Five-Year Trends

Total reported crashes in 1998 decreased 2.1% compared to 1997; total injuries decreased by 3.4% and deaths decreased by 4.9%. Alcohol-related deaths increased by 4.1%.

	1994	1995	1996	1997	1998
Reported Crashes	134,171	136,804	142,867	143,981	140,972
Total Deaths	1,440	1,480	1,470	1,562	1,486
Total Injuries	130,678	133,177	136,949	138,820	134,092
Major Injury	5,215	5,474	5,250	5,373	5,081
Moderate Injury	17,914	17,073	17,493	18,837	25,139
Minor Injury	89,087	92,332	95,148	93,806	83,100
Unknown Injury	18,462	18,298	19,058	20,804	20,772
Pedestrian Deaths	179	198	218	175	166
Pedestrian Injuries	6,269	6,197	5,863	6,021	5,895
Motorcyclist Deaths	112	85	98	92	111
Motorcyclist Injuries	2,626	2,584	2,320	2,478	2,626
Bicyclist Deaths	19	19	26	17	23
Bicyclist Injuries	2,619	2,742	2,403	2,525	2,768
Heavy-Truck-Related Deaths	222	198	192	203	192
Alcohol-Related Deaths	523	514	503	514	535
Speed-Related Deaths	279	257	268	251	197
Billions of Vehicle-Miles	92.3	94.5	96.4	98.3	100.4
Deaths per 100 Million Vehicle-Miles	1.56	1.57	1.52	1.59	1.48

Note: Speed-Related Deaths only count those crashes where speed was considered the prime contributing factor in the crash.

Economic Loss Due to Reportable Traffic Crashes

Severity	Number	Average Cost	Estimated Total Costs
Deaths (persons)	1,486	\$2,835,456	\$4,213,487,616
Major Injuries (persons)	5,081	\$1,029,281	\$5,229,776,761
Moderate Injuries (persons)	25,139	\$68,796	\$1,729,462,644
Minor Injuries (persons)	83,100	\$5,453	\$453,144,300
Property Damage Only (crashes)	51,323	\$2,181	\$111,935,463
Unknown Injuries (persons)	20,772	\$5,453	\$113,269,716
		TOTAL	\$11,851,076,500

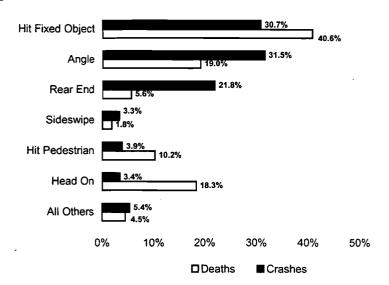
In 1998, the economic loss due to traffic crashes was \$987

to every man, woman, and child in Pennsylvania.

Figures are based on the latest PennDOT estimates (in 1998 dollars). The economic loss per Pennsylvania citizen is based on the ratio of estimated total cost to the estimated total population of Pennsylvania.

Crashes by Crash Type

Many different types of crashes occur on Pennsylvania roads, but certain types of crashes are more prevalent. More crashes involved a single vehicle hitting a fixed object (tree, guide rail, etc.) than any other type. Headon collisions, though they occur much less frequently, cause the third highest number of deaths.

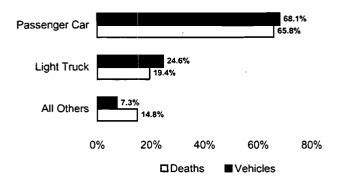


Crash Type	Crashes	Deaths
Angle	44,399	283
Backing Up	444	1
Head On	4,845	272
Hit Fixed Object	43,250	603
Hit Pedestrian	5,533	151
Non-Collision	4,715	61
Rear End	30,734	83
Sideswipe	4,648	27
Other	2,404	5
TOTAL	140,972	1,486

*Note that, by definition, a Hit Pedestrian Crash only involves those crashes where the pedestrian being struck was the first harmful event. Therefore the pedestrian crashes and deaths shown in this section are slightly different than those shown elsewhere in this book, which include all pedestrian harmful events.

Vehicles Involved in Crashes

Passenger cars were involved in more crashes than all other vehicle types combined. Coupled with light trucks, they accounted for the vast majority of crashes and occupant deaths.

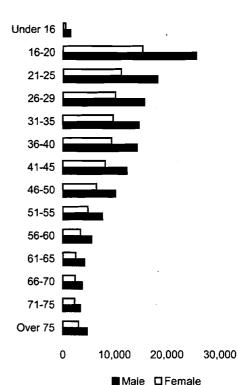


		Occupant
	Vehicles	Deaths
Passenger Car	164,014	869
Light Truck	59,360	256
Heavy Truck	7,806	38
Bicycle	2,775	23
Motorcycle	2,684	111
Commercial Bus	628	7
School Bus	500	1
Other	3,215	15

Driver Involvement in Crashes by Age and Sex

In every age group, male drivers are involved in more crashes than female drivers. Male drivers ages 16-20 are involved in more crashes than drivers in any other age group (male or female).

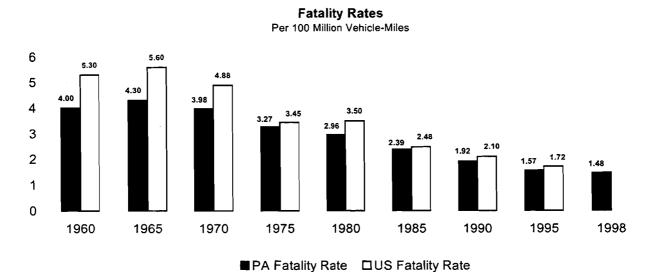
			Total
Driver	Male	Female	Drivers
Under 16	1,389 (1.0%)	410 (0.5%)	1,799
16-20	25,391 (17.5%)	15,287 (16.9%)	40,678
21-25	_ 18,156 (12.5%)	11,214 (12.4%)	29,370
26-29	15,718 (10.8%)	10,165 (11.2%)	25,883
31-35	14,687 (10.1%)	9,680 (10.7%)	24,367
36-40	14,297 (9.9%)	9,425 (10.4%)	23,722
41-45	12,355 (8.5%)	8,186 (9.0%)	20,541
46-50	10,152 (7.0%)	6,513 (7.2%)	16,665
51-55	7,683 (5.3%)	<u>4,861 (5.4%)</u>	12,544
56-60	5,560 (3.8%)	3,391 (3.7%)	8,951
61-65	4,300 (3.0%)	2,510 (2.8%)	6,810
66-70	3,798 (2.6%)	2,348 (2.6%)	6,146
71-75	3,439 (2.4%)	2,276 (2.5%)	5,715
Over 75	4,778 (3.3%)	3,080 (3.4%)	7,858
Unknown	3,407 (2.4%)	1,267 (1.4%)	4,674
DRIVERS	145,110 (100.0%)	90,613 (100.0%)	235,723



Note: Does not include 4,348 drivers of unknown sex.

Highway Crash Historical Data

Fatality rates have fallen dramatically over the past 60 years as vehicles, roadways, and other factors have improved. Pennsylvania's fatality rate has also been lower than the US average for most years since 1937. The chart below shows periodic fatality rates since 1960.



				Registered	Motor Vehicle		
Year	Total Crashes	Total Killed	Total Injured	Vehicles	Mileage*	PA Fatality Rate**	US Fatality Rate**
1928	27,082	2,080	20,223	1,713,920	-	-	-
1929	43,776	2,331	35,648	1,829,685	-	-	-
1930	47,917	2,566	99,793	1,843,539	•		<u> </u>
1931	46,588	2,503	40,800	1,826,736	-	-	-
1932	41,004	2,131	41,836	1,750,664	-	•	•
1933 1934	45,374 52,157	2,279	47,908 54,947	1,716,104	•	-	-
1934	50,436	2,535 2,361	51,847 48,398	1,791,870 1,851,945	11.1	21.30	-,
1936	55,727	2,426	50,854	1,989,507	12.6	19.20	15.90 15.10
1937	73,534	2,564	61,445	2,124,525	17.6	14.60	14.70
1938	93,153	1,892	50,598	2,101,299	16.3	11.60	12.00
1939	69,950	1,871	55,821	2,237,960	18.5	10.10	11.30
1940	78,625	2,074	58,664	2,307,723	19.8	10.50	11.40
1941	83,507	2,298	60,499	2,432,319	21.3	10.80	12.00
1942	59,280	1,745	41,122	2,267,301	17.6	9.90	10.60
1943	37,419	1,374	27,312	2,084,332	13.9	9.90	11.50
1944	42,699	1,328	29,928	2,010,163	14,4	9.20	11.50
1945	53,304	1,453	35,686	2,145,452	16.0	9.10	11.30
1946	70,065	1,794	45,889	2,387,542	22.1	8.10	9.80
1947 1948	89,190 103,478	1,678	49,938 52,700	2,604,741	22.4	7.50	8.80
1948	103,478 102,098	1,671 1,624	52,709 54,290	2,804,056 2,993,903	23.9 25.8	7.00 6.30	8.10 7.50
1950	113,748	1,624	62,103	3,262,243	25.8 27.1	6.00	7.50 7.60
1951	123,088	1,642	65,643	3,413,836	28.8	5.70	7.10
1952	126,820	1,680	67,143	3,510,064	30.5	5.50	7.10
1953	129,791	1,643	70,531	3,684,468	31.6	5.20	6.70
1954	130,326	1,538	68,571	3,903,917	32.0	4.80	6.10
1955	147,837	1,737	76,836	4,045,995	34.5	5.00	6.10
1956	160,371	1,790	84,813	4,175,217	36.5	4.90	6.10
1957	161,080	1,698	84,755	4,250,576	37.7	4.50	5.80
1958	156,825	1,654	86,733	4,355,813	38.5	4.30	5.40
1959	157,191	1,685	90,807	4,507,262	39.2	4.30	5.40
1960	159,051	1,609	92,792	4,707,055	40.2	. 4.00	5.30
1961 1962	156,559 161,557	1,486 1,625	73,997 81,936	4,842,400 4,849,400	40.2 41.7	3.70 3.90	5.20 5.30
1962	174,527	1,830	86,892	5,117,229	44.6	4.10	5.50 5.50
1964	183,910	1,889	93,564	5,351,350	46.1	4.10	5.70
1965	213,769	2,079	111,123	5,436,349	48.3	4.30	5.60
1966	254,450	2,180	116,537	5,497,000	55.1	4.27	5.70
1967	243,798	2,331	126,417	5,673,000	53.4	4.37	5.50
1968	279,663	2,410	138,389	5,791,000	56.1	4.29	5.40
1969	292,192	2,401	141,728	5,879,000	58.6	4.10	5.21
1970	311,981	2,255	136,518	5,947,000	56.7	3.98	4.88
1971	301,374	2,299	127,318	6,079,000	60.9	3.78	4.57
1972†	277,556	2,352	135,938	6,244,000	67.0	3.51	4.43
1973 1974	307,648	2,444 2,155	145,452 132,689	7,007,192	66.5 63.9	3.67 3.37	4.24 3.59
1974	277,271 288,245	2,183	134,969	8,354,063 8,654,333	63.7	3.27	3.45
1976	303,771	2,025	135,308	9,124,915	69.4	2.92	3.33
1977	234,702	2,071	148,725	8,833,745	72.3	2.87	3.35
1978‡	158,361	2,137	146,403	7,254,893	72.7	2.94	3.39
1979	156,622	2,204	144,300	7,451,021	70.3	3.14	3.50
1980	142,489	2,114	133,716	7,307,974	71.3	2.96	3.50
1981	138,764	2,049	131,301	7,252,836	71.5	2.87	3.30
1982	131,579	1,848	126,026	7,417,311	71.3	2.59	2.88
1983	131,081	1,752	126,707	7,562,726	72.3	2.42	2.69
1984	139,914	1,752	134,714	7,724,686	74.1 75.6	2.36 2.39	2.68 2.48
1985 1986	143,244 150,683	1,809 1,928	140,067 148,044	7,860,497 7,793,921	75.6 77.2	2.59	2.48
1987	152,631	2.006	151,457	8,313,799	77.2 78.9	2.54	2.40
1988	152,906	1,932	154,018	8,452,365	81.3	2.38	2.32
1989	151,461	1,878	152,589	8,605,747	84.5	2.22	2.20
1990	141,340	1,646	142,945	8,675,835	85.7	1.92	2.10
1991	130,404	1,661	130,446	8,757,129	87.3	1.90	1.90
1992	133,913	1,545	133,113	8,915,621	89.0	1.74	1.80
1993	134,315	1,530	131,503	9,044,901	90.8	1.68	1.80
1994	134,171	1,440	130,678	9,255,714	92.3	1.56	1.83
1995	136,804	1,480	133,177	9,271,517	94.5	1.57	1.40
1996	142,867	1,470	136,949	9,411,261	96.4 98.3	1.53 1.59	1.69
1997	143,981	1,562	138,820 134,092	9,692,499 9,842,427	100.4	1.59	1.64
1998	140,972	1,486	134,092	3,042,421	100.4	1.40	

^{*} In billions

^{**} Per 100 million vehicle-miles

[†] From 1972 to 1978, reportable crashes defined as over \$200 in damage

[‡] From 1978 to present, reportable crashes defined as involving any type of injury and/or vehicle(s) requiring towing from the scene

—WHAT CONDITIONS WERE—

Crashes by Weather and Road Surface Conditions

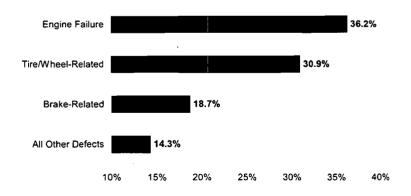
Adverse weather and road surface conditions negatively affect vehicle handling and driver sight. Interestingly, the vast majority of crashes occur under no adverse conditions. This can be attributable to: 1) weather and roads being clear and dry most of the time and 2) drivers failing to use caution under optimal road conditions. The figures shown in both tables are for all highway types.

Weather Condition	Crashes	Deaths
No Adverse Conditions	111,342 (79.0%)	1,259 (84.7%)
Rain/Rain & Fog	22,946 (16.3%)	172 (11.6%)
Snow/Sleet/Freezing Rain	5,057 (3.6%)	39 (2.6%)
Fog/Smoke, Etc.	871 (0.6%)	14 (0.9%)
Other	756 (0.5%)	2 (0.1%)
TOTAL	140,972 (100.0%)	1,486 (100.0%)

Road Surface Condition	Crashes	Deaths
Dry	104,761 (74.3%)	1,185 (79.7%)
Wet	29,575 (21.0%)	252 (17.0%)
Ice/Ice Patches	2,650 (1.9%)	19 (1.3%)
Snow	2,392 (1.7%)	17 (1.1%)
Other	_ 1,594 (1.1%)	13 (0.9%)
TOTAL	140,972 (100.0%)	1,486 (100.0%)

Crashes Involving Vehicle Defects

Improperly-maintained vehicles can lead to crashes. In 1998, engine, tire/wheel, and brake-related failures contributed to the majority of vehicle defect related crashes. The percentages in the graph below refer to the number of crashes involving vehicle defects.

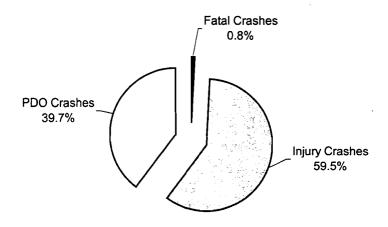


Vehicle Defect	Crashes
Engine Failure	1,036
Tire/Wheel-Related	884
Brake-Related	534
Total Steering System Failure	202
Dirty/Frosty Windshield	59
Transmission Problem	47
Suspension	42
Vehicle Lighting-Related	38
Defective Defrosting	9
Exhaust System Failure	7
Defective Wipers	4

Note the above list only counts crashes where a vehicle defect was the primary contributing factor in the crash.

Work Zone Crashes

Work zones are potentially dangerous areas because conditions are constantly changing, and drivers do not always anticipate these changes and exercise the appropriate level of caution. About sixty percent of work zone crashes in 1998 contained injuries.



Total Crashes: 2,016

Total Killed: 19 (Workers Killed: 0)

Total Injured: 1,848 (Workers Injured: 25)

Work Zone Crashes—Vehicles Involved

Vehicle Type	State Hwy (Interstate)	State Hwy (Other)	Turnpike	Local Road
Passenger Car	276 (47.1%)	1,593 (63.5%)	40 (38.8%)	369 (70.2%)
Light Truck	150 (25.6%)	689 (27.5%)	15 (14.6%)	107 (20.3%)
Heavy Truck/Bus	149 (25.4%)	168 (6.7%)	44 (42.7%)	28 (5.3%)
Motorcycle	4 (0.7%)	24 (1.0%)	3 (2.9%)	2 (0.4%)
Other	7 (1.2%)	35 (1.4%)	1 (1.0%)	20 (3.8%)
TOTAL	586 (100.0%)	2,509 (100.0%)	103 (100.0%)	526 (100.0%)

Note: State highway (other) includes state-maintained roads that are not designated as interstates.

Work Zone Crashes by Road Type—Five-Year Trends

		Crashes		Dea	ths
Year	Road Type	Number	% Total	Number	% Total
	State Hwy (Interstate)	525	27.1%	8	42.1%
	State Hwy (Other)	1,012	52.3%	7	36.8%
1994	Turnpike	133	6.9%	2	10.5%
ļ	Local Road	265	13.7%	2	10.5%
	Ramp	-		ı	
	TOTAL	1,935	100.0%	19	100.0%
	State Hwy (Interstate)	477	23.9%	4	20.0%
	State Hwy (Other)	1,118	56.1%	9	45.0%
1995	Turnpike	87	4.4%	2	10.0%
	Local Road	312	15.6%	5	25.0%
	Ramp	-	-	<u> </u>	-
	TOTAL	1,994	100.0%	20	100.0%
	State Hwy (Interstate)	448	22.1%	4	26.7%
	State Hwy (Other)	1,086	53.6%	8	53.3%
1996	Turnpike	130	6.4%	1	6.7%
	Local Road	273	13.5%	1	6.7%
	Ramp	89	4.4%	1	6.7%
	TOTAL	2,026	100.0%	15	100.0%
	State Hwy (Interstate)	387	20.1%	3	18.8%
	State Hwy (Other)	1,096	56.8%	11	68.8%
1997	Turnpike	68	3.5%	0	0.0%
	Local Road	270	14.0%	. 2	12.5%
	Ramp	109	5.6%	0	0.0%
	TOTAL	1,930	100.0%	16	100.0%
	State Hwy (Interstate)	313	15.5%	4	21.1%
	State Hwy (Other)	1,312	65.1%	14	73.7%
1998	Turnpike	58	2.9%	0	0.0%
	Local Road	249	12.4%	0	0.0%
	Ramp	84	4.2%	1	5.3%
	TOTAL	2,016	100.0%	19	100.0%

Note: State highway (other) includes state-maintained roads that are not designated as interstates.

1996 was the first year ramps were treated as a separate road type. In previous years, ramps were included within the associated road type.

Crashes with Roadside Objects and Animals

Unfortunately, roadside objects are hit often in Pennsylvania crashes. While there are many different roadside objects, a few are more predominant in crashes than others. The table below lists crashes with various types of roadside objects whether or not they were the first object struck.

Roadside Object	Crashes	% Total	Deaths	% Total
Hit Bridge	1,020	0.7%	35	2.4%
Hit Building	1,664	1.2%	34	2.3%
Hit Culvert	892	0.6%	31	2.1%
Hit Curb	3,753	2.7%	67	4.5%
Hit Ditch	2,716	1.9%	59	4.0%
Hit Embankment	8,791	6.2%	212	14.3%
Hit Fence	2,186	1.6%	37	2.5%
Hit Fire Hydrant	426	0.3%	4	0.3%
Hit Guiderail	5,698	4.0%	166	11.2%
Hit Impact Attenuator	49	0.0%	1	0.1%
Hit Mailbox(es)	1,443	1.0%	36	2.4%
Hit Median Barrier	2,788	2.0%	35	2.4%
Hit Obstacle on Roadway	535	0.4%	3	0.2%
Hit Other Fixed Object	1,964	1.4%	45	3.0%
Hit Overhead Structure	71	0.1%	0	0.0%
Hit Parked Vehicle	6,595	4.7%	52	3.5%
Hit Rock(s)	1,082	0.8%	18	1.2%
Hit Shrubs/Hedges	2,995	2.1%	. 82	5.5%
Hit Signal/Sign Support	3,046	2.2%	73	4.9%
Hit Snow Bank	30	0.0%	1_	0.1%
Hit Temporary Construction Barrier	74	0.1%	1	0.1%
Hit Traffic Island or Channelization	311	0.2%	4	0.3%
Hit Tree(s)	8,749	6.2%	286	19.3%
Hit Utility Pole(s)	9,766	6.9%	186	12.5%
Hit Wall	1,328	0.9%	28	1.9%
Hit Deer	2,121	1.5%	4	0.3%
Hit Other Animal	192	0.1%	1	0.1%

Note: "% Total" lists the percentage compared to *all* crashes or deaths, not only the ones listed in this table.

--WHERE THEY HAPPENED-

Crashes by Road Type

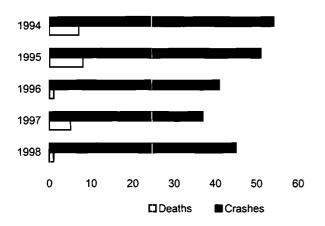
	State Hwy (Interstate)	State Hwy (Other)	Turnpike	Local Road	Ramp
Crashes	6,229	88,473	1,940	42,397	1,933
Person Killed	102	1,098	24	248	14
Persons Injured	5,114	86,399	1,506	39,308	1,765
Miles of Maintained Road	1,278	38,884	505	78,612	781
100 MVM* Traveled	162.7	604.9	53.1	182.9	
Crashes/MVM*	0.38	1.46	0.37	2.32	
Persons Killed/100 MVM*	0.63	1.82	0.45	1.36	
Persons Injured/MVM*	0.31	1.43	0.28	2.15	

^{*} MVM = million vehicle-miles

Note: State highway (other) includes state-maintained roads that are not designated as interstates. The road mileage and MVM data are from the 1998 Highway Performance Monitoring System (HPMS) package and reflects 1998 length and travel activity data. Ramp miles are not included in any category or total.

Crashes Between Trains and Other Vehicles—Five-Year Trends

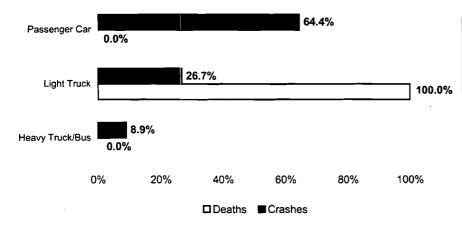
Motor vehicle/train crashes make up a very small percentage of total crashes. In the last three years, only seven deaths have occurred in this type of crash.



Year	Crashes	Deaths
1994	54	7
1995	51	8
1996	41	1
1997	37	5
1998	45	1

Train/Vehicle Crashes by Vehicle Type

Passenger cars and light trucks were the predominant vehicle types involved in crashes with trains in 1998.

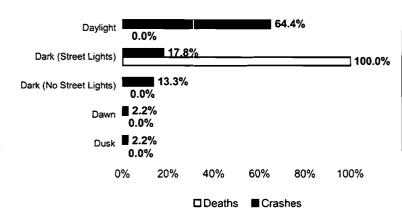


Vehicle Type	Crashes	Deaths
Passenger Car	29	0
Light Truck	12	1
Heavy Truck	3	0
Commercial Bus	1	0
Bicycle	0	0
Motorcycle	0	0
School Bus	0	0
Unknown	0	0
TOTAL	45	1

Train/Vehicle Crashes by Road Type

Road Type	Crashes	Deaths
Local Road	33	1
State Hwy (Other)	12	0
TOTAL	45	1

Train/Vehicle Crashes by Light Level



Light Level	Crashes	Deaths
Daylight	29	0
Dark (Street Lights)	8	1
Dark (No Street Lights)	6	0
Dawn	1	0
Dusk	1	0
TOTAL	45	1

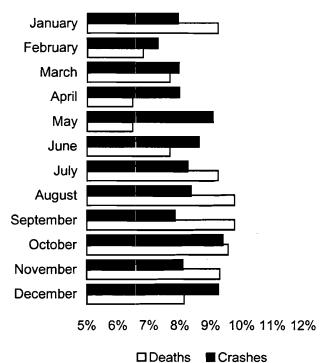
Train/Vehicle Crashes by County

County	Crashes	Deaths
Adams	1	0
Allegheny	2	0
Blair	2	_ 0
Bucks	1	0
Chester	1	0
Clarion	1	0
Clearfield	1	0
Cumberland	1	0
Delaware	1_	0
Erie	4	0
Fayette	1	0
Franklin	3	0
Greene	1	0
Lancaster	4	0
Lebanon	1	0

County	Crashes	Deaths
Lehigh	2	0
Mckean	1	0
Montgomery	2	0
Montour	1	0
Northampton	2	0
Northumberland	2	0
Schuylkill	4	0
Somerset	1	0
Washington	1	0
Westmoreland	3	1
York	1	0
TOTAL	45	1

—WHEN THEY HAPPENED—

Crashes by Month



Month	Crashes	Deaths
January	11,182 (7.9%)	137 (9.2%)
February	10,258 (7.3%)	101 (6.8%)
March	11,218 (8.0%)	114 (7.7%)
April	11,255 (8.0%)	96 (6.5%)
May	12,793 (9.1%)	96 (6.5%)
June	12,136 (8.6%)	114 (7.7%)
July	11,624 (8.3%)	137 (9.2%)
August	11,790 (8.4%)	145 (9.8%)
September	11,050 <u>(7.8</u> %)	145 (9.8%)
October	13,237 (9.4%)	142 (9.6%)
November	11,404 (8.1%)	138 (9.3%)
December	13,025 (9.2%)	121 (8.1%)
TOTAL	140,972 (100.0%)	1,486 (100.0%)

Crashes by Day of Week

More crashes and deaths tend to occur on Friday and Saturdays. The number of deaths on Saturday and Sunday is proportionally greater than the number of crashes, which could be attributed to alcohol use. (See *Victims of Fatal Crashes by Day of Week*, page 29).



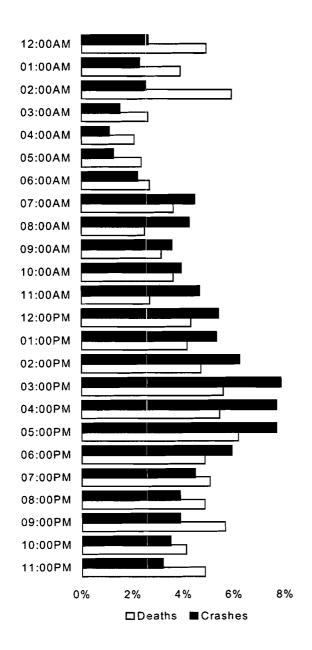
Day	Crashes	Deaths
Monday	18,279 (13.0%)	172 (11.6%)
Tuesday	19,756 (14.0%)	198 (13.3%)
Wednesday	20,149 (14.3%)	190 (12.8%)
Thursday	20,906 (14.8%)	212 (14.3%)
Friday	24,346 (17.3%)	233 (15.7%)
Saturday	21,095 (15.0%)	269 (18.1%)
Sunday	16,441 (11.7%)	212 (14.3%)
TOTAL	140,972 (100.0%)	1,486 (100.0%)

4% 6% 8% 10% 12% 14% 16% 18% 20%

□ Deaths ■ Crashes

Crashes by Hour of Day

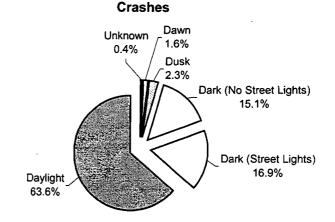
Some hours of the day are more dangerous than others with regard to crashes and deaths. Not surprisingly, crashes and deaths were higher during peak traffic time. Some hours of the day experience a low percentage of crashes, but they are much more deadly. For example, only 2.5% of all crashes in 1998 occurred in the 2:00 AM hour, but 5.9% of all deaths—the second highest percentage—occurred then. The higher the volume of traffic itself is a factor during peak traffic hours, particularly the rush-hours.



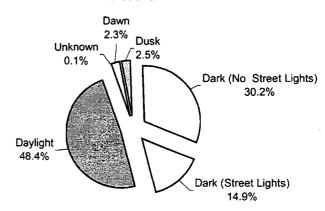
Hour	Crashes	Deaths
12:00AM	3,714	73
01:00AM	3,227	58
02:00AM	3,585	88
03:00AM	2,146	39
04:00AM	1,549	31
05:00AM	1,793	35
06:00AM	3,136	40
07:00AM	6,322	54
08:00AM	5,995	37
09:00AM	5,046	47
10:00AM	5,551	54
11:00AM	6,574_	40
12:00PM	7,625	64
01:00PM	7,519	62
02:00PM	<u>8,78</u> 4	_70
03:00PM	11,100	83
04:00PM	10,821	81
05:00PM	10,826	92
06:00PM	8,337	72
07:00PM	6,283	75
08:00PM	5,466	72
09:00PM	5,451	84
10:00PM	4,941	61
11:00PM	4,493	72

Crashes by Light Level

In 1998, more crashes occurred in daylight than all other light levels combined. This is not surprising, since more vehicles are on the road during daylight. However, deaths in 1998 occurred slightly more often during non-daylight hours (dark and dusk/dawn conditions). If 1998 deaths per 1000 crashes are compared (Daylight—8.0 deaths per 1000 crashes versus Non-Daylight—15.1 deaths per 1000 crashes), it is apparent that non-daylight crashes resulted in deaths more often than daylight crashes.



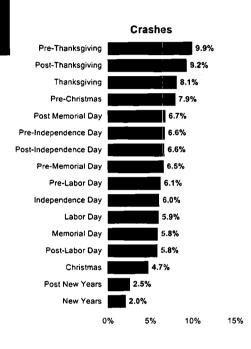




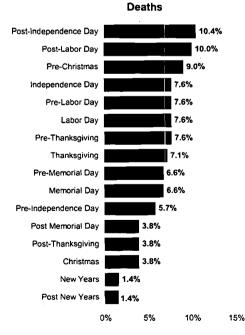
Light Level	Crashes	Deaths
Daylight	89,607	719
Dark (Street Lights)	23,892	222
Dark (No Street Lights)	21,342	472
Dusk	3,294	37
Dawn	2,237	34
Unknown	600	2
TOTAL	140,972	1,486

Crashes by Holiday

With few exceptions, most crashes occurred in the weekends directly before or after a holiday. Most deaths, however, averaged about the same before, during, and after the holiday. The graphs below illustrate the ranking in descending order, of total crashes and deaths, respectively, for each holiday period. The table shows a breakdown of crashes and deaths for each holiday period in 1998.



Period*	Crashes	Deaths
New Years**	374	3
Post New Years**	466	3
Pre-Memorial Day	1,213	14
Memorial Day	1,087	14
Post Memorial Day	1,254	_ 8
Pre-Independence Day	1,240	12
Independence Day	1,119	16
Post-Independence Day	1,233	22
Pre-Labor Day	1,152	16
Labor Day	1,106	16
Post-Labor Day	1,082	21
Pre-Thanksgiving	1,849	16
Thanksgiving	1,510	15
Post-Thanksgiving	1,729	8
Pre-Christmas	1,479	19
Christmas	876	8
TOTAL	18,384	211



- See Holidays under **Definitions** for explanation of pre- and post-holiday weekends.
- ** Not part of a holiday weekend in 1998.

Drivers

Drivers Overview

Every traffic crash involves 3 elements: the driver, highway, and vehicle. It has been stated nationally that 85-90% of all traffic crashes involve some sort of driver error that contributes to the crash. Therefore, as drivers, we can greatly impact traffic safety by Driving Smart and Driving Defensively.

Of all drivers represented in crashes, the young driver and the mature driver are two groups that stand out. Young drivers (ages 16-21) are the least experienced drivers and they are also prone to over zealous driving performance, perhaps due to their youth and peer pressure. Mature drivers (ages 65 & over) on the other hand experience driving difficulties related to deteriorating physical abilities (eyesight, hearing, head movement, etc.).

Crashes Involving Driver Error

Some form of poor/degraded driver performance is present in the majority of crashes. Alcohol use and speeding continue as big contributors to fatal crashes.

Note that in 1998, only primary contributing factors in the crash are considered.

		Fatal
Contributing Factor	Crashes	Crashes
Speed-Related	16,424	183
Drinking Driver	6,768	163
Proceeded Without Clearance	10,276	73
Improper Turning-Related	12,523	48
Tailgating	12,764	26
Drowsy Drivers	2,409	22
Careless/illegal Passing	1,732	21
Distracted Driver	3,066	8

Single and Multiple Vehicle Crashes of Young and Mature Drivers

As the table below shows, mature drivers are over-represented in multiple vehicle crashes, due in part to the loss of physical and cognitive abilities.

Number of Vehicles	All Drivers	Young Drivers (16-21)	Mature Drivers (65-74)	Mature Drivers (75+)
Single	38.6%	34.5%	14.8%	15.4%
Vehicle Crash	54,392 crashes	15,020 crashes	1,720 crashes	1,327 crashes
Multiple	61.4%	65.5%	85.2%	84.6%
Vehicle Crash	86,580 crashes	28,543 crashes	9,888 crashes	7,286 crashes

Drivers in Crashes by Age Group

Looking at the 1998 Pennsylvania driver data, as driver age groups increase in age, the percentage of Pennsylvania licensed drivers involved in crashes within each age group decreases considerably. Also note the large population of mature Pennsylvania drivers age 70 and over.

Age Group	PA Drivers Involved in Crashes	PA Total Licensed Drivers	% Involved in Crashes
16	6,505	47,030	13.8%
17	8,932	84,409	10.6%
18	8,506	113,558	7.5%
19	7,349	123,950	5.9%
20	6,458	121,798	5.3%
21	5,974	123,818	4.8%
22-24	15,341	374,782	4.1%
25-29	23,180	712,688	3.3%
30-39	43,302	1,880,245	2.3%
40-54	47,024	2,480,934	1.9%
55-59	8,865	567,983	1.6%
60-64	6,415	465,838	1.4%
65-69	5,756	437,976	1.3%
70-74	5,506	426,364	1.3%
75 and Over	8,466	625,579	1.4%
Unknown	1,75 <u>8</u>	N/A_	N/A

Comparison of Young and Mature Drivers by Crash Type

Young drivers are over-represented in hit fixed object crashes (single vehicle run-off-the-road type crashes), while mature drivers are over-represented in angle and rear-end crashes (multiple vehicle interaction type crashes).

'		Young Drivers	Mature Drivers	Mature Drivers
Crash Type	All Drivers	(16-21)	(65-74)	(75+)
Non-Collision	3.3%	2.5%	1.1%	0.7%
	4,715 crashes	1,071 crashes	128 crashes	56 crashes
Rear-End	21.8%	22.9%	28.3%	22.5%
	30,734 crashes	9,969 crashes	3,289 crashes	1,941 crashes
Head-On	3.4%	4.0%	3.8%	3.8%
	4,845 crashes	1,747 crashes	444 crashes	326 crashes
Backing Up	0.3%	0.2%	0.4%	0.4%
	444 crashes	98 crashes	45 crashes	32 crashes
Angle	31.5%	34.4%	48.3%	54.6%
	44,399 crashes	15,002 crashes	5,602 crashes	4,699 crashes
Sideswipe	3.3%	3.0%	3.5%	2.5%
	4,648 crashes	1,290 crashes	402 crashes	217 crashes
Hit Fixed Object	30.7%	30.8%	11.3%	12.6%
	43,250 crashes	13,430 crashes	1,310 crashes	1,087 crashes
Hit Pedestrian	3.9%	1.4%	2.6%	2.5%
	5,533 crashes	611 crashes	298 crashes	216 crashes
Other	1.7%	0.8%	0.8%	0.5%
	2,404 crashes	345 crashes	90 crashes	39 crashes

Intersection vs. Non-Intersection Crashes of Young and Mature Drivers

In keeping with the data presented previously on single vehicle versus multiple vehicle crashes, mature drivers are more likely to be involved in crashes at intersections compared to other age groups. Intersections can be confusing and problematic for the mature driver, as numerous and complex movements are present.

î	All Drivers	Young Drivers (16-21)	Mature Drivers (65-74)	Mature Drivers (75+)
Intersection	42.6%	43.3%	55.9%	58.9%
	60,068 crashes	18,874 crashes	6,489 crashes	5,071 crashes
Non-Intersection	57.4%	56.7%	44.1%	41.1%
	80,904 crashes	24,689 crashes	5,119 crashes	3,542 crashes

Alcohol-Related Crashes

Alcohol Overview

- ▶ In Pennsylvania, drinking and driving remains a top safety issue. In 1998, alcohol-related crashes (13,835) decreased from 13,996 alcohol-related crashes in 1997 while alcohol-related deaths (535) increased from 514 alcohol-related deaths in 1997.
- ▶ Of particular concern is the involvement of drinking drivers under the age of 21. 1998 underage drinking drivers went down 1% since last year (but up 21% from 1996).
- ▶ Of equal focus is the 21 to 50 age group, in which over 44% of the driver deaths involved a drinking driver. The 41 to 45 and 46 to 50 age groups increased from 29% and 16% in 1997 to 46% and 44% respectively in 1998.
- ▶ In 1998, alcohol-related deaths were 36% of the total traffic deaths, the highest since 1994.
- ▶ Pennsylvania's aggressive posture to prevent and deter drinking and driving (particularly through the widespread use of sobriety checkpoints and saturation patrols) has had a significant impact on the DUI problem.

1998 Briefs

- ► 535 people died in alcohol-related crashes.
- ▶ 88% of the alcohol-related occupant deaths (drivers and passengers) were in the vehicle driven by the drinking driver; 78% were the drinking drivers themselves.
- ▶ 82% of the drinking drivers in traffic crashes were male.
- ▶ 79% of the alcohol-related crashes were during the hours of darkness, usually on weekends.
- ▶ On average each day, 38 alcohol-related traffic crashes occurred.
- ▶ On average each day, 1.5 persons were killed in alcohol-related traffic crashes.
- ▶ On average each day, 36 persons were injured in alcohol-related traffic crashes.

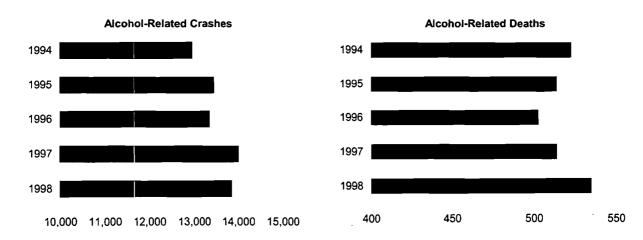
Alcohol Involvement in Crashes

Although alcohol-related crashes accounted for less than 10% of the total crashes in 1998, they resulted in 36% of all persons killed in crashes. Alcohol-related crashes were 5 times more likely to result in death than those not related to alcohol (3.5% of the alcohol-related crashes resulted in death, compared to 0.69% of crashes which were not alcohol-related). "PDO Crashes" in the table below refers to property damage only crashes.

	Fatal Crashes	Deaths	Injury Crashes	Injuries	PDO Crashes
Alcohol-Related	486 (35.8%)	535 (36.0%)	8,853 (10.0%)	13,156 (9.8%)	4,496 (8.8%)
Non-Alcohol-Related	872 (64.2%)	951 (64.0%)	79,438 (90.0%)	120,936 (90.2%)	46,827 (91.2%)
TOTAL	1,358 (100.0%)	1,486 (100.0%)	88,291 (100.0%)	134,092 (100.0%)	51,323 (100.0%)

Alcohol-Related Crashes—Five-Year Trends

Alcohol-related crashes decreased in 1998 while alcohol-related deaths were the highest in five years. Alcohol-related injuries decreased by 3%. "PDO Crashes" in the table below refers to property damage only crashes.



	1994	1995	1996	1997	1998
Crashes	12,944	13,440	13,343	13,996	13,835
Fatal Crashes	484	464	462	460	486
Injury Crashes	8,425	8,740	8,572	9,083	8,853
PDO Crashes	4,035	4,236	4,309	4,453	4,496
Deaths	523	514	503	514	535
Injuries	12,764	13,353	12,760	13,868	13,156
Fatal Crashes per 100,000					
Licensed Drivers	6.0	5.7	5.7	5.5	5.8
Deaths per 100,000					
Licensed Drivers	6.4	6.3	6.2	6.1	6.4

Victims of Alcohol-Related Fatal Crashes

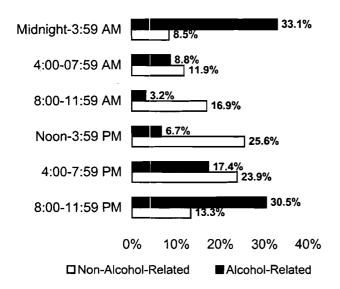
Of the 477 drivers and passenger deaths in alcohol-related crashes, 420 (88%) were drinking drivers or their passengers. The percentage of deaths of non-drinking people in these crashes decreased from 17% in 1997 to 15% in 1998.

Persons Involved	Deaths
Drivers	372
Drinking Drivers	336 (90.3%)
Non-Drinking Drivers	36 (9.7%)
Passengers	105
Passengers with Drinking Driver	84 (80.0%)
Passengers with Non-Drinking Driver	21 (20.0%)
Pedestrians	44
Drinking Pedestrian	22 (50.0%)
Non-Drinking Pedestrian	22 (50.0%)
TOTAL DEATHS*	535

^{*}Includes 14 victims, status unknown

Victims of Fatal Crashes by Time of Day

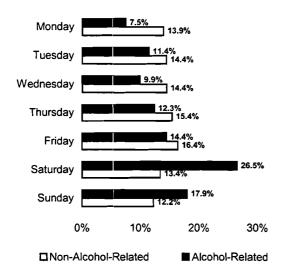
Alcohol-related crashes occurring between 8:00 PM and 4:00 AM produced the vast majority of deaths (64% of alcohol-related deaths). In contrast, half the deaths from non-alcohol-related crashes resulted from crashes occurring between noon and 8:00 PM.



	Non-	
	Alcohol-	Alcohol-
Time of Occurrence	Related	Related
Midnight-3:59 AM	81	177
4:00-07:59 AM	113	47
8:00-11:59 AM	161	17
Noon-3:59 PM	243	36
4:00-7:59 PM	227	93
8:00-11:59 PM	126	163
Time Unknown	0	2
TOTAL DEATHS	951	535

Victims of Fatal Crashes by Day of Week

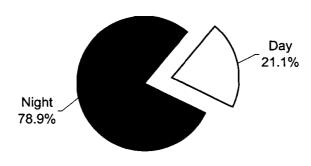
The majority (59%) of alcohol-related fatal crash victims were the result of crashes occurring on Friday, Saturday, and Sunday, while fatal crash victims of non-alcohol-related crashes tended to be distributed fairly evenly throughout the week.



	Non- Alcohol-	Alcohol-
Day of Occurrence	Related	Related
Monday	132	40
Tuesday	137	61
Wednesday	137	53
Thursday	146	66
Friday	156	77
Saturday	127	142
Sunday	116	96
TOTAL DEATHS	951	535

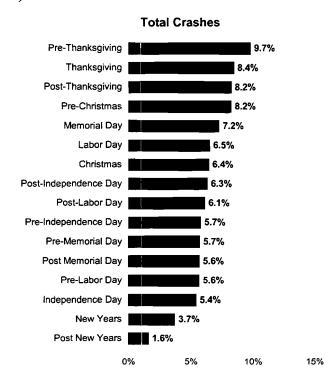
Alcohol-Related Crashes—Day vs. Night

More than three-quarters of alcohol-related crashes occur at night. The graph below shows the breakdown of alcohol-related crashes by day and night.

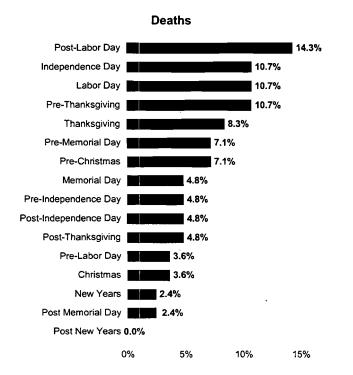


Alcohol-Related Holiday Crashes

In 1998, 14% of all holiday crashes involved alcohol use; however, 40% of deaths which occurred during holiday weekends were related to alcohol use. (See *Crashes by Holiday*, page 22.)



Period*	Crashes	Deaths
New Years**	92	2
Post New Years**	39	0
Pre-Memorial Day	142	6
Memorial Day	181	4
Post Memorial Day	141	2
Pre-Independence Day	144	4
Independence Day	135	9
Post-Independence Day	157	_ 4
Pre-Labor Day	141	3
Labor Day	162	9
Post-Labor Day	152	12
Pre-Thanksgiving	244	9
Thanksgiving	210	7
Post-Thanksgiving	205	4
Pre-Christmas	205	6
Christmas	160	3
TOTAL	2,510	84



- * See *Holidays* under **Definitions** for explanation of pre- and post-holiday weekends.
- ** Not part of a holiday weekend in 1998.

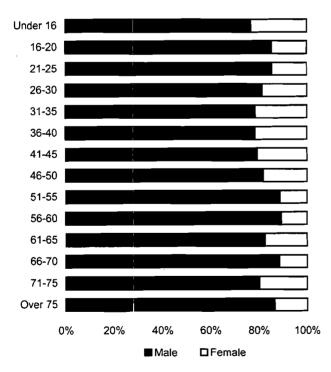
Driver Involvement in Alcohol-Related Crashes by Vehicle Type

Motorcycle crashes involved a large number of drinking drivers-more than twice the average for all vehicles. Drinking drivers of light trucks (which include pickups, vans, sport utility vehicles, etc.) were also above the average for drivers of all vehicle types.

	Passenger Car		163,464
	<u>_</u>		
	Light Truck		59,135
Total Drivers in Crashes	Heavy Truck		7,740
240,071	Motorcycle		2,681
	Bus		1,121
	Other		5,930
	Passenger Car	9,267	(5.7% of total)
	Light Truck	4,117	(7.0% of total)
Drinking Drivers in Crashes	Heavy Truck	49	(0.6% of total)
13,856 (5.8% of total)	Motorcycle	337	(12.6% of total)
	Bus	2	(0.2% of total)
	Other	84	(1.4% of total)

Drinking Drivers in Crashes by Age and Sex

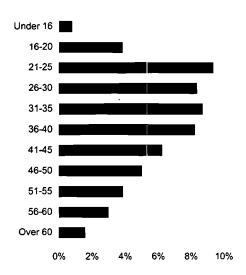
In 1998, roughly four out of five drinking drivers in crashes were male (across most age groups), with only slight variations among the age groups. The table below does not include an additional 158 drivers for whom age and/or sex were not known.



Age Group	Male	Female	Total
Under 16	10	3	13
16-20	1,311	225	1,536
21-25	2,325	398	2,723
26-30	1,747	394	2,141
31-35	1,654	451	2,105
36-40	1,522	418	1,940
41-45	1,008	262	1,270
46-50	671	149	820
51-55	425	54	479
56-60	236	28	264
61-65	132	28	160
66-70	99	13	112
71-75	- 61	15	76
Over 75	51_	8	59
Total	11,252	2,446	13,698

Drinking Drivers vs. Non-Drinking Drivers Involved in Crashes by Age Group

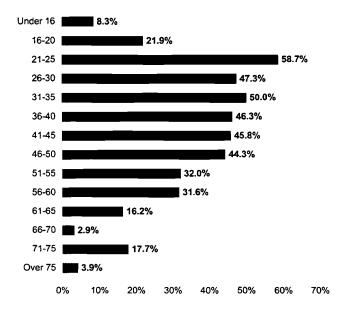
In 1998, as the table and graph below show, the four age groups from 21 to 40 had the highest percentage of drinking drivers within their respective age groups. After age 35, the percentage of drinking drivers within the succeeding age groups steadily declined. The under 21 age groups had smaller percentages, but still involved 1,549 underage drinking drivers.



Age Group	Drinking Driver	Non-Drinking Driver
Under 16	13 (0.7%)	1,786 (99.3%)
16-20	1,536 (3.8%)	39,142 (96.2%)
21-25	2,723 (9.3%)	26,647 (90.7%)
26-30	2,141 (8.3%)	23,742 (91.7%)
31-35	2,105 (8.6%)	22,262 (91.4%)
36-40	1,940 (8.2%)	21,782 (91.8%)
41-45	1,270 (6.2%)	19,271 (93.8%)
46-50	820 (4.9%)	15,845 (95.1%)
51-55	479 (3.8%)	12,065 (96.2%)
56-60	264 (3.0%)	8,687 (97.1%)
Over 60	407 (1.5%)	26,122 (98.5%)

Drinking Driver Deaths as a Percentage of Total Driver Deaths, by Age Group

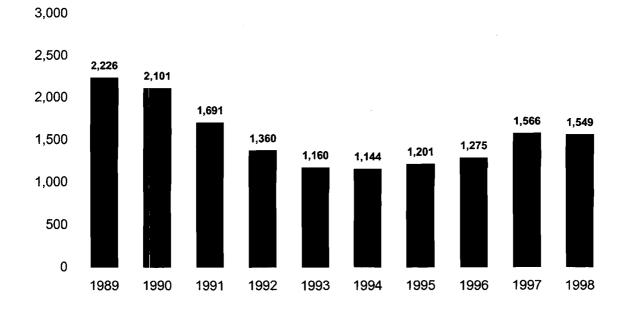
The graph below shows drinking driver deaths as a percentage of total driver deaths within each respective age group for 1998 crashes. The six age groups from 21 to 50 had the highest percentages, with over 44% of the driver deaths in these age groups involving a drinking driver.



Alcohol-Related

Underage Drinking Drivers in Pennsylvania Crashes—Historical Data

Act 31, commonly known as the "Underage Drinking Law," went into effect on May 24, 1988. From that year, and until 1994, the number of underage drinking drivers involved in Pennsylvania crashes has declined each year. Since then, 1998 is the first time there has been a decrease from the previous year.



Seat Belts, Child Safety Seats, and Air Bags

Restraints Overview

Safety Belts

- ▶ Pennsylvania's seat belt law requires drivers and front seat passengers to be properly buckled up when riding in a passenger car, Class 1 and Class 2 truck, or motor home.
- ▶ The combination of lap/shoulder seat belts, when used, reduces the risk of fatal injury to front seat passenger car occupants by 45% and the risk of moderate-to-critical injury by 50%. For light truck occupants, safety belts reduce the risk of fatal injury by 60% and moderate-to-critical injury by 65%.
- ► All passengers should wear a seat belt whenever riding in a motor vehicle—even for short distances. Three out of four crashes occur within 25 miles of home.
- If everyone would wear seat belts when riding in a motor vehicle, hundreds of lives in Pennsylvania alone would be saved (see page 36). Everyone should buckle up, every time!

Child Safety Seats

- ▶ Pennsylvania law requires children under the age of four to be properly restrained in a child passenger restraint system whenever riding anywhere in the vehicle.
- ► Research shows that child safety seats, when used correctly, are 71% effective in preventing fatalities, and 67% effective in preventing serious injury.
- When placing a child safety seat in a vehicle, follow the manufacturer's instructions for the vehicle and the child safety seat instructions exactly. There are different types of child safety seats—infant, convertible, and booster. Children under 1 year of age and 20 pounds should ride in a rear-facing position. Small children should ride in a child safety seat approved for their age and size.
- ► Children should ride in the rear seat whenever possible, and should always be properly buckled.

Air Bag Safety

- ► Air bags are supplemental protection devices. Everyone should still buckle up with both lap and shoulder belts on every trip.
- ► Child Safety
 - Children age 12 and under should ride buckled up in the back seat.
 - Infants in rear-facing child safety seats should *never* ride in the front seat of a vehicle equipped with a passenger-side air bag.
 - If an older child must ride in a front seat equipped with a passenger-side air bag, put the child in a front-facing seat or belt-positioning booster seat for the proper weight of the child, or use a correctly fitting lap/shoulder belt, and move the vehicle seat as far back as possible.

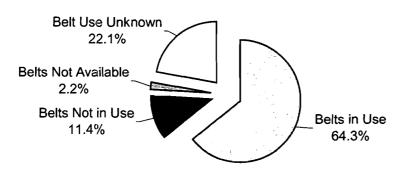
Adult Safety

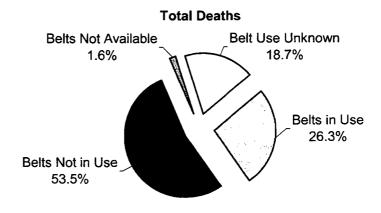
- Everyone should buckle up with both lap and shoulder belts on every trip.
- The lap belt should be worn under the abdomen and low across the hips. The shoulder portion should come over the collar bone away from the neck and cross over the breast bone.
- Driver and front passenger seats should be moved as far back as practical, particularly for shorter people.

Seat Belt Use in Crashes—Total People Involved

Seat belts have proven to be effective in reducing the severity of injuries sustained in a crash. In 1998, as shown in the two pie graphs below, 64.3% of all people involved in crashes were wearing seat belts. Over twice as many people not wearing seat belts died in crashes as those who did. The table at the bottom shows the total number of people involved in crashes in 1998 by severity of injury and belt use.

Total People Involved in Crashes





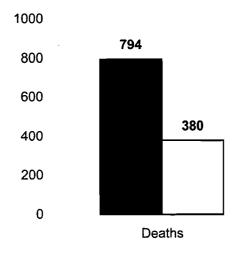
	Belts in Use	Belts Not in Use	Belts Not Available	Belt Use Unknown
Killed	306	622	18	217
Major Injury	1,475	1,541	140	913
Moderate Injury	10,612	5,823	619	4,647
Minor Injury	48,576	12,343	1,676	13,619
No Injury	148,124	16,437	4,502	47,078
Unknown Injury	7,910	1,799	515	8,095
TOTAL	217,003	38,565	7,470	74,569

Note: Vehicles involved include passenger cars, light trucks, and heavy trucks.

Seat Belt Use in Crashes—Impact on Deaths and Injuries

The table and graph below give estimates of the impact that 100% seat belt use would have on traffic deaths and injuries. The numbers in parentheses, in the last row of the table below, are the estimated decreases in 1998 deaths and injuries if 100% seat belt use was achieved. (Note: The data below is for passenger cars only.) The estimated economic savings of 100% belt use in 1998 would have been \$2,576,142,375 or approximately \$215 for every man, woman, and child in Pennsylvania. More importantly, 414 people would have survived if they had worn their belts.

1		Injuries			
	Deaths	Major	Moderate	Minor	None
No Belts	10	85	426	1,220	2,969
Belts Used	265	1,106	8,003	35,809	94,102
Belts Not Used	417	1,083	4,062	8,606	10,407
Use Unknown	102	433	2,039	5,434	15,023
TOTAL	794	2,707	14,530	51,069	122,501
If 100% Belt Use	380	1,579	11,174	49,170	129,298
Net Increase/(Decrease)	(414)	(1,128)	(3,356)	(1,899)	6,797



■Actual □ If 100% Belt Use

Note: PennDOT's cost estimating procedures were revised in 1998 dollars.

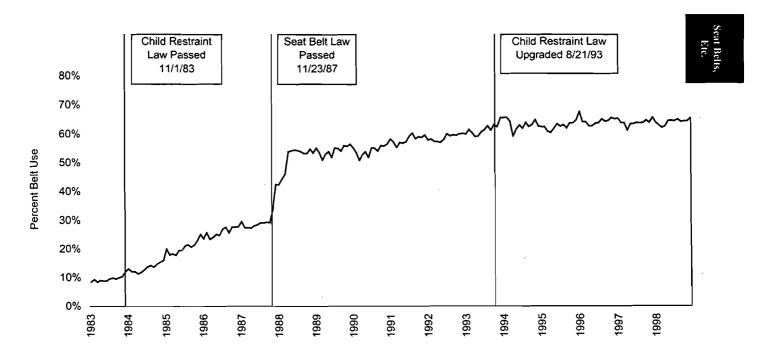
Seat Belt Use in Crashes—Historical Data

On November 1, 1983, Pennsylvania passed a primary law requiring drivers to secure children under age four in an approved child passenger restraint system when riding in a passenger car, Class I truck, Class II truck, classic motor vehicle, antique motor vehicle, or motor home registered in Pennsylvania. Children ages one to four could be in the back seat in a child safety belt in lieu of a child passenger restraint system. Fines took effect January 1, 1985.

On November 23, 1987, Pennsylvania passed a safety belt law. The law requires the driver and front seat passengers of a passenger car, Class I and Class II trucks, or motor home to wear a properly-adjusted and fastened safety belt. The driver is responsible for securing children ages four to eighteen in a safety belt when riding in the front seat. This is a secondary violation. Fines took effect March 23, 1988.

Effective August 21, 1993, the child passenger restraint law was upgraded to require all drivers (not just those with vehicles registered in Pennsylvania) to secure a child up to age four in a child passenger restraint system when sitting anywhere in the vehicle.

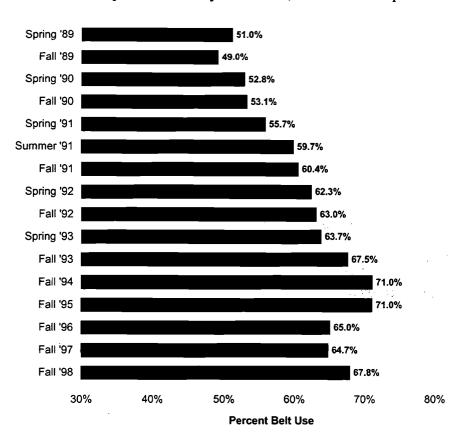
The graph below shows the percentage of seat belt users in Pennsylvania since 1983. A sharp upward trend was experienced in the year following the passage of the seat belt law. The trend slowly increased over the next several years, although it has flattened out over the past four years.



Note: Data shown for passenger cars only.

Seat Belt Observational Surveys—Historical Data

Observed seat belt use (the percent of front seat vehicle occupants wearing seat belts) is based upon a statewide statistical sampling of front seat occupants in passenger cars and light trucks. The observed seat belt use improved annually until 1996, when a 6% drop occurred.



Child Passenger Restraints in Crashes—Five Year Data

Since August 21, 1993, all drivers traveling in Pennsylvania have been required to secure children up to age four in a child passenger restraint system while sitting anywhere in the vehicle. As shown in the table below (for 1994-1998 crashes involving children up to age four), the percentages of deaths and injuries (within restraint type by row) were lower when restraints were used. In 1994-1998, 83.4% of the children who were involved in crashes and restrained in a child seat sustained no injury.

	t			Injuries			Total
Child Restraint	Deaths	Major	Moderate	Minor	Unknown	No Injury	Persons
Child Seat In Use	26 (0.1%)	78 (0.3%)	333 (1.1%)	3,130 (10.0%)	1,630 (5.2%)	26,080 (83.4%)	31,277
Child Seat Not In Use	4 (0.3%)	20 (1.4%)	40 (2.8%)	225 (15.9%)	173 (12.2%)	958 (67.5%)	1,420
Other Restraint In Use	13 (0.1%)	76 (0.6%)	267 (2.0%)	2,167 (16.1%)	508 (3.8%)	10,473 (77.6%)	13,504
Other Restraint Not In Use	37 (0.5%)	83 (1.2%)	276 (4.0%)	1,574 (22.8%)	842 (12.2%)	4,101 (59.3%)	6,913

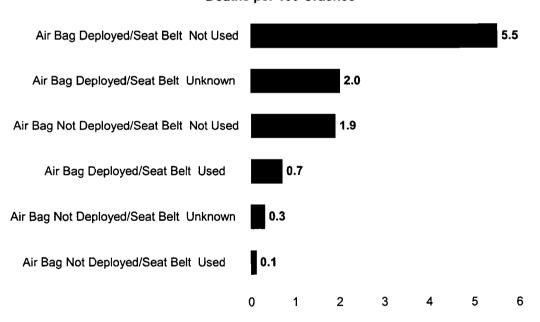
Seat Belts, Etc.

Air Bag Deployment in Crashes—Injuries and Deaths

Passive restraints, most notably air bags, are becoming more and more prevalent, but the majority of vehicles on the road still do not have air bags. The table and graph below show the safety benefits of wearing a seat belt, both with and without air bag deployment. (Table percentages are listed within restraint type by row.)

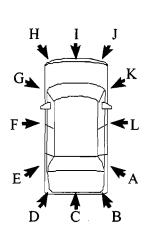
Passive Restaint	Seat Belt		Injuries					Total
Status	Status	Deaths	Major	Moderate	Minor	Unknown	No Injury	Persons
None	n/a	957 (0.5%)	3,162 (1.6%)	14,558 (7.5%)	47,083 (24.2%)	7,731 (4.0%)	120,887 (62.2%)	194,378
Air Bag Deployed	Used	78 (0.4%)	351 (1.8%)	2,126 (10.6%)	7,624 (38.1%)	946 (4.7%)	8,896 (44.4%)	20,021
Air Bag Deployed	Not Used	111 (3.5%)	186 (5.8%)	675 (21.0%)	1,204 (37.5%)	150 (4.7%)	885 (27.6%)	3,211
Air Bag Deployed	Unknown	32 (1.3%)	87 (3.5%)	366 (14.8%)	767 (30.9%)	274 (11.0%)	956 (38.5%)	2,482
Air Bag Not Deployed	Used	20 (0.1%)	117 (0.3%)	1,255 (3.4%)	7,476 (20.2%)	1,244 (3.4%)	26,871 (72.7%)	36,983
Air Bag Not Deployed	Not Used	30 (1.0%)	79 (2.7%)	283 (9.5%)	896 (30.0%)	131 (4.4%)	1,567 (52.5%)	2,986
Air Bag Not Deployed	Unknown	4 (0.1%)	24 (0.8%)	193 (6.1%)	628 (20.0%)	224 (7.1%)	2,073 (65.9%)	3,146
Other	n/a	48 (0.2%)	232 (0.7%)	1,847 (5.7%)	6,588 (20.2%)	2,262 (7.0%)	21,584 (66.3%)	32,561

Deaths per 100 Crashes



Air Bag Deployment by Initial Vehicle Impact Point

Air bags are designed to deploy in frontal impacts. The table below shows the initial vehicle impact points for all 1998 crashes. It is probable that a vehicle which is initially impacted in the rear may be pushed into the vehicle in front (secondary impact), thus deploying the air bag (such as the 688 occasions in which air bags deployed in center rear impacts).



		Air Bag	Air Bag	Air Bag	
		Not	Present	Present, Not	Unknown/
Impact Point	Vehicles	Present	Deployed	Deployed	Other
Right Side Rear (A)	3,000	1,653	125 (17.5%)	590 (82.5%)	632
Right Rear (B)	6,297	3,471	164 (11.5%)	1,260 (88.5%)	1,402
Center Rear (C)	34,547	17,585	688 (7.7%)	8,269 (92.3%)	8,005
Left Rear (D)	5,941	3,249	163 (12.2%)	1,179 (87.9%)	1,350
Left Side Rear (E)	3,138	1,731	115 (15.5%)	629 (84.5%)	663
Left Side Center (F)	8,864	5,168	362 (20.2%)	1,431 (79.8%)	1,903
Left Side Forward (G)	7,772	4,095	533 (27.6%)	1,398 (72.4%)	1,746
Left Front (H)	34,481	18,610	4,097 (44.7%)	5,060 (55.3%)	6,714
Center Front (I)	74,216	38,416	11,516 (57.6%)	8,485 (42.4%)	15,799
Right Front (J)	34,782	18,425	3,997 (45.9%)	4,713 (54.1%)	7,647
Right Side Forward (K)	7,611	4,046	527 (29.7%)	1,250 (70.3%)	1,788
Right Side Center (L)	8,655	4,898	427 (23.9%)	1,358 (76.1%)	1,972
Other	9,007	4,409	452 (32.4%)	943 (67.6%)	3,203
None	1,760	1,428	9 (7.3%)	114 (92.7%)	209
TOTAL	240,071	127,184	23,175 (38.7%)	36,679 (61.3%)	53,033

Air Bag Deployment by Age Group

While air bags are an important safety feature, they must be used with a seat belt for maximum effectiveness. Air bag deployment without seat belts can be dangerous. As the table below shows (from a percentage perspective), people using seat belts were less likely to suffer moderate and major injuries, and even death, during crashes involving air bag deployment. (Percentages listed in the table are by age group.)

					Injuries			Total
	Age Group	Deaths	Major	Moderate	Minor	Unknown	No Injury	Persons
	0-4	0 (0.0%)	0 (0.0%)	2 (9.1%)	6 (27.3%)	2 (9.1%)	12 (54.6%)	22
Seat	5-8	2 (2.6%)	1 (1.3%)	9 (11.8%)	28 (36.8%)	2 (2.6%)	34 (44.7%)	76
Belts	9-12	0 (0.0%)	2 (1.2%)	15 (9.2%)	79 (48.5%)	9 (5.5%)	58 (35.6%)	163
Used	13-64	49 (0.3%)	288 (1.7%)	1,764 (10.1%)	6,610 (37.8%)	797 (4.6%)	7,999 (45.7%)	17,507
	65-74	10 (0.8%)	37 (2.8%)	198 (14.9%)	510 (38.4%)	78 (5.9%)	495 (37.3%)	1,328
	75+	17 (1.8%)	23 (2.5%)	138 (14.9%)	391 (42.3%)	58 (6.3%)	298 (32.2%)	925
	Total	78 (0.4%)	351 (1.8%)	2,126 (10.6%)	7,624 (38.1%)	946 (4.7%)	8,896 (44.4%)	20,021
	0-4	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	1 (100.0%)	
Seat	5-8	1 (11.1%)	0 (0.0%)	2 (22.2%)	3 (33.3%)	0 (0.0%)	3 (33.3%)	9
Belts	9-12	1 (6.7%)	1 (6.7%)	0 (0.0%)	7 (46.7%)	0 (0.0%)	6 (40.0%)	15
Not	13-64	96 (3.3%)	171 (5.8%)	610 (20.7%)	1,108 (37.6%)	137 (4.6%)	829 (28.1%)	2,951
Used	65-74	5 (3.9%)	7 (5.4%)	34 (26.2%)	49 (37.7%)	8 (6.2%)	27 (20.8%)	130
	75+	8 (7.6%)	7 (6.7%)	29 (27.6%)	37 (35.2%)	5 (4.8%)	19 (18.1%)	105
	Total	111 (3.5%)	186 (5.8%)	675 (21.0%)	1,204 (37.5%)	150 (4.7%)	885 (27.6%)	3,211

Peds & Bikes

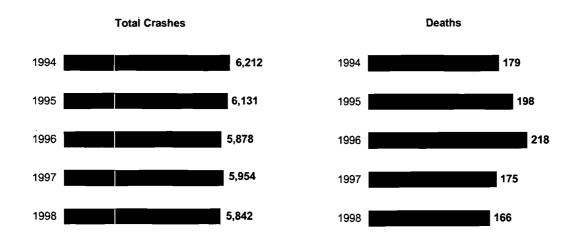
Pedestrian and Bicycle Crashes

Pedestrian and Bicycles Overview

- ▶ Pedestrian-related crashes represent 4.1% of the total reported traffic crashes; however, they account for 11.2% of all traffic crash deaths. (See also *Pennsylvania County Crashes*, pages 62, 63, and 68.)
- ▶ Bicycle crashes represent 2.0% of the total reported crashes and 1.5% of all traffic deaths. Although these percentages are small, they still represent 23 bicyclist deaths and 2,768 injuries in 1998.

Pedestrian Crashes—Five-Year Trends

The percent of reported crashes involving pedestrians decreased from 4.6% in 1994 to 4.1% in 1998. Pedestrian deaths have decreased this year, and in 1998 represented 11.2% of the total traffic deaths.

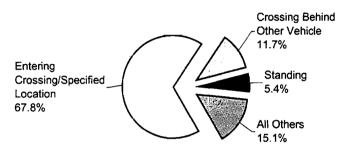


Year	Total Crashes	Deaths
1994	6,212	179
1995	6,131	198
1996	5,878	218
1997	5,954	175
1998	5,842_	166

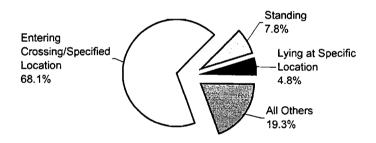
Pedestrian-Related Crashes

Referring to the table and pie charts below, most pedestrian crashes and deaths occur while pedestrians are "entering crossing/specified location." This means that a pedestrian was most likely crossing the street at either an intersection, mid-block crossing, or driveway entrance. "Other Vehicle," as used below under Pedestrian Actions, refers to vehicles other than school buses.

Top Crash-Related Pedestrian Actions



Top Fatal Pedestrian Actions

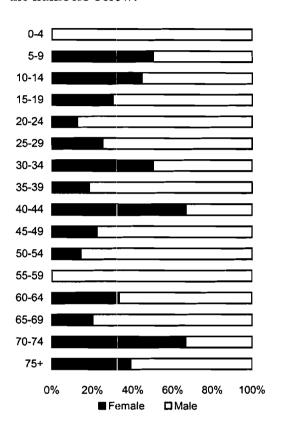


Pedestrian Action	Deaths	Total Pedestrians Involved
Entering Crossing/Specified Location	113	4,153
Crossing Behind School Bus	0	8
Crossing Behind Other Vehicle	7	719
Walking With Traffic	4	138
Walking Against Traffic	4	58
Leaving/Returning to Disabled Vehicle	0	5
Approaching/Leaving School Bus	0	12
Playing/Working on Vehicle	0	56
Other Working	3	85
Standing	13	328
Playing	1	67
Lying at Specific Location	8	18
Approaching/Leaving Other Vehicle	3	157
Other/Unknown	10	321
TOTAL	166	6,125

Peds & Bikes

Pedestrian Deaths by Age and Sex

There is a sharp increase in deaths for pedestrians aged 75 and over. Overall, male pedestrian deaths were 66% of all pedestrian deaths. *Note:* Pedestrians of unknown sex are not included in the numbers below.



Age Group	Female	Male	Total
0-4	0	5	5
5-9	3	3	6
10-14	4	5	9
15-19	3	7	10
20-24	1	7	8
25-29	2	6	8
30-34	4	4	. 8
35-39	2	9	11
40-44	4	2	- 6
45-49	2	7	9
50-54	2	12	14
55-59	0	4	4
60-64	2	4	- 6
65-69	1	4	5
70-74	10	5	15
75 and over	16	25	41
Unknown	0	1	1
TOTAL	56	110	166

Pedestrian Injury Severity by Municipality Type

The majority of pedestrians are injured in cities; however, there is a much higher percentage of pedestrian deaths in Townships, perhaps due to higher vehicle speeds on rural roads.

Municipality Type	Deaths	Injuries	Non-Injury	Total
City	48 (28.9%)	3,922 (66.5%)	32 (50.0%)	4,002 (65.3%)
Borough/Town	32 (19.3%)	889 (15.1%)	14 (21.9%)	935 (15.3%)
Township	86 (51.8%)	1,080 (18.3%)	18 (28.1%)	1,184 (19.3%)
Other	0 (0.0%)	4 (0.1%)	0 (0.0%)	4 (0.1%)
TOTAL	166 (100.0%)	5,895 (100.0%)	64 (100.0%)	6,125 (100.0%)

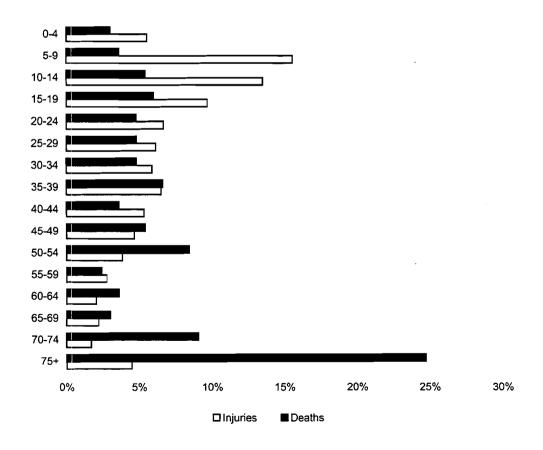
Note: "Other" includes colleges/universities, parks, etc.

Pedestrian Deaths and Injuries by Age

Elderly pedestrians, although involved in fewer pedestrian crashes, are more likely to be killed if struck by a moving vehicle. Younger pedestrians (age 19 and under) account for almost half of the pedestrian injuries.

Note: The totals in the table do not include an additional 64 pedestrians who were not killed or injured.

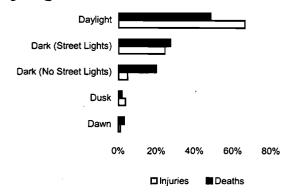
Pedestrian Age	Deaths	Injuries
0-4	5 (3.0%)	327 (5.6%)
5-9	6 (3.6%)	917 (15.6%)
10-14	9 (5.4%)	797 (13.5%)
15-19	10 (6.0%)	571 (9.7%)
20-24	8 (4.8%)	395 (6.7%)
25-29	8 (4.8%)	364 (6.2%)
30-34	8 (4.8%)	347 (5.9%)
35-39	11 (6.6%)	385 (6.5%)
40-44	6 (3.6%)	315 (5.3%)
45-49	9 (5.4%)	276 (4.7%)
50-54	14 (8.4%)	227 (3.9%)
55-59	4 (2.4%)	164 (2.8%)
60-64	6 (3.6%)	121 (2.1%)
65-69	5 (3.0%)	130 (2.2%)
70-74	15 (9.0%)	100 (1.7%)
75 and over	41 (24.7%)	264 (4.5%)
Unknown	1 (0.6%)	195 (3.3%)
TOTAL	166 (100.0%)	5,895 (100.0%)



Peds & Bikes

Pedestrian Deaths and Injuries by Light Level

The majority of pedestrians are injured in the daytime, but most pedestrian deaths occur during non-daylight hours. As shown in the bar chart, pedestrians are more likely to be killed if struck in a non-daylight crash as compared to a day crash.

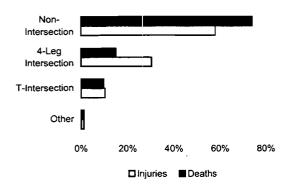


Light Level	Deaths	Injuries
Dawn	5 (3.0%)	58 (1.0%)
Daylight	80 (48.2%)	3,890 (66.0%)
Dark (Street Lights)	45 (27.1%)	1,432 (24.3%)
Dark (No Street Lights)	33 (19.9%)	273 (4.6%)
Dusk	3 (1.8%)	217 (3.7%)
Unknown	0 (0.0%)	25 (0.4%)
TOTAL	166 (100.0%)	5,895 (100.0%)

Note: The totals in the table do not include an additional 64 pedestrians who were not killed or injured.

Pedestrian Deaths and Injuries by Intersection Type

More than two-thirds of pedestrian deaths and over half of pedestrian injuries occurred in areas other than intersections. "Non-intersections" as used below includes mid-block crossings, driveway crossings, etc.

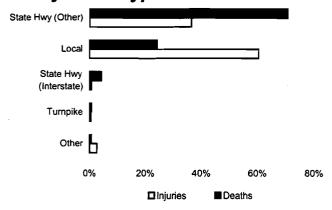


Intersection	Deaths	Injuries
Non-Intersection	123 (74.1%)	3,423 (58.1%)
4-Leg Intersection	25 (15.1%)	1,793 (30.4%)
T-Intersection	16 (9.6%)	608 (10.3%)
Other	2 (1.2%)	71 (1.2%)
TOTAL	166 (100.0%)	5,895 (100.0%)

Note: The totals in the table do not include an additional 64 pedestrians who were not killed or injured.

Pedestrian Deaths and Injuries by Road Type

As the graph shows, the majority of pedestrians are injured on local roads, whereas the majority of pedestrian deaths occur on state highways.

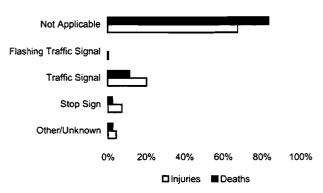


Note: "Road Type" relates to the road on which the motor vehicle was traveling immediately prior to striking the pedestrian. The totals in the table do not include an additional 64 pedestrians who were not killed or injured.

Road Type	Deaths	Injuries
State Hwy (Other)	117 (70.5%)	2,139 (36.3%)
Local	40 (24.1%)	3,548 (60.2%)
State Hwy (Interstate)	7 (4.2%)	34 (0.6%)
Turnpike	1 (0.6%)	20 (0.3%)
Other	1 (0.6%)	154 (2.6%)
TOTAL	166 (100.0%)	5,895 (100.0%)

Pedestrian Deaths and Injuries by Traffic Control Device

As the graph shows, most pedestrian deaths and injuries occurred in areas without traffic control devices (TCDs). However, notice the large number of pedestrians injured at traffic signal intersections.



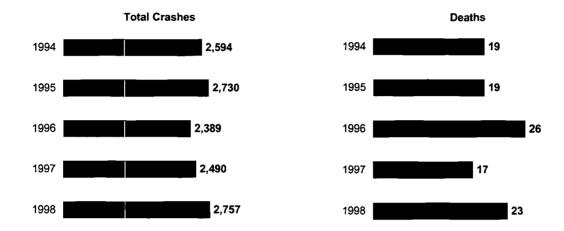
Note: "Traffic Control Device" relates to the TCD which was present for the motor vehicle immediately prior to striking the pedestrian. The totals in the table do not include an additional 64 pedestrians who were not killed or injured.

Traffic Control Device	Deaths	Injuries
Not Applicable	139 (83.7%)	3,991 (67.7%)
Flashing Traffic Signal	0 (0.0%)	22 (0.4%)
Traffic Signal	19 (11.5%)	1,193 (20.2%)
Stop Sign	4 (2.4%)	441 (7.5%)
Other/Unknown	4 (2.4%)	248 (4.2%)
TOTAL	166 (100.0%)	5,895 (100.0%)

Bicycle Crashes—Five-Year Trends

The total number of bicycle crashes and deaths in 1998 increased 11% and 35% respectively from 1997.

Year	Total Crashes	Deaths
1994	2,594	19
1995	2,730	19
1996	2,389	26
1997	2,490	17
1998	2,757	23



Bicycle Deaths and Injuries by Age

Children age 5 to 14 are the most vulnerable to death and injury while riding a bicycle. Over a third of the deaths and injuries involving bicycles were suffered by this age group. Another vulnerable, but larger group, was persons age 15 to 44, who also suffered over a third of the total deaths and total injuries.

Victim's Age	Deaths	Injuries
0-4	0 (0.0%)	18 (0.7%)
5-9	1 (4.4%)	486 (17.6%)
10-14	8 (34.8%)	843 (30.5%)
15-19	3 (13.0%)	397 (14.3%)
20-34	5 (21.7%)	536 (19.4%)
35-44	2 (8.7%)	271 (9.8%)
45-54	3 (13.0%)	92 (3.3%)
55-64	1 (4.4%)	32 (1.2%)
65-74	0 (0.0%)	18 (0.7%)
75+	0 (0.0%)	5 (0.2%)
Unknown	0 (0.0%)	70 (2.5%)
TOTAL	23 (100.0%)	2,768 (100.0%)

The totals in the table do not include an additional 47 bicyclists who were not killed or injured.

Bicycle Deaths and Injuries by Light Level

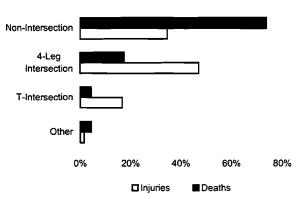
The majority of bicyclists are killed or injured during the day. The after dark deaths increased from 2 in 1997 to 9 in 1998.

Light Level	Deaths	Injuries		
Dawn	0 (0.0%)	22 (0.8%)		
Daylight	14 (60.9%)	2,129 (76.9%)		
Dark (Street Lights)	4 (17.4%)	440 (15.9%)		
Dark (No Street Lights)	5 (21.7%)	49 (1.8%)		
Dusk	0 (0.0%)	120 (4.3%)		
Unknown	0 (0.0%)	8 (0.3%)		
TOTAL	23 (100.0%)	2,768 (100.0%)		

Note: The totals in the table do not include an additional 47 bicyclists who were not killed or injured.

Bicycle Deaths and Injuries by Intersection

The majority of bicyclists are injured at intersections, while deaths occur more often in non-intersection crashes.



Intersection	Deaths	Injuries
Non-Intersection	17 (73.9%)	958 (34.6%)
4-Leg Intersection	4 (17.4%)	1,303 (47.1%)
T-Intersection	1 (4.4%)	465 (16.8%)
Other	1 (4.4%)	42 (1.5%)
TOTAL	23 (100.0%)	2,768 (100.0%)

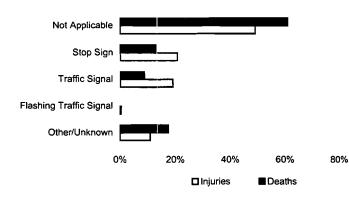
Note: The totals in the table do not include an additional 47 bicyclists who were not killed or injured.

Peds & Bikes

Bicycle Deaths and Injuries by Traffic Control Device

Deaths were much more likely to occur where there were no traffic control devices (TCD).

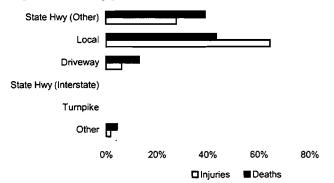
Traffic Control Device	Deaths	Injuries
Not Applicable	14 (60.9%)	1,358 (49.1%)
Stop Sign	3 (13.0%)	575 (20.8%)
Traffic Signal	2 (8.7%)	529 (19.1%)
Flashing Traffic Signal	0 (0.0%)	8 (0.3%)
Other/Unknown	4 (17.4%)	298 (10.8%)
TOTAL	23 (100.0%)	2,768 (100.0%)



Note: "Traffic Control Device" relates to the TCD that was present for the bike immediately prior to the crash. The totals in the table do not include an additional 47 bicyclists who were not killed or injured.

Bicycle Deaths and Injuries by Road Type

Almost half the deaths and well over half the injuries involving bicycles occurred on local roads. Note the deaths and injuries involving driveways.



Note: "Road Type" relates to the road on which the bicyclist was traveling immediately prior to the crash. The totals in the table do not include an additional 47 bicyclists who were not killed or injured.

Road Type	Deaths	Injuries
State Hwy (Other)	9 (39.1%)	768 (27.8%)
Local	10 (43.5%)	1,782 (64.4%)
Driveway	3 (13.0%)	169 (6.1%)
State Hwy (Interstate)	0 (0.0%)	0 (0.0%)
Turnpike	0 (0.0%)	0 (0.0%)
Other	1 (4.4%)	49 (1.8%)
TOTAL	23 (100.0%)	2,768 (100.0%)

Crashes b Vehiele

Crashes by Motor Vehicle Type

Vehicle Crashes by Vehicle Types

	Fatal Crashes	Injury Crashes	PDO Crashes	Total Crashes
Passenger Car	70.9%	82.5%	80.4%	81.6%
	963 crashes	72,876 crashes	41,243 crashes	115,082 crashes
Light Truck	37.7%	36.1%	38.3%	36.9%
	512 crashes	31,896 crashes	19,653 crashes	52,061 crashes
Heavy Truck	12.7%	4.6%	6.0%	5.2%
	172 crashes	4,067 crashes	3,060 crashes	7,299 crashes
Bicycle	1.7%	3.1%	0.0%	2.0%
	23 crashes	2,727 crashes	7 crashes	2,757 crashes
Motorcycle	7.9%	2.7%	0.3%	1.9%
	107 crashes	2,380 crashes	141 crashes	2,628 crashes
School Bus	0.5%	0.4%	0.3%	0.4%
	7 crashes	330 crashes	158 crashes	495 crashes
Commercial Bus	0.4%	0.6%	0.2%	0.4%
	6 crashes	510 crashes	103 crashes	619 crashes
Other	1.7%	2.8%	1.2%	2.2%
	23 crashes	2,510 crashes	605 crashes	3,138 crashes

Percentages compare the number of crashes with the total number of crashes in the crash severity category (for example, passenger cars were involved in 70.9% of all fatal crashes). Percentage totals exceed 100% due to multiple vehicle crashes.

Vehicle Crashes—Single Vehicle Hitting Fixed Objects

		Passenger Car	29,873	70.8%
		Light Truck	10,564	25.0%
Crashes in Which a Single		Heavy Truck	950	2.3%
Vehicle Hit a Fixed Object:	42,220	Motorcycle	532	1.3%
		School Bus	17	0.0%
		Commercial Bus	23	0.1%
		Other	261	0.6%

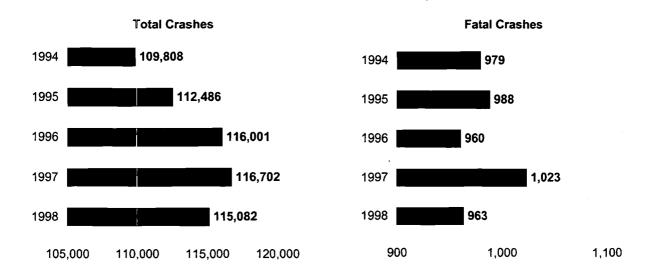
Vehicle Crashes—Two-Vehicle Collisions

	Vehicle Struck								
Striking Vehicle	Passenger Car	Light Truck			·	School Bus			
Passenger Car	34,976	1,591	12,975	286	1,181	166	142	357	51,674
Light Truck	11,712	618	4,527	99	315	76	69	90	17,506
Heavy Truck	1,601	299	533	7	12	10	6	13	2,481
Motorcycle	528	24	199	38	12	2	2	8	813
Bicycle	714	11	230	3	0	0	11	20	989
School Bus	94	7	31	0	3	3) o	1	139
Commercial Bus	139	4	28	1	14	2	5	4	197
Other/Unknown	927	13	155	19	187	0	13	31	1,345

Crashes by Vehicle

Passenger Car Crashes—Five-Year Trends

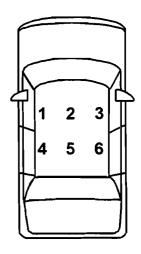
Total passenger car crashes have decreased in 1998, and fatal crashes in 1998 were the second lowest in five years.



Passenger Car Deaths by Seating Position

In 1998, 58% of crash deaths involved passenger car occupants. The table below depicts the passenger car deaths in 1998, by seating position, excluding any pedestrians involved.

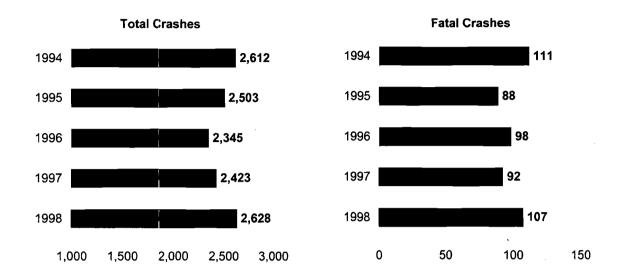
	Drivers 628 (72.3%)		1	→
		Center Front 0 (0.0%)	2	\
		Right Front 169 (19.5%)	3	\
Total Deaths 869	Total Passengers 226 (26.0%)	Left Rear 20 (2.3%)	4	\
	-	Center Rear 8 (0.9%)	5	→
	-	Right Rear 29 (3.3%)	6	→
	Others 15 (1.7%)			



"Others" might be passengers in the rearmost seat of a station wagon; persons in a towed unit; or any person on or attached to the outside of the car.

Motorcycle Crashes—Five-Year Trends

In 1998, total motorcycle crashes were the highest in five years, and fatal crashes increased 16% from 1997.



Year Deaths 1994 112 1995 85 1996 98 1997 92 1998 111 TOTAL 498

Motorcycle Deaths—Five-Year Trends

Of the 111 deaths in 1998 involving motorcycle drivers or passengers:

- ► 100 (90.1%) were drivers
- ▶ 11 (9.9%) were passengers

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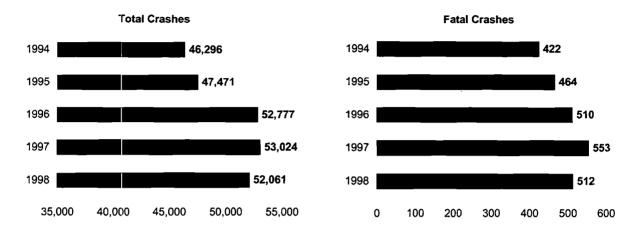
Motorcycle Helmet Use in Crashes

The table below shows injury severities of motorcycle riders (driver or passenger) by helmet usage.

	Deaths	Injuries	Not Injured	Total Motorcyclists
Helmets	84 (75.7%)	1,720 (65.5%)	171 (58.8%)	1,975 (65.2%)
No Helmets	19 (17.1%)	474 (18.1%)	48 (16.5%)	541 (17.9%)
Unknown	8 (7.2%)	432 (16.5%)	72 (24.7%)	512 (16.9%)
TOTAL	111 (100.0%)	2,626 (100.0%)	291 (100.0%)	3,028 (100.0%)

Light Truck Crashes—Five-Year Trends

As pickups, minivans, and sport utility vehicles have become more popular over the last several years, crashes involving these types of vehicles have also risen. Total crashes in 1998 were 12% higher than in 1994; fatal crashes were 21% higher than in 1994.



Light Truck Rollovers Compared to Passenger Cars

▶ The percentage of 1998 light truck crashes was much higher than passenger cars in crashes

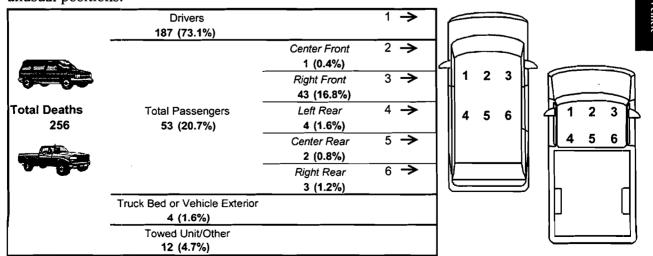
involving rollovers (7.6% of all light truck crashes compared to 4.9% of all passenger car crashes).

	Rollover	Rollover
	Crashes	Deaths
Light Trucks	3,973 (7.6%)	111 (43.4%)
Passenger Cars	5,660 (4.9%)	167 (19.2%)

In 1998 rollover crashes, the percentage of light truck deaths was more than twice as high as passenger car deaths (43.4% of deaths compared to 19.2%, excluding any pedestrians).

Light Truck Deaths by Seating Position

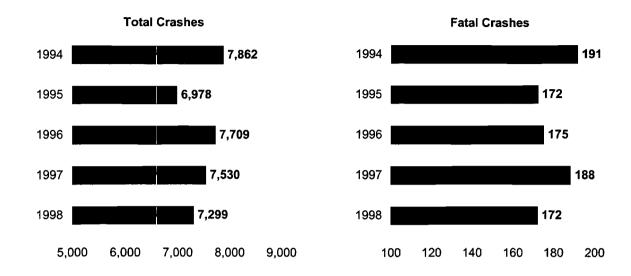
In 1998, 17% of crash deaths involved occupants in light trucks (jeeps, pickups, vans, sport utility vehicles, etc.). The table below depicts light truck deaths in 1998 by seating position, excluding any pedestrians involved, but including others who were riding on the vehicles in unusual positions.



Crashes b Vehicle

Heavy Truck Crashes—Five Year Trends

Fatal crashes involving heavy trucks in 1998 were the lowest in the last five years.



Heavy Truck Crashes Involving Vehicle Defects

The vast majority of heavy truck crashes involving vehicle defects as primary contributing factors were related to tires and wheels, brakes, and engine failures. *Note:* 1998 data uses primary contributing factors.

Vehicle Defect	Crashes
Tire/Wheel-Related	124
Brake-Related	59
Engine Failure	59
Total Steering System Failure	13
Suspension	9
Transmission Problem	6 3
Vehicle Lighting-Related	3
Dirty/Frosty Windshield	1
Exhaust System Failure	1
Defective Defrosting	0
Defective Wipers	0

Heavy Truck Crashes by Road Type

Road Type	Crashes	Occupant Deaths
State Hwy (Interstate)	1,411 (19.3%)	13 (34.2%)
State Hwy (Other)	4,296 (58.9%)	15 (39.5%)
Turnpike	402 (5.5%)	4 (10.5%)
Local Road	984 (13.5%)	3 (7.9%)
Ramp	206 (2.8%)	3 (7.9%)
TOTAL	7,299 (100.0%)	38 (100.0%)

Note: State highway (other) includes state-maintained roads that are not designated as interstates.

Hazardous Material Crashes by Road Type

Road Type	Crashes	HazMat Released
State Hwy (Interstate)	48 (20.7%)	11 (18.6%)
State Hwy (Other)	149 (64.2%)	42 (71.2%)
Turnpike	6 (2.6%)	1 (1.7%)
Local Road	20 (8.6%)	2 (3.4%)
Ramp	9 (3.9%)	3 (5.1%)
TOTAL	232 (100.0%)	59 (100.0%)

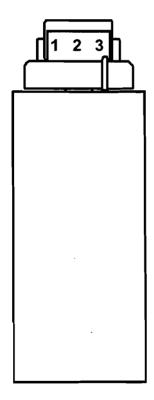
Note: State highway (other) includes state-maintained roads that are not designated as interstates.

Heavy Truck Deaths by Seating Position

In 1998, 3% of crash deaths involved heavy truck occupants. The table below depicts the heavy truck deaths in 1998 by seating position, excluding any pedestrians involved.

	Drivers 30 (79.0%)		1	→
Total Deaths	Total Passengers	Center Front 0 (0.0%)	2	→
38	1 (2.6%)	Right Front 1 (2.6%)	3	→
	Others 7 (18.4%)			

"Others" might be persons in the sleeping compartment; persons in the cargo trailer; or someone on, or attached to, the outside of the truck.



Crashes by Vehicle

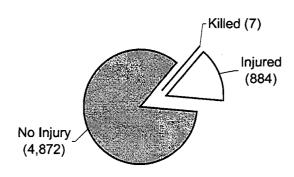
School Bus Crashes

Of the more than 5,000 persons involved in school bus crashes in 1998, only 7 were killed. Over 80% suffered no injury at all. See the tables at the bottom of page 57 for a breakdown of the persons involved. As shown, most are not the school bus passengers.

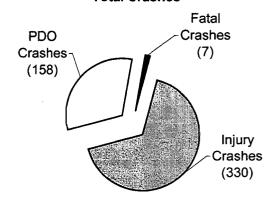
Total persons involved: 5,756

The majority (67%) of school bus crashes in 1998 were injury crashes. However, as the pie chart above shows, most persons involved in school bus crashes suffer no injuries at all.

Persons Involved



Total Crashes



School Bus Crashes by Road Type

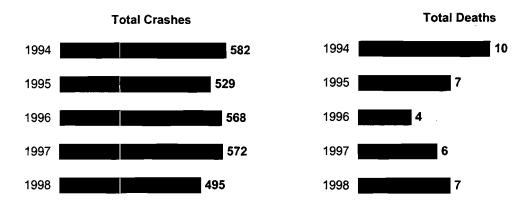
Road Type	Cras	shes
State Hwy (Interstate)	1	0.2%
State Hwy (Other)	317	64.0%
Turnpike	1	0.2%
Local Road	176	35.6%
Ramp	0	0.0%
TOTAL	495	100.0%

Note: State highway (other) includes state-maintained roads that are not designated as interstates.

Crashes by Vehicle

School Bus Crashes—Five-Year Trends

The total number of school bus crashes has fluctuated over the past five years, as have injury and property damage only (PDO) crashes. School bus related deaths are 0.5% of total fatalities in 1998. Most of the persons killed were not school bus passengers at the time of the crash.



		Crash S	Severity			
Year	Fatal	Injury	PDO	Total	Deaths	Injuries
1994	7	383	192	582	10	1,113
1995	7	344	178	529	7	992
1996	4	374	190	568	4	1,212
1997	5	363	204	572	6	1,020
1998	7	330	158	495	7	884
TOTAL	30	1,794	922	2,746	34	5,221

School Bus Deaths/Injuries by Persons Involved—Five-Year Trends

The tables below show the breakdown of persons killed and injured in school bus crashes. Most of the persons who were killed or injured in these crashes were not school bus passengers.

DEATHS	1				Driver/		
Year	School Bus Drivers	School Bus Passengers	School-Age Pedestrians	Other Pedestrians	Passenger of Other Vehicle	Other/ Unknown	Total Deaths
1994	0	0	0	1	8	1	10
1995	0	0	1	1	5	0	7
1996	0	0	3	0	1	0	4
1997	0	0	0	1	5	0	6
1998	1	0	0	0	5	1	7
TOTAL	1	0	4	3	24	2	34

INJURIES	h I				Driver/		
Year	School Bus Drivers	School Bus Passengers	School-Age Pedestrians	Other Pedestrians	Passenger of Other Vehicle	Other/ Unknown	Total Injuries
1994	86	650	12	4	354	10	1,116
1995	58	624	8	7	289	5	991
1996	72	782	12	7	322	17	1,212
1997	80	635	4	9	287	5	1,020
1998	73	493	8	9	295	6	884
TOTAL	369	3,184	44	36	1,547	43	5,223

Counties

Pennsylvania County Crashes

County Overview

The Commonwealth of Pennsylvania is comprised of 67 counties. Each county is made up of local municipalities, a combination of cities, boroughs, first class townships, and/or second class townships. In total, there are approximately 2,500 municipalities throughout the 67 counties. In 1998, Pennsylvania's total population was 12,001,451 people.

The ten most populated counties were:

 Philadelphia (12.0%)
 Allegheny (10.6%)
 Montgomery (6.0%)

 Bucks (4.9%)
 Delaware (4.5%)
 Lancaster (3.8%)

 Chester (3.5%)
 Westmoreland (3.1%)
 York (3.1%)

Berks (3.0%) See page 59.

The ten least populated counties were:

Forest (0.04%) Cameron (0.05%) Sullivan (0.05%)
Fulton (0.12%) Potter (0.14%) Montour (0.15%)
Juniata (0.18%) Wyoming (0.24%) Elk (0.29%)

Clinton (0.31%) See page 59.

The ten counties with the most miles of state highways (maintained by PennDOT) were:*

Westmoreland (2.99%)

Lancaster (2.77%)

Bucks (2.40%)

Berks (2.21%)

Allegheny (2.94%)

Washington (2.73%)

Crawford (2.27%)

Bradford (2.25%)

Bradford (2.25%)

` ,

The ten counties with the most miles of local roads and streets (maintained by local municipalities) were:*

Allegheny (5.97%)

York (3.32%)

Bucks (3.04%)

Erie (2.31%)

Lancaster (3.54%)

Westmoreland (3.11%)

Chester (2.97%)

Montgomery (3.47%)

Berks (3.04%)

Philadelphia (2.75%)

The ten counties with the most reported traffic crashes were:

Philadelphia (10.1%)

Bucks (5.2%)

Chester (3.7%)

York (3.4%)

Allegheny (9.5%)

Lancaster (4.1%)

Berks (3.5%)

See page 59.

Montgomery (7.0%)

Delaware (3.9%)

Lehigh (3.4%)

See page 59.

The ten counties with the most traffic-related deaths were:

 Philadelphia (7.0%)
 Allegheny (5.3%)
 Montgomery (4.6%)

 Lancaster (3.7%)
 Berks (3.6%)
 Bucks (3.6%)

Chester (3.3%) York (3.1%) Westmoreland (3.0%)

Lehigh (2.8%) See page 61.

^{*}Information provided by PennDOT's Bureau of Planning and Research, Performance Monitoring Division.

Pennsylvania Crashes by County

Percentages compare the number to the statewide total at the bottom of the columns.

County	Population	Fatal Crashes	Injury Crashes	PDO Crashes	Total Crashes
Adams	86,537 (0.7%)	14 (1.0%)	526 (0.6%)	392 (0.8%)	932 (0.7%)
Allegheny	1,268,446 (10.6%)	72 (5.3%)	8.273 (9.4%)	5,080 (9.9%)	13,425 (9.5%)
Armstrong	73,181 (0.6%)	12 (0.9%)	445 (0.5%)	257 (0.5%)	714 (0.5%)
Beaver	184,406 (1.5%)	16 (1.2%)	1,122 (1.3%)	683 (1.3%)	1,821 (1.3%)
Bedford	49,373 (0.4%)	8 (0.6%)	438 (0.5%)	325 (0.6%)	771 (0.6%)
Berks	355,956 (3.0%)	51 (3.8%)	2,778 <u>(3.2%)</u>	2,061 (4.0%)	4,890 (3.5%)
Blair	130,615 (1.1%)	16 (1.2%)	1,168 (1.3%)	705 (1.4%)	1,889 (1.3%)
Bradford	62,459 (0.5%)	5 (0.4%)	398 (0.5%)	268 (0.5%)	671 (0.5%)
Bucks	587,942 (4.9%)	52 (3.8%)	4,444 (5. <u>0%</u>)	2,777 (5.4%)	7,273 <u>(5.2</u> %)
Butler	170,785 (1.4%)	25 (1.8%)	1,139 (1.3%)	798 (1.6%)	1,962 (1.4%)
Cambria	156,080 (1.3%)	18 (1.3%)	904 (1.0%)	514 (1.0%)	1,436 (1.0%)
Cameron	5,620 (0.1%)	2 (0.2%)	33 (0.0%)	23 (0.0%)	<u>58</u> (0.0%)
Carbon	58,857 (0.5%)	15 (1.1%)	431 (0.5%)	334 (0.7%)	780 (0.6%)
Centre	132,700 (1.1%)	14 (1.0%)	845 (1.0%)	622 (1.2%)	1,481 (1.1%)
Chester	421,686 (3.5%)	46 (3.4%)	2,915 (3.3%)	2,233 (4.4%)	5,194 (3.7%)
Clarion	41,841 (0.4%)	11 (0.8%)	349 (0.4%)	186 (0.4%)	546 (0.4%)
Clearfield	80,752 (0.7%)	13 (1.0%)	641 (0.7%)	384 (0.8%)	1,038 (0.7%)
Clinton	37,000 (0.3%)	9 (0.7%)	280 (0.3%)	177 (0.3%)	466 (0.3%)
Columbia	64,120 (0.5%)	4 (0.3%)	465 (0.5%)	308 (0.6%)	777 (0.6%)
Crawford	89,415 (0.8%)	15 (1.1%)	642 (0.7%)	399 (0.8%)	1,056 (0.8%)
Cumberland	208,634 (1.7%)	18 (1.3%)	1,420 (1.6%)	1,089 (2.1%)	2,527 (1.8%)
Dauphin	245,579 (2.1%)	26 (1.9%)	1,791 (2.0%)	1,394 (2.7%)	3,211 (2.3%)
Delaware	542,593 (4.5%)	37 (2.7%)	3,483 (3.9%)	1,948 (3.8%)	5,468 (3.9%)
ik	34,540 (0.3%)	10 (0.7%)	251_(0.3%)	127 (0.3%)	388 (0.3%)
rie	276,401 (2.3%)	34 (2.5%)	2,190 (2.5%)	1,119 (2.2%)	3,343 (2.4%)
ayette	144,847 (1.2%)	34 (2.5%)	1,060 (1.2%)	565 (1.1%)	1,659 (1.2%)
orest	5,002 (0.0%)	2 (0.2%)	62 (0.1%)	35 (0.1%)	99 (0.1%)
ranklin	128,002 (1.1%)	22 (1.6%)	899 (1.0%)	686 (1.3%)	1,607 (1.1%)
ulton	14,498 (0.1%)	10 (0.7%)	172 (0.2%)	136 (0.3%)	318 (0.2%)
Freene	40,742 (0.3%)	3 (0.2%)	298 (0.3%)	195 (0.4%)	496 (0.4%)
luntingdon	44,599 (0.4%)	16 (1.2%)	293 (0.3%)	203 (0.4%)	512 (0.4%)
ndiana	88,567 (0.7%)	21 (1.6%)	637 (0.7%)	359 (0.7%)	1,017 (0.7%)
efferson	46,250 (0.4%)	6 (0.4%)	318 (0.4%)	224 (0.4%)	548 (0.4%)
uniata	22,101 (0.2%)	2 (0.2%)	163 (0.2%)	81 (0.2%)	246 (0.2%)
.ackawanna	208,455 (1.7%)	30 (2.2%)	1,499 (1.7%)	982 (1.9%)	2,511 (1.8%)
.ancaster	456,414 (3.8%)	49 (3.6%)	3,435 (3.9%)	2,230 (4.4%)	5,714 <u>(4.1%)</u>
.awrence	94,887 (0.8%)	18 (1.3%)	743 (0.8%)	373 (0.7%)	1,134 (0.8%)
.ebanon	117,434 (1.0%)	19 (1.4%)	908 (1.0%)	596 (1.2%)	1,523 (1.1%)
.ehigh	299,341 (2.5%)	37 (2.7%)	2,898 (3.3%)	1,881 (3.7%)	4,816 (3.4%)
.uzerne	313,767 (2.6%)	29 (2.1%)	2,333 (2.6%)	1,188 (2.3%)	3,550 (2.5%)
ycoming.	117,308 (1.0%)	13 (1.0%)	760 (0.9%)	466 (0.9%)	1,239 (0.9%)
/lcKean	46,500 (0.4%)	11 (0.8%)	265 (0.3%)	210 (0.4%)	486 (0.3%)
/lercer	121,938 (1.0%)	18 (1.3%)	989 (1.1%)	640 (1.3%)	1,647 (1.2%)
Aifflin	46,961 (0.4%)	3 (0.2%)	254 (0.3%)	177 (0.3%)	434 (0.3%)
/lonroe	125,583 (1.1%)	27 (2.0%)	1,277 (1.5%)	894 (1.7%)	2,198 (1.6%)
Montgomery	719,718 (6.0%)	62 (4.6%)	6,048 (6.9%)	3,667 (7.1%)	9,777 (6.9%)
/iontour	17,730 (0.2%)	4 (0.3%)	123 (0.1%)	69 (0.1%)	196 (0.1%)
Northampton	258,679 (2.2%)	25 (1.8%)	1,912 (2.2%)	1,149 (2.2%)	3,086 (2.2%)
Northumberland	94,017 (0.8%)	20 (1.5%)	499 (0.6%)	276 (0.5%)	795 (0.6%)
еггу	44,384 (0.4%)	7 (0.5%)	357 (0.4%)	257 (0.5%)	621 (0.4%)
Philadelphia	1,436,287 (12.0%)	96 (7.1%)	11,761 (13.3%)	2,374 (4.6%)	14,231 (10.1%)
Pike	40,172 (0.3%)	14 (1.0%)	250 (0.3%)	239 (0.5%)	503 (0.4%)
otter	17,184 (0.1%)	3 (0.2%)	105 (0.1%)	48 (0.1%)	156 (0.1%)
ichuylkill	148,266 (1.2%)	28 (2.1%)	1,020 (1.2%)	705 (1.4%)	1,753 (1.2%)
Snyder	38,226 (0.3%)	6 (0.4%)	242 (0.3%)	173 (0.3%)	421 (0.3%)
Somerset	80,267 (0.7%)	24 (1.8%)	499 (0.6%)	363 (0.7%)	886 (0.6%)
Bullivan	6,107 (0.1%)	0 (0.0%)	53 (0.1%)	23 (0.0%)	76 (0.1% <u>)</u>
Susquehanna	42,144 (0.4%)	10 (0.7%)	264 (0.3%)	231 (0.5%)	505 (0.4%)
ioga	41,606 (0.4%)	5 (0.4%)	261 (0.3%)	171 (0.3%)	437 (0.3%)
Inion	40,897 (0.3%)	3 (0.2%)	199 (0.2%)	158 (0.3%)	360 (0.3%)
/enango	57,844 (0.5%)	10 (0.7%)	432 (0.5%)	290 (0.6%)	732 (0.5%)
Varren	43,910 (0.4%)	8 (0.6%)	271 (0.3%)	199 (0.4%)	478 (0.3%)
Vashington	205,566 (1.7%)	16 (1.2%)	1,311 (1.5%)	949 (1.9%)	2,276 (1.6%)
Vayne	45,226 (0.4%)	14 (1.0%)	358 (0.4%)	229 (0.5%)	601 (0.4%)
Vestmoreland	372,103 (3.1%)	42 (3.1%)	2,504 (2.8%)	1,465 (2.9%)	4,011 (2.9%)
Vyoming	29,149 (0.2%)	8 (0.6%)	239 (0.3%)	135 (0.3%)	382 (0.3%)
rork	373,255 (3.1%)	40 (3.0%)	2,949 (3.3%)	1,829 (3.6%)	4,818 (3.4%)
TOTAL	12,001,451 (100.0%)	1,358 (100.0%)	88,291 (100.0%)	51,323 (100.0%)	140,972 (100.0%)

Crashes by County—Five-Year Trends

Percentages compare the number to the statewide total at the bottom of the columns.

Asams 974 (0.7%) 997 (0.7%) 998 (0.5%) 13.98 (0.5%) 977 (0.7%) 322 (0.5%) 13.98 (0.7%) 13.98 (0.	County	1994 Crashes	1995 Crashes	1996 Crashes	1997 Crashes	1998 Crashes
Allegheny (280 (9.5%) 12.969 (9.5%) 13.816 (9.7%) 13.903 (9.7%) 13.425 (9.5%) 74 (0.5%	-	974 (0.7%)		908 (0.6%)		
Amstrong 88 (0.5%) 731 (0.5%) 789 (0.5%) 754 (0.5%) 744 (0.5%) 174 (0.5%) 8edrord 682 (0.5%) 712 (0.5%) 712 (0.5%) 700 (0.5%) 747 (0.5%) 777 (0	Allegheny		, ,	· ·	, ,	, ,
Beaver	Armstrong	, ,				
Berks	Beaver	1,853 (1.4%)	1,948 (1.4%)			<u>-</u>
Sair	Bedford	682 (0.5%)	712 (0.5%)	709 (0.5%)	747 (0.5%)	771 (0.6%)
Bandford 619 (0.5%)	Berks	4.782 (3.6%)	4,784 (3.5%)	5,051 (3.5%)	5 <u>,195</u> (3.6%)	4,890 (3.5%)
Bucks 7,034 (6.2%) 7,041 (6.1%) 7,515 (6.3%) 7,446 (6.2%) 7,273 (6.2%) 8uler 2,009 (1.1%) 1,052 (1.4%) 1,923 (1.3%) 2,771 (1.5%) 1,062 (1.4%) 1,062 (1.4%) 1,062 (1.4%) 1,062 (1.4%) 1,062 (1.4%) 1,062 (1.4%) 1,062 (1.4%) 1,062 (1.4%) 1,062 (1.4%) 1,062 (1.4%) 1,063 (1.1%) 1,062 (1.4%) 1,062			1,612 (1.2%)	1,764 (1.2%)	1,861 (1.3%)	1,889 (1.3%)
Sulter					• •	671 (0.5%)
Cambroin 1.644 (1.1%) 1.545 (1.1%) 1.545 (1.0%) 1.591 (1.1%) 1.536 (1.0%) 58 (0.0%) 58						
Cameron 66 (0.0%) 76 (0.1%) 75 (0.1%) 55 (0.0%) 89 (0.0%) Carbron 720 (0.5%) 787 (0.5%) 772 (0.5%) 802 (0.5%) 780 (0.6%) Cartre 1,333 (1.0%) 1,393 (1.0%) 1,598 (1.1%) 1,508 (1.1%) 1,444 (1.0%) 1,481 (1.1%) Clancon 536 (0.4%) 535 (0.4%) 598 (0.4%) 632 (0.4%) 546 (0.4%) Clancon 536 (0.4%) 437 (0.3%) 1,444 (1.07%) 1,089 (0.5%) 5,194 (3.7%) Clancon 470 (0.4%) 437 (0.3%) 1,441 (0.0%) 1,411 (0.0%)		· · · · ·		• •		
Carbon 720 (0.5%) 787 (0.6%) 772 (0.5%) 802 (0.6%) 780 (0.6%) Cantre 1.333 (10%) 1.338 (1.0%) 1.508 (1.1%) 1.444 (1.0%) 1.448 (1.0%) Chestier 5.072 (3.8%) 4.788 (3.5%) 5.199 (3.6%) 5.212 (3.8%) 5.194 (3.7%) Chestier 1.023 (0.8%) 1.041 (0.8%) 1.041 (0.7%) 1.089 (0.8%) 5.242 (3.8%) 5.49 (3.7%) Clicarfield 1.023 (0.8%) 1.041 (0.8%) 1.041 (0.7%) 1.089 (0.8%) 4.038 (0.7%) Clicarfield 1.023 (0.8%) 1.044 (0.8%) 1.055 (0.4%) 4.75 (0.3%) 4.75 (0.3%) 4.75 (0.3%) 4.75 (0.3%) 4.60 (0.3%) Columbia 720 (0.5%) 7.11 (0.5%) 756 (0.5%) 759 (0.5%) 777 (0.6%) Cumberland 1.073 (0.8%) 1.180 (0.9%) 1.118 (0.8%) 1.118 (0.8%) 1.123 (0.8%) 1.055 (0.8%) Cumberland 2.546 (1.9%) 2.415 (1.8%) 2.605 (1.8%) 2.528 (1.8%) 2.527 (1.8%) Delaware 5.249 (3.9%) 5.267 (3.9%) 5.107 (3.0%) 5.49 (3.3%) 5.502 (3.9%) 5.267 (3.9%) 5.49 (3.3%) 5.502 (3.9%) 5.468 (3.9%) 5.267 (3.9%) 5.267 (3.9%) 5.49 (3.3%) 5.502 (3.9%) 3.03 (2.3%) 3.474 (2.4%) 3.343 (2.4%) Eine 3.040 (2.5%) 3.414 (2.5%) 3.035 (2.5%) 3.474 (2.4%) 3.343 (2.4%) Fire 3.403 (2.5%) 3.414 (2.5%) 3.635 (2.5%) 3.474 (2.4%) 3.343 (2.4%) Fire 3.403 (2.5%) 3.414 (2.5%) 3.635 (2.5%) 3.474 (2.4%) 3.448 (2.4%) Fire 3.403 (2.5%) 3.444 (2.5%) 3.635 (2.5%) 3.474 (2.4%) 3.484 (2.4%) Fire 3.403 (2.5%) 3.444 (2.5%) 3.635 (2.5%) 3.474 (2.4%) 3.484 (2.4%) Fire 3.403 (2.5%) 3.503 (3.6%) 3.484 (3.0%) 3.600 (3.5%)	1					• •
Centre 1,333 (1,0%) 1,398 (1,0%) 1,508 (1,1%) 1,444 (1,0%) 1,481 (1,1%) 1,461 (1,0%) 1,414 (1,0%		** (*******				
Chestler 5,072 (3,8%) 4,786 (2,5%) 5,199 (3,6%) 5,212 (3,6%) 5,194 (3,7%) Cilcarfield 1,023 (0,8%) 1,044 (0,8%) 1,041 (0,7%) 1,089 (0,9%) 4,038 (0,7%) 460 (0,3%) 1,038 (0,7%) 475 (0,3%) 477 (0,5%) 476 (0,3%) 4					, ,	, ,
Clarford 1,023 (0.8%)				, ,		
Clearfield 1,023 (0.8%)				<u>_</u>		
Clinton 470 (0.4%) 437 (0.3%) 475 (0.3%) 497 (0.3%) 466 (0.3%) 711 (0.5%) 756 (0.5%) 776 (0.5%) 776 (0.5%) 776 (0.5%) 776 (0.5%) 776 (0.5%) 776 (0.5%) 776 (0.5%) 776 (0.5%) 776 (0.5%) 776 (0.5%) 776 (0.5%) 776 (0.5%) 777 (0.5%) 776 (0.5%) 777 (0.5%) 776 (0.5%) 776 (0.5%) 777 (0.5%) 776 (0.5%) 777 (0.5%) 777 (0.5%) 777 (0.5%) 777 (0.5%) 777 (0.5%) 777 (0.5%) 777 (0.5%) 777 (0.5%) 777 (0.5%) 777 (0.5%) 777 (0.5%) 777 (0.5%) 777 (0.5%) 777 (0.5%) 777		, ,		, ,	· · · · · · · · · · · · · · · · · · ·	
Columbia		, ,	· ·			
Crawford 1.073 (0.8%) 1.180 (0.9%) 1.118 (0.8%) 1.123 (0.8%) 1.056 (0.8%) Cumberland 2.546 (1.9%) 2.415 (1.18%) 2.050 (1.8%) 2.528 (1.8%) 2.527 (1.18%) 2.914 (1.2%) 3.051 (2.3%) 3.118 (2.3%) 3.197 (2.2%) 3.204 (2.2%) 3.211 (2.3%) 5.000 (2.2%) 3.214 (2.3%) 5.000 (2.2%) 3.214 (2.3%) 5.000 (2.2%) 3.214 (2.3%) 5.000 (2.3%) 4.000 (2.3%) 4.000 (2.5%) 5.000 (2.5%) 4.000 (2.			<u> </u>			
Cumberland 2.546 1.9% 2.415 1.8% 2.505 1.8% 2.528 1.8% 2.527 1.8% Dauphrn 3.051 2.3% 3.116 3.116 3.1			· · ·	· · · · ·	· · ·	· · ·
Dauphin 3.051 (2.3%) 3.118 (2.3%) 3.197 (2.2%) 3.204 (2.2%) 3.211 (2.3%) Delaware 5.249 (3.9%) 5.687 (3.9%) 5.687 (3.9%) 5.688 (3.9%) 5.687 (3.9%) 5.688 (3.9%) 5.687 (3.9%) 5.688 (3.9%) 5.688 (3.9%) 3.80 (0.3%) 423 (0.3%) 3.88 (0.3%) 3.80 (0.3%) 423 (0.3%) 3.88 (0.3%) 3.81 (0.2%) 3.841 (2.5%) 3.855 (2.5%) 3.474 (2.4%) 3.343 (2.2%) 3.35 (2.2%) 3.35 (2.2%) 3.366 (2.2%) 3.366 (2.2%) 3.366 (2.2%) 3.366 (2.2%) 3.366 (2.4%) 3.366 (2.2%) 3.366 (2.4%) 3.366 (2.						
Delaware 5,249 (3.9%) 5,267 (3.9%) 5,419 (3.8%) 5,562 (3.9%) 3,468 (3.9%) 428 (0.3%) 438 (0.3%) 438 (0.3%) 380 (0.3%) 422 (0.3%) 388 (0.3%) 388 (0.3%) 380 (0.3%) 425 (0.3%) 388 (0.3%) 388 (0.3%) 380 (0.3%) 428 (0.3%) 380 (0.3%)						
Elk 405 (0.3%) 488 (0.3%) 380 (0.3%) 422 (0.3%) 388 (0.3%) 526 (0.3%) 3.414 (2.5%) 3.451 (2.5%) 3.451 (2.5%) 3.451 (2.5%) 3.451 (2.4%) 3.443 (2.4%) 3.443 (2.4%) 1.510 (1.1%) 1.406 (1.1%) 1.508 (1.1%) 1.598 (1.1%)	•			* *		· ·
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Schuylkill 1,684 (1.3%) 1,571 (1.1%) 1,783 (1.2%) 1,799 (1.2%) 1,753 (1.2%) Snyder 392 (0.3%) 394 (0.3%) 398 (0.3%) 432 (0.3%) 421 (0.3%) Somerset 815 (0.6%) 885 (0.6%) 940 (0.7%) 991 (0.7%) 86 (0.6%) Sultivan 83 (0.1%) 82 (0.1%) 90 (0.1%) 91 (0.1%) 76 (0.1%) Susquehanna 445 (0.3%) 459 (0.3%) 537 (0.4%) 602 (0.4%) 505 (0.4%) Tioga 435 (0.3%) 438 (0.3%) 481 (0.3%) 474 (0.3%) 437 (0.3%) Union 422 (0.3%) 384 (0.3%) 422 (0.3%) 381 (0.3%) 360 (0.3%) Venango 763 (0.6%) 841 (0.6%) 815 (0.6%) 755 (0.5%) 732 (0.5%) Warren 509 (0.4%) 560 (0.4%) 602 (0.4%) 524 (0.4%) 478 (0.3%) Washington 2,079 (1.5%) 2.104 (1.5%) 2,168 (1.5%) 2,342 (1.6%) 2,276 (1.6%) Wayne 551 (0.4%) 577 (0.4%) 581 (0.4%) 655 (0.5%) 601 (0.4%)	Pike	529 (0.4%)	445 (0.3%)	469 (0.3%)	535 (0.4%)	503 (0.4%)
Snyder 392 (0.3%) 394 (0.3%) 398 (0.3%) 432 (0.3%) 421 (0.3%) Somerset 815 (0.6%) 885 (0.6%) 940 (0.7%) 991 (0.7%) 886 (0.6%) Sullivan 83 (0.1%) 82 (0.1%) 90 (0.1%) 91 (0.1%) 76 (0.1%) Susquehanna 445 (0.3%) 459 (0.3%) 537 (0.4%) 602 (0.4%) 505 (0.4%) Tioga 435 (0.3%) 438 (0.3%) 481 (0.3%) 474 (0.3%) 437 (0.3%) Union 422 (0.3%) 384 (0.3%) 422 (0.3%) 381 (0.3%) 360 (0.3%) Venango 763 (0.6%) 841 (0.6%) 815 (0.6%) 755 (0.5%) 72 (0.5%) Warren 509 (0.4%) 560 (0.4%) 602 (0.4%) 524 (0.4%) 478 (0.3%) Wayne 551 (0.4%) 577 (0.4%) 581 (0.4%) 655 (0.5%) 601 (0.4%) Weyoming 357 (0.3%) 4259 (3.1%) 4,050 (3.2%) 4,249 (3.0%) 4,011 (2.9%) York 4,536 (3.4%) 4,524 (3.3%) 4,743 (3.3%) 4,647 (3.2%) 4,818 (3.4%)	Potter	148 (0.1%)	184 (0.1%)	151 (0.1%)	, ,	156 (0.1%)
Somerset 815 (0.6%) 885 (0.6%) 940 (0.7%) 991 (0.7%) 886 (0.6%) Sultivan 83 (0.1%) 82 (0.1%) 90 (0.1%) 91 (0.1%) 76 (0.1%) Susquehanna 445 (0.3%) 459 (0.3%) 537 (0.4%) 602 (0.4%) 505 (0.4%) Tioga 435 (0.3%) 438 (0.3%) 481 (0.3%) 474 (0.3%) 437 (0.3%) Union 422 (0.3%) 384 (0.3%) 422 (0.3%) 381 (0.3%) 360 (0.3%) Venango 763 (0.6%) 841 (0.6%) 815 (0.6%) 755 (0.5%) 732 (0.5%) Warren 509 (0.4%) 560 (0.4%) 602 (0.4%) 524 (0.4%) 478 (0.3%) Washington 2,079 (1.5%) 2,104 (1.5%) 2,168 (1.5%) 2,342 (1.6%) 2,276 (1.6%) Wayre 551 (0.4%) 577 (0.4%) 581 (0.4%) 655 (0.5%) 601 (0.4%) Westmoreland 4,135 (3.1%) 4,259 (3.1%) 4,505 (3.2%) 4,249 (3.0%) 4,011 (2.9%) Wyorking 357 (0.3%) 345 (0.3%) 4,743 (3.3%) 4,647 (3.2%) 4,818 (3.4%)	Schuylkill	1,684 (1.3%)	1,571 (1.1%)	1,783 (1.2%)	1,799 (1.2%)	1,753 (1.2%)
Sultivan 83 (0.1%) 82 (0.1%) 90 (0.1%) 91 (0.1%) 76 (0.1%) Susquehanna 445 (0.3%) 459 (0.3%) 537 (0.4%) 602 (0.4%) 505 (0.4%) Tloga 435 (0.3%) 438 (0.3%) 481 (0.3%) 474 (0.3%) 437 (0.3%) Union 422 (0.3%) 384 (0.3%) 422 (0.3%) 381 (0.3%) 360 (0.3%) Venango 763 (0.6%) 841 (0.6%) 815 (0.6%) 755 (0.5%) 732 (0.5%) Warren 509 (0.4%) 560 (0.4%) 602 (0.4%) 524 (0.4%) 478 (0.3%) Washington 2,079 (1.5%) 2,104 (1.5%) 2,168 (1.5%) 2,342 (1.6%) 2,276 (1.6%) Wayne 551 (0.4%) 577 (0.4%) 581 (0.4%) 655 (0.5%) 601 (0.4%) Westmoreland 4,135 (3.1%) 4,259 (3.1%) 4,505 (3.2%) 4,249 (3.0%) 4,011 (2.9%) Wyorning 357 (0.3%) 345 (0.3%) 4,29 (0.3%) 365 (0.3%) 382 (0.3%) York 4,536 (3.4%) 4,524 (3.3%) 4,743 (3.3%) 4,647 (3.2%) 4,818 (3.4%)		· ·				
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Warren 509 (0.4%) 560 (0.4%) 602 (0.4%) 524 (0.4%) 478 (0.3%) Washington 2,079 (1.5%) 2,104 (1.5%) 2,168 (1.5%) 2,342 (1.6%) 2,276 (1.6%) Wayne 551 (0.4%) 577 (0.4%) 581 (0.4%) 655 (0.5%) 601 (0.4%) Westmoreland 4,135 (3.1%) 4,259 (3.1%) 4,505 (3.2%) 4,249 (3.0%) 4,011 (2.9%) Wyorming 357 (0.3%) 345 (0.3%) 429 (0.3%) 365 (0.3%) 382 (0.3%) York 4,536 (3.4%) 4,524 (3.3%) 4,743 (3.3%) 4,647 (3.2%) 4,818 (3.4%)		· · · · · · · · · · · · · · · · · · ·				
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Wyorking 357 (0.3%) 345 (0.3%) 429 (0.3%) 365 (0.3%) 382 (0.3%) York 4,536 (3.4%) 4,524 (3.3%) 4,743 (3.3%) 4,647 (3.2%) 4,818 (3.4%)			, ,			· · ·
York 4,536 (3.4%) 4,524 (3.3%) 4,743 (3.3%) 4,647 (3.2%) 4,818 (3.4%)						
	TOTAL	134,171 (100.0%)	136,804 (100.0%)	142,867 (100.0%)	143,981 (100.0%)	140,972 (100.0%)

Traffic Deaths by County—Five-Year Trends

Percentages compare the number to the statewide totals at the bottom of the columns.

Adams	County	1994 Deaths	1995 Deaths	1996 Deaths	1997 Deaths	1998 Deaths
Allegheny 34 (5.8%) 82 (5.5%) 73 (5.0%) 85 (5.4%) 76 (5.3%) Amstrong 15 (1.0%) 11 (0.7%) 10 (0.7%) 15 (1.0%) 12 (0.8%) Beaver 19 (1.3%) 11 (0.7%) 14 (1.0%) 15 (1.0%) 16 (1.0%) Bearlord 11 (0.0%) 17 (1.1%) 15 (1.0%) 15 (1.0%) 16 (1.1%) Berks 47 (3.3%) 45 (3.0%) 49 (3.3%) 59 (3.8%) 44 (3.8%) Bradford 15 (1.0%) 19 (1.3%) 15 (1.0%) 17 (1.1%) 15 (1.0%) Bradford 15 (1.0%) 19 (1.3%) 15 (1.0%) 17 (1.1%) 15 (1.0%) Bradford 15 (1.0%) 9 (0.6%) 12 (0.8%) 11 (0.7%) 16 (1.2%) Bradford 15 (1.0%) 9 (0.6%) 12 (0.8%) 11 (0.7%) 15 (0.3%) Bradford 15 (1.0%) 9 (0.6%) 12 (0.8%) 11 (0.7%) 5 (0.3%) Buller 20 (1.4%) 37 (2.5%) 22 (1.9%) 27 (1.7%) 25 (1.7%) Buller 20 (1.4%) 16 (1.0%) 16 (1.1%) 13 (0.8%) 18 (1.2%) Buller 20 (1.4%) 16 (0.6%) 17 (1.1%) 13 (0.8%) 18 (1.2%) Buller 20 (1.4%) 16 (1.1%) 12 (0.8%) 17 (1.1%) 18 (0.8%) 18 (1.2%) Buller 20 (1.4%) 16 (1.1%) 12 (0.8%) 17 (1.1%) 18 (1.2%) Buller 20 (1.4%) 16 (1.1%) 12 (0.8%) 17 (1.1%) 18 (1.1%) Buller 20 (1.4%) 16 (1.1%) 12 (0.8%) 17 (1.1%) 18 (1.1%) Buller 20 (1.4%) 16 (1.1%) 18 (1.1%) 18 (1.2%			12 (0.8%)			
Beaver	Allegheny			, ,,		, ,
Badford		15 (1.0%)		• •	, ,	, ,
Berks	Beaver	19 (1.3%)	11 (0.7%)	14 (1.0%)	16 (1.0%)	16 (1.1%)
Balar	Bedford	11 (0.8%)	17 (1.1%)	15 (1.0%)	11 (0.7%)	10 (0.7%)
Badford 15 (1.0%) 9 (0.8%) 12 (0.8%) 11 (0.7%) 5 (0.3%) 5 (0.3%) Bulter 20 (1.4%) 37 (2.5%) 28 (1.9%) 27 (1.7%) 25 (1.7%) Cameron 1 (0.1%) 10 (0.0%) 3 (0.2%) 12 (0.1%) 2 (0.1%) 2 (1.1%) Cameron 1 (0.1%) 0 (0.0%) 3 (0.2%) 12 (1.1%) 17 (1.1%) 17 (1.1%) Carbon 10 (0.7%) 9 (0.8%) 17 (1.2%) 17 (1.1%) 17 (1.1%) 17 (1.1%) Carbon 10 (0.7%) 9 (0.8%) 3 (0.2%) 2 (0.1%) 2 (0.1%) Carbon 10 (0.7%) 9 (0.8%) 3 (0.2%) 25 (1.6%) 48 (1.2%) Carbon 7 (0.5%) 16 (1.1%) 12 (0.0%) 25 (1.6%) 48 (1.2%) Carbon 7 (0.5%) 8 (0.5%) 14 (1.0%) 10 (0.0%) 12 (0.8%) Clarion 7 (0.5%) 8 (0.5%) 14 (1.0%) 10 (0.0%) 12 (0.8%) Clarion 7 (0.5%) 8 (0.5%) 14 (1.0%) 10 (0.0%) 12 (0.8%) Clarion 7 (0.5%) 9 (0.8%) 9 (0.8%) 14 (1.0%) 10 (0.0%) 12 (0.8%) Clarion 9 (0.6%) 9 (0.8%) 9 (0.6%) 14 (1.0%) 10 (0.0%) 12 (0.8%) Clinton 9 (0.6%) 9 (0.8%) 9 (0.6%) 14 (1.0%) 10 (0.0%) 10 (0.7%) Clourbia 8 (0.5%) 6 (0.4%) 17 (1.2%) 15 (1.0%) 16 (1.1%) Carword 22 (1.6%) 20 (1.4%) 17 (1.2%) 15 (1.0%) 16 (1.1%) Carword 23 (1.6%) 32 (2.2%) 25 (1.7%) 27 (1.7%) 26 (1.8%) Carword 24 (1.5%) 40 (2.3%) 42 (2.5%) 42	Berks	47 (3.3%)	45 (3.0%)	49 (3.3%)	59 (3.8%)	54 (3.6%)
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Countie

Pedestrian Deaths by County—Five-Year Trends

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York 4 2 5 1						4
	Wyoming					0
TOTAL 179 198 218 175 16						
	TOTAL	179	198	218	1/5	166

Pedestrian Deaths and Injuries by Age Group by County

	Age	0-4	Age	5-9	Age	10-14	Age	15-59	Age	60+	To	otal
County	Death	Injury	Death	Injury	Death	Injury	Death	Injury	Death	Injury	Death	Injury
Adams	0	4	0	0	0	7	1	4	2	3	3	18
Allegheny	0	27	1	68	0	68	5	314	7	73	13	550
Armstrong Beaver	0	0	0	1 4	0	$-\frac{3}{3}$	0	2	0	<u>2</u> 4	2	<u>8</u> 27
Bedford	0	Ó	0	1	0	2	0	15 6	0	1	1	10
Berks	1	20	Ö	35	,	25	3	74	3	13	7	167
Blair	0	$-\frac{25}{3}$	0	6	0	4	0	30	1	4	1	47
Bradford	0	1	0	2	0	0	o	7	0	1	0	11
Bucks	0	3	0	9	1	14	4	86	4	13	9	125
Butler	0	0	0	3	0	4	1	22	2	1	3	30
Cambria	0	2	0	4	0	5	0	15	2	3	2	29
Cameron	0 0	0	0	0 1	0	0	0	0	0	0	0	0 12
Carbon Centre	0	0	0	3	0	4 3	0	6 31	0	1	0	41
Chester	Ö	3	Ö	10	1 1	16	4	60	ő	9	5	98
Clarion	0	0	0	0	0	1	1	6	ō	2	1 -	9
Clearfield	0	1	0	3	0	4	0	6	1	0	1	14
Clinton_	0	0	0	1	0	1	0	2	1	4	1	8
Columbia	0	1	0	5	0	1	0	9	1	2	1	18
Crawford	0	1	0	2	0	2	0	13	1	4	1	22
Cumberland	0		0	30	0	9	0	33 67	1	7 12	0 4	<u>54</u> 129
Dauphin	0	8 ⁻ 13	0		0 1	12 56	3	104	5	37	12	252
Delaware Ełk	0	0	0	42 1	0	56 1	6	104 5	0	0	0	7
Erie	0	- 5	0	24	0	18	3	 61	1	11	4	119
Fayette	. 0	Ö	1	3	0	5	1	15	o	7	2	30
Forest	0	0	0	0	0	0	0	0	0	. 0	0	0
Franklin	0	1	0	3	0	5	0	16	1	2	1	27
Fulton	0	0	0	0	0	0	0	0	0	1	0	1
Greene	0	0	0		0	2	0	2	0	1		6
Huntingdon	0	1	0	2	0	4 1	1 0	1	0	0	1 1	8 15
Indiana Jefferson	1	0	1	4	0	3	0	8 4	0	· 0	2	8
Juniata	0	-	0	<u> </u>	0		- 6		0	1	$-\frac{2}{0}$	3
Lackawanna	Ö	2	ō	10	Ö	. 13	4	38	1	18	5	81
Lancaster	1	18	0	32	0	22	2	64	_ 2	16	5	152
Lawrence	0	0	0	2	0	4	2	9	1	4	3	19
Lebanon	0	1	0	8	0	5	0	20	2	7	2	41
Lehigh	0	7	0	28 8	1	34 11	4	74 55	2	16 20	5 5	163 101
Luzerne Lycoming	1	2	Ö	11	1	7		26	0	6	3	52
McKean	Ö	0	ŏ	2	Ö	1	;	4	Ö	Ö	1	7
Mercer	0	2	0		0	3	0	12	1	4	1	22
Mifflin	0	0	0	0	0	3	0	6	0	0	0	9
Monroe	0	0	0	3	0	6	3	11	0	3	3	23
Montgomery	0	8	1	37	0	35	1	156	3	28	5	264
Montour	0	0	0	2	0	1	0	4	0	1	0	8
Northampton	0	6 2	0 -	<u>8</u>	0	<u>14</u> 	0	<u>44</u> 7	1	12	5 2	84 21
Northumberland Perry	0	0	0	2	0	0	6	5	Ö	0	Õ	7
Philadelphia	0	159	1	428	1	307	12	1,286	12	206	26	2,386
Pike		0	0	0	0	0	1	1	0	1	1	2
Potter	0	0	0	2	0	0	0	0 .	0	1	0	3
Schuylkill	0	2	0	9	0	7	2	27	0	9	2	54
Snyder	0	0_	0		0	1	0	2	0	0	0	5
Somerset	0	1	0	0	0	0	0	4	1	2 0	1	7 0
Sullivan Susquehanna	0	0	0	<u>0</u>	0		0	<u>0</u> 3	0	1	0	7
Susquenanna Tioga	0	1	0	0	0	0	1	6	0	2	1 1	9
Union	0	Ö	0	1	0	2	o	2	ő	Õ	0	5
Venango	0	0	0	3	0	1	0	7	0	2	0	13
Warren	0	0	0	1	0	0	1	• 4	0	3	1	8
Washington	0	1	0	3	0	1	1	26	0	7	1	38
Wayne	0	0	0	0	0	1 5	0	4	0	2	0	7 ⁻ 73
Westmoreland	0	1 0	0	13 1	0	5 0	3	46 2	0	8 0	4	73
Wyoming York	0	7	0	1 19	0	26	1		2	8	4	123
TOTAL	5	327	6	917	9	797	78	3,044	67	615	165	5,700
	- Y											

Note: The above totals do not include any additional pedestrians of unknown age.

Countie

Percent Seat Belt Use in Crashes by County—Five-Year Trends

County	1994 Belt Use	1995 Belt Use	1996 Belt Use	1997 Belt Use	1998 Belt Use
Adams	71	73	70	72	71
Allegheny	58	59	60	60	61
Armstrong	72	73	71	69	67
Beaver	49	49	52	49	50
Bedford	75	79	78	80	81
Berks	63	65	_64	63	64
Blair	75	76	74	75	78
Bradford	72	71	72	75	74
Bucks	65	66		67	68
Butler	70	69	71	69	72
Cambria	63	67	66	67	64
Cameron	67	71	60	72	70
Carbon	64	65	68	61	62
Centre	73	73	74	78	77
Chester	73	72	74	74	73
Clarion	77	73	76	74	70
Clearfield	73	73	73	74	75
Clinton	74	74	74	72	73
Columbia	69	72	67	67	65
Crawford	72	75 70	71 	. 70	74
Cumberland	75	76	77	76	74
Dauphin	72	70	70	70	72
Detaware	54	54	57	55	57
Elk	70	66	69	69	73
Erie	71	70	69	68	69
Fayette	68	71	72	69	69
Forest	67	69	68	78	70
Franklin	72	70	73	72	72
Fulton	75	76	73	74	75
Greene	80	82		79	77
Huntingdon	73	73	74	73	70
Indiana	78	78	79	79	79
Jefferson	71	73	71	70	65
Juniata	70	69	69	73	74
Lackawanna	58	56	59	55	57
Lancaster	75	75	74	74	76
Lawrence	57	60	60	60	60
Lebanon	71	71	67	71 	71
Lehigh	78	77	78	75	75
Luzerne	66	65	66	67	66
Lycoming	69	72	69	72	70
McKean	63	65	62	63	63
Mercer	63	63	65	64	65
Mifflin	70	71	69	69	69
Monroe	75	75	78	77	75
Montgomery	71	70	73	73	73
Montour	74	81	82	82	81
Northampton	69	71	68	69	72 65
Northumberland	65 74	66	62	64	
Perry	71	73 22	75	79 20	79
Philadelphia	20	74	21		19 78
Pike	71		80	77	
Potter	66	71	74	74 69	77 65
Schuylkill	71	69	70		
Snyder Somerset	76 71	77 70	72 72	76 75	81 72
Sullivan	68	70 71	72 67	75 79	70
Susquehanna	73	74	74		73
Tioga	73 79	77	74	76	76
Union	80	76	75 75	76 74	78
Venango	73	75	72	71	73
Warren	73 73	75 75	75	76	78
Washington	69	68	69	69	64
Wayne	75	78	76	75	77
Westmoreland	72	71	73	72	73
Wyoming	71	71	70	77	77
York	72	72	73	72	71
STATEWIDE	64	64	65	64	64

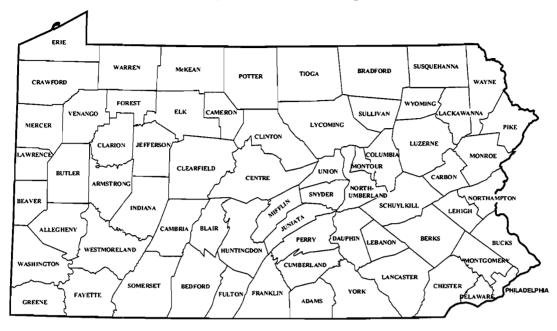
Counties

Alcohol-Related Deaths by County—Five-Year Trends

11	2	12	5	4
37	29	34	40	28
6	4	4	4	4
8	3	7	9	11
3	5	7	4	7
17	14	11	13	17
				7
				2
				20
				7
				6
				1
				10 4
				12
				5
				7
				2
				1
				8
				3
				$\frac{3}{7}$
				14
				8
				16
				22
				0
				10
				7
				1
				16
				14
				o
				13
				11
4				10
3				8
11	13	5	9	13
18	13	16	12	10
5	8	8	5	5
3	2	5	2	4
8	11		11	11
2	2	4	3	0
7	21	5	13	13
15	22	27	25	23
2	0	1	. 0	1
8	7	10	11	9
3	5	3	6	4
3	4	3	2	3
47	37	20	22	15
2	3	5	1	1
1	2	2	3	1
7	9	7	12	14
3	1	2	2	4
6	6	2		15
				0
				4
				4
				0
				3
				1
				7
				5
				23
3 17	1 15	- <u>3</u> 		<u>3</u>
	6 8 3 17 5 6 20 9 11 0 6 6 20 2 2 2 1 1 11 8 11 7 2 15 17 0 14 2 4 7 7 5 3 1 1 1 1 1 1 1 1 1 1 1 1 1	37	37	37 29 34 40 6 4 4 4 8 3 7 9 3 5 7 4 177 14 11 113 5 4 6 6 6 2 3 3 20 24 27 19 9 15 10 8 11 3 4 4 0 0 1 1 6 3 8 5 6 1 2 5 20 19 14 11 2 3 6 3 2 8 9 13 1 2 8 9 13 1 3 3 2 8 9 13 3 2 1 1 2 8 1 1 1 2 8 1 1 1 2 8 1

Pennsylvania Counties

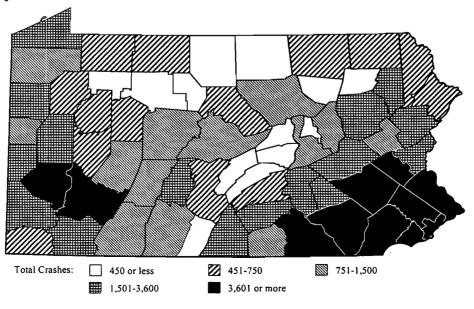
Use the map below as a key to county names for other maps.



The following county-by-county maps have their data broken into five groups, with roughly the same number of counties in each group.

Total Crashes by County

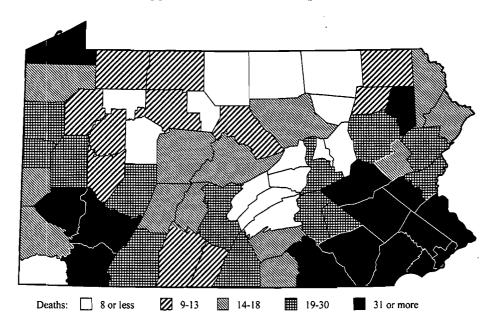
Urban counties, with their higher populations, number of vehicles, and vehicle-miles of travel, lend themselves to a higher number of crashes. Referring to the map below, 56% of the total traffic crashes occurred in only 11 of Pennsylvania's 67 counties. These 11 counties appear in black on the map.



ounties

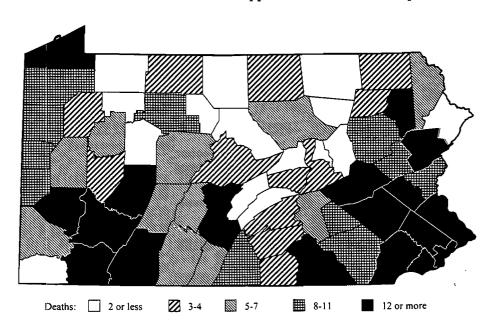
Traffic Deaths by County

Referring to the map below, 53% of the total traffic deaths occurred in only 15 of Pennsylvania's 67 counties. These 15 counties appear in black on the map.



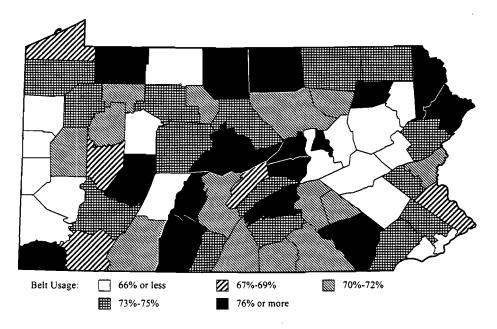
Alcohol-Related Deaths by County

Referring to the map below, 56% of the total alcohol-related deaths occurred in only 18 of Pennsylvania's 67 counties. These 18 counties appear in black on the map.



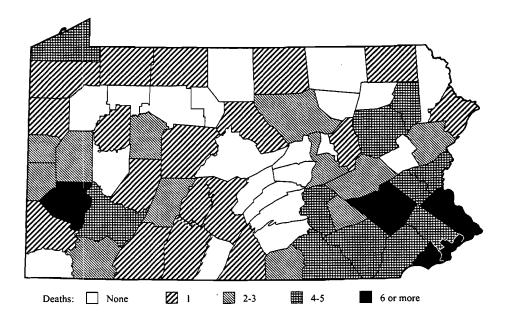
Percent Seat Belt Use in Crashes by County

The percent seat belt use in crashes tended to be lower in counties with major urban areas.



Pedestrian Deaths by County

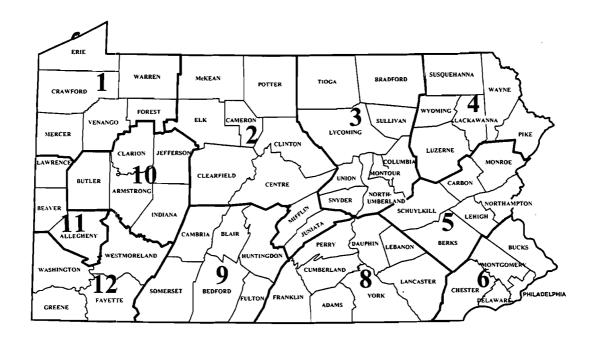
Referring to the map below, 41% of the total pedestrian deaths occurred in only 5 of Pennsylvania's 67 counties. These 5 counties appear in black on the map.



Crashes by Engineering District

The map below illustrates the eleven PennDOT engineering districts in Pennsylvania. The table below lists a breakdown of the number of crashes, deaths, and injuries in 1998 by engineering district.

District	Crashes	Deaths	Injuries
01	7,355	. 96	6,933
02	4,753	76	4,216
03	4,972	66	4,452
04	8,052	110	7,601
05	17,523	199	15,586
06	41,943	316	44,389
08	20,953	219	18,247
09	5,812	106	5,257
10	4,787	76	4,382
11	16,380	116	15,232
12	8,442	106	7,797
Total	140,972	1,486	134,092



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	School Bus Deaths	
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	Light	
	cle Collisions	
	/pes5, 9, 13, 17, 31, 5	
Weather	1	12
Work Zon	es4, 13, 1	14
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1998 Pennsylvania Crash Facts & Statistics Feedback Survey

The 1998 edition of the *Pennsylvania Crash Facts and Statistics* booklet has a new format and new information. In our continuing effort to make this booklet as useful for as many people as possible, we would appreciate your taking the time to fill out this survey and return it to us. Your opinions will shape future editions.

Does this booklet provide information	tion which is	useful to you? (check one)	☐ Yes ☐ No
If not, what information would you	ı like to see i	ncluded?	
Is the format easy to follow? (chec the format better and easier for you	•	es D No If not, what ch	nanges would make
Please rate the following sections of Useful, or Not Useful.		·	
	Useful	Somewhat	Not Useful
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Definitions			
Overview			
All Crashes and Deaths			
Drivers			•
Alcohol-Related Crashes			
Seat Belt, Child Safety Seats, etc.			
Pedestrians and Bicycle Crashes			
Crashes by Motor Vehicle Type			
Pennsylvania County Crashes	۵		
Index			
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		·	-
Your name and organization (option	onal):		

Thank you for your involvement and response.

- 1. Cut this page out of the booklet.
- 2. Fold along the dotted lines and tape shut.
- 3. Place a stamp where indicated.
- 4. Drop into the nearest mailbox.

PLACE STAMP HERE

Pennsylvania Department and Transportation Bureau of Highway Safety and Traffic Engineering P.O. Box 2047 Harrisburg, PA 17105-2047

1998 Pennsylvania Crash Facts & Statistics Survey Form

Dedication

The Commonwealth of Pennsylvania would like to extend its deepest sympathy to the families and friends of the victims of fatal motor vehicle crashes here in Pennsylvania.

We look to the day when publications such as this will no longer be necessary. Until that time, however, the Commonwealth of Pennsylvania will continue to strive to make our roads safer.

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