

2018

PENNSYLVANIA
CRASH FACTS
& STATISTICS



Governor

Tom Wolf

Secretary of Transportation Leslie S. Richards

Introduction

The **2018 Pennsylvania Crash Facts and Statistics** booklet is a report published by the Bureau of Maintenance And Operations, Pennsylvania Department of Transportation. Permission is given to freely copy and distribute this booklet and the information within it. This booklet can now be found on the web at http://www.dotcrashinfo.pa.gov

This publication is a statistical review of reportable motor vehicle crashes in the Commonwealth of Pennsylvania for calendar year 2018. 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).

Specific questions regarding data presented in this report should be addressed to:

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Special Thanks

Quality information is important for creating a highly accurate publication. Our analysts and the police officers who report the crashes that are used in this publication have dedicated many of their days to providing good data. Many police departments have taken the plunge to report electronically which has improved the quality and timeliness of the data we receive. We appreciate everyone's hard work because without this effort, a book like this would not be possible.

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 are understood.

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 quickly by looking at the *Index* on page 70.

Skim through the *Definitions* beginning 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 are located 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. We read every survey returned and consider every response important. We are planning many changes with this publication in the upcoming year or two and your opinions are vital to determining what is important to include.

About the Cover

The picture on the front cover shows the result of a crash involving a hit fixed object. In 2018 the percentage of crashes involving hit fixed objects in crashes was 30.6 percent. Crashes involving hit fixed objects are a special concern to the Pennsylvania Department of Transportation. Additional information on crashes involving hit fixed objects can be found on page 15.

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Definitions

Crash: A reportable crash is one in which an injury or a fatality occurs or at least one of the vehicles involved requires towing from the scene.

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.

Distracted Driving: any activity that could divert a person's attention away from the primary task of driving. Examples of distracted driving include, but are not limited to, texting, eating, grooming, talking to passengers,

DUI: Driving Under the Influence – specifically a driver was drinking.

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 work week 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 fatalities/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 fatality 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 controls. 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.

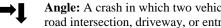
Vehicle-Miles of Travel: A measure that indicates the number of miles traveled by vehicles on PA roadways. Work Zone: An area, usually marked by signs, barricades, or other devices indicating that highway construction or maintenance activities are going on.

Crash Types

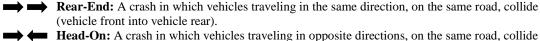
A description which characterizes the first harmful event of the crash and is described as one of the following:



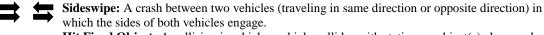
Non-Collision: A harmful event that does not involve a collision with a fixed object or a nonfixed object. These events include explosion, fire, overturn, immersion, and vehicle struck by flying object.

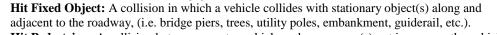


Angle: A crash in which two vehicles on opposite roadways collide at a point of junction, such as a road intersection, driveway, or entrance ramp.



(vehicle front into vehicle front).





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 fatality(ies) are attributable to the crash.

Injury Crash: A crash in which none of the involved persons were fatally injured, but at least one was injured.

Property Damage Only (PDO): A reportable crash where no one was fatally injured or injured, but damage occurred to a vehicle requiring towing.

Injury Severity*

Fatal Injury: The person dies as a result of injuries sustained in the crash within 30 days of the crash. **Suspected Serious Injury:** Any injury other than fatal which results in one or more of the following: severe laceration, significant loss of blood, broken or distorted extremity, crush injuries, suspected skull, chest or abdominal injury, significant burns, unconsciousness, or paralysis.

Suspected Minor Injury: Any injury that is evident at the scene of the crash, other than fatal or serious injuries. Examples include lump on the head, abrasions, bruises, minor lacerations (cuts on the skin surface with minimal bleeding and no exposure of deeper tissue/muscle).

Possible Injury: Any injury reported or claimed which is not a fatal, suspected serious or suspected minor injury. Examples include momentary loss of consciousness, claim of injury, limping, or complaint of pain or nausea. Possible injuries are those which are reported by the person or are indicated by their behavior, but no wounds or injuries are readily evident.

*Note: In 2016, the injury severity descriptions and definitions changed to match federal standards.

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 / SUV / Van: Single vehicle designed for carrying a load of property on or in the vehicle. Includes: pickup truck, sport utility vehicle, van, 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 fifteen 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".

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

Overview

The Commonwealth of Pennsylvania consists of 67 counties. Each county includes 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 120,000 miles* of roads and highways; 33% (39,739 miles*) are state highways maintained by the Pennsylvania Department of Transportation (PennDOT), and the remaining 67% (80,788 miles*) are maintained by local municipalities and other entities.

Motor-vehicle traffic crashes that occur on Pennsylvania roads and highways are investigated and reported by both the Pennsylvania State Police and the 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 2018, there were 128,420 reportable traffic crashes in Pennsylvania. These crashes claimed the lives of 1,190 people and injured another 78,219 people. To add some perspective, the 2018 total of reportable traffic crashes is the fourteenth lowest total since 1950 when 113,748 crashes were reported.

Last year, there were approximately 101.6 billion vehicle-miles* of travel on Pennsylvania's roads and highways. The 2018 fatality rate of 1.17 fatalities per hundred million vehicle-miles of travel* was the second lowest ever recorded in Pennsylvania since the department started keeping records of this in 1935.

2018 Briefs

On Average in Pennsylvania:

- Each day 352 reportable traffic crashes occurred (about 15 crashes every hour).
- Each day 3 persons were fatally injured in reportable traffic crashes (one fatality every 7 hours).
- Each day 214 persons were injured in reportable crashes (about 9 injuries every hour).

Based on Pennsylvania's 2018 population (12,807,060 people):

- 1 out of every 44 people was involved in a reportable traffic crash.
- 1 out of every 10,762 people was fatally injured in a reportable traffic crash.
- 1 out of every 164 people was injured in a reportable traffic crash.

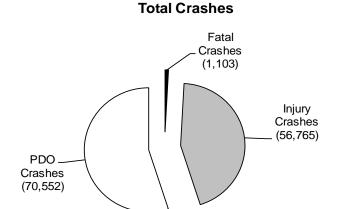
^{*} For consistency purposes, the prior year's data is used at the time of publication because of timing issues. For this Crash Facts & Statistics book, 2017 information was used.

All Crashes and Fatalities —WHO WAS INVOLVED—

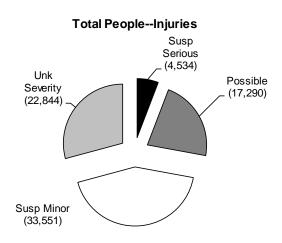
Crashes by Injury Severity

Crashes involving fatalities 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 2018, most were not injured. The 1,190 fatalities in 2018 represent the third lowest number of fatalities in Pennsylvania motor vehicle crashes over the last 91 years.



Fatalities (1,190) No Injuries (78,219)



Please note that beginning January 1, 2016, PennDOT adopted the Federal standard for collecting injury severity data. The field descriptions and definitions changed from the state standard that had been in use for decades. This resulted in a substantial shift in severity levels. Therefore, comparison of the "Suspected Serious Injury", "Suspected Minor Injury" and "Possible Injury" categories will not be consistent for crashes taking place before versus after the adoption of the new standard.

Fatalities and Injuries—Five-Year Trends

Total reported crashes in 2018 increased 0.2% compared to 2017; fatalities increased by 4.7% while total injuries decreased by 3.0%.

	2014	2015	2016	2017	2018
Reported Crashes	121,317	127,127	129,395	128,188	128,420
Total Fatalities	1,195	1,200	1,188	1,137	1,190
Total Injuries	79,758	82,004	82,971	80,612	78,219
Suspected Serious Injury	3,042	3,030	4,397	4,227	4,534
Suspected Minor Injury	12,075	12,503	26,284	27,237	33,551
Possible Injury	40,071	40,364	23,050	22,629	17,290
Unknown Severity	24,570	26,107	29,240	26,519	22,844
Pedestrian Fatalities	166	153	172	150	201
Pedestrian Injuries	3,985	4,002	4,218	4,106	4,090
Motorcyclist Fatalities	186	179	192	185	164
Motorcyclist Injuries	3,207	3,312	3,321	3,052	2,611
Bicyclist Fatalities	19	16	16	21	18
Bicyclist Injuries	1,298	1,268	1,298	1,127	962
Heavy-Truck-Related Fatalities	151	149	162	155	136
Alcohol-Related Fatalities	333	345	297	293	331
Speed-Related Fatalities	312	302	316	304	280
Billions of Vehicle-Miles*	98.6	99.8	100.9	101.1	101.6
Deaths per 100 Million Vehicle-Miles*	1.21	1.20	1.18	1.12	1.17

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

Economic Loss Due to Reportable Traffic Crashes

			Estimated Total
Max Severity	Number	Average Cost	Costs
Fatal Injury (crashes)	1,103	\$12,203,314	\$13,460,255,342
Suspected Serious Injury (crashes)	3,769	\$701,601	\$2,644,334,169
Suspected Minor Injury (crashes)	25,443	\$225,691	\$5,742,256,113
Possible Injury (crashes)	27,553	\$129,596	\$3,570,758,588
Property Damage Only (crashes)	70,552	\$12,110	\$854,384,720
		TOTAL	\$26,271,988,932

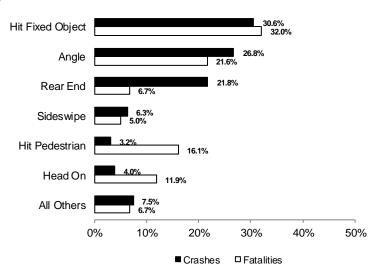
In 2018, the economic loss due to traffic crashes was \$2,051 to every man, woman, and child in Pennsylvania.

The economic loss per Pennsylvania citizen is based on the ratio of estimated total cost to the estimated total population of Pennsylvania. Also note that the Federal guidelines changed for determining the average cost of a crash in 2018. Cost is now based on max crash severity, not injury severity level.

^{*} Vehicle mileage uses the prior years' vehicle mileage information (because at the time of publication, the current year's vehicle mileage is not available).

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. Hit pedestrian crashes, though they occur much less frequently, cause the third highest number of fatalities.

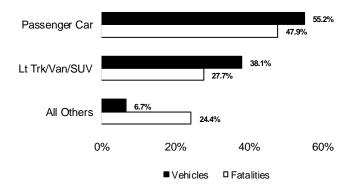


Crash Type	Crashes	Fatalities
Angle	34,346	257
Backing Up	448	0
Head On	5,089	141
Hit Fixed Object	39,261	381
Hit Pedestrian	4,045	191
Non-Collision	4,098	59
Rear End	27,958	80
Sideswipe	8,138	60
Other	5,037	21
TOTAL	128,420	1,190

*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, vans, and SUVs they accounted for the vast majority of crashes and occupant fatalities. Compared with previous years, light truck, van, and SUV vehicles in 2018 were involved in a lower percentage of crashes. Occupant fatalities of motorcycles decreased from 185 in 2017 to 164 in 2018.

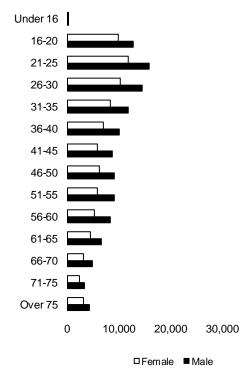


		Occupant
	Vehicles	Fatalities
Passenger Car	117,406	473
Lt Trk/Van/SUV	81,112	274
Heavy Truck	7,910	21
Motorcycle	2,776	164
Bicycle	980	18
Commercial Bus	626	4
School Bus	312	0
Other	1,716	34

Driver Involvement in Crashes by Age and Sex

In most age groups, male drivers are involved in more crashes than female drivers. Male drivers ages 21-25 were involved in more crashes than drivers in any other age group (male or female).

			Total
Driver	Male	Female	Drivers
Under 16	84 (0.1%)	28 (0.0%)	112
16-20	12,939 (10.6%)	9,913 (11.7%)	22,852
21-25	15,872 (13.1%)	11,964 (14.1%)	27,836
26-30	14,679 (12.1%)	10,409 (12.3%)	25,088
31-35	11,991 (9.9%)	8,388 (9.9%)	20,379
36-40	10,254 (8.4%)	7,013 (8.3%)	17,267
41-45	8,797 (7.2%)	5,941 (7.0%)	14,738
46-50	9,124 (7.5%)	6,213 (7.3%)	15,337
51-55	9,222 (7.6%)	5,879 (6.9%)	15,101
56-60	8,374 (6.9%)	5,395 (6.4%)	13,769
61-65	6,738 (5.5%)	4,519 (5.3%)	11,257
66-70	4,879 (4.0%)	3,146 (3.7%)	8,025
71-75	3,425 (2.8%)	2,334 (2.8%)	5,759
Over 75	4,408 (3.6%)	3,252 (3.8%)	7,660
Unknown	850 (0.7%)	272 (0.3%)	1,122
DRIVERS	121,636 (100.0%)	84,666 (100.0%)	206,302

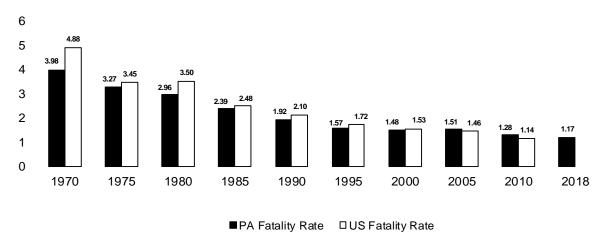


Note: Does not include 3,808 drivers of unknown sex or drivers of non-motorized vehicles.

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. Please note that the 2018 US average fatality rate was not finalized by the time of this publication. The chart below shows the periodic fatality rates since 1970.

Fatality Rates Per 100 Million Vehicle-Miles*



^{*} Beginning in 1999, vehicle mileage uses the prior years' vehicle mileage information (because at the time of publication, the current years' vehicle mileage is not available).

		Total		Registered	Motor Vehicle	PA Fatality	US Fatality
Year 1951	Total Crashes 123,088	Fatalities 1,642	Total Injuries 65.643	Vehicles 3,413,836	Mileage* 28.8	Rate** 5.70	Rate**
1951	123,088	1,642	67,143	3,510,064	30.5	5.70	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 1960	157,191 159,051	1,685 1,609	90,807 92,792	4,507,262 4,707,055	39.2 40.2	4.30 4.00	5.40 5.30
1961	156,559	1,486	73,997	4,842,400	40.2	3.70	5.20
1962	161,557	1,625	81,936	4,849,400	41.7	3.90	5.30
1963	174,527	1,830	86,892	5,117,229	44.6	4.10	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 1969	279,663 292,192	2,410 2,401	138,389 141,728	5,791,000 5,879,000	56.1 58.6	4.29 4.10	5.40 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	307,648	2,444	145,452	7,007,192	66.5	3.67	4.24
1974	277,271	2,155	132,689	8,354,063	63.9	3.37	3.59
1975	288,245	2,082	134,969	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 2,137	148,725	8,833,745	72.3	2.87 2.94	3.35
1978‡ 1979	158,361 156,622	2,137	146,403 144,300	7,254,893 7,451,021	72.7 70.3	2.94 3.14	3.39 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	2.36	2.68
1985	143,244	1,809	140,067	7,860,497	75.6	2.39	2.48
1986 1987	150,683 152,631	1,928 2,006	148,044 151,457	7,793,921 8,313,799	77.2 78.9	2.50 2.54	2.48
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 1995	134,171 136,804	1,440 1,480	130,678 133,177	9,255,714 9,271,517	92.3 94.5	1.56 1.57	1.83 1.72
1995	142,867	1,470	136,949	9,411,261	96.4	1.53	1.69
1997	143,981	1,562	138,820	9,692,499	98.3	1.59	1.64
1998	140,972	1,486	134,092	9,842,427	100.4	1.48	1.58
1999+	144,171	1,549	133,783	9,901,148	100.4	1.54	1.55
2000	147,253	1,520	131,471	10,085,392	102.5	1.48	1.53
2001	131,358	1,532	117,915	10,629,896	103.5	1.48	1.51
2002	138,115	1,618	109,900	10,519,757	103.5	1.56	1.51
2003 2004	140,197 137,410	1,577	112,615 108,146	10,768,222	104.8 106.1	1.50 1.40	1.48 1.46
2004	132,840	1,490 1,616	108,146	10,921,683 11,058,567	106.1	1.40	1.46
2006	128,342	1,525	97,971	11,086,810	107.9	1.41	1.41
2007	130,675	1,491	95,585	11,220,816	108.1	1.38	1.36
2008	125,327	1,468	88,711	11,301,853	108.4	1.35	1.27
2009	121,242	1,256	87,132	11,324,357	107.0	1.17	1.13
2010	121,312	1,324	87,948	11,373,291	103.3	1.28	1.11
2011	125,395	1,286	87,835	11,477,916	101.2	1.27	1.10
2012 2013	124,092	1,310	86,846 83,089	11,508,559	100.2 99.5	1.31	1.16 1.10
2013	124,149 121,317	1,208 1,195	83,089 79,758	11,616,715 11,715,722	99.5	1.21 1.21	1.10
2014	127,127	1,200	82,004	11,974,651	99.8	1.20	1.13
2016	129,395	1,188	82,971	12,066,651	100.9	1.18	1.16
2017	128,188	1,137	80,612	11,832,317	101.1	1.12	1.16
2018	128,420	1,190	78,219	12,036,372	101.6	1.17	
	n billions				l	l .	

^{*} 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

⁺ Beginning in 1999, motor vehicle mileage and PA Fatality Rate uses the prior years' motor vehicle mileage information (because at the time of publication, the current years' roadway mileage is not available)

—WHAT CONDITIONS WERE—

Crashes by Weather and Road Surface Conditions

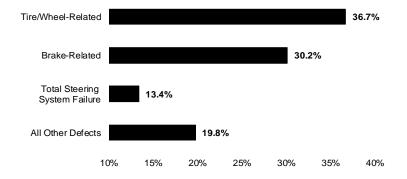
Adverse weather and road surface conditions negatively affect vehicle handling and driver sight. Interestingly, the vast majority of crashes occurred under no adverse conditions. This can be attributed to: 1) weather and roads being clear and dry most of the time and 2) drivers failing to use caution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

Weather Condition	Crashes	Fatalities
No Adverse Conditions	96,317 (75.0%)	973 (81.8%)
Rain/Rain & Fog	20,213 (15.7%)	157 (13.2%)
Snow/Sleet/Freezing Rain	9,802 (7.6%)	30 (2.5%)
Fog/Smoke, Etc.	781 (0.6%)	14 (1.2%)
Other	1,307 (1.0%)	16 (1.3%)
TOTAL	128,420 (100.0%)	1,190 (100.0%)

Road Surface Condition	Crashes	Fatalities
Dry	87,303 (68.0%)	909 (76.4%)
Wet	28,092 (21.9%)	226 (19.0%)
Snow/Slush	7,903 (6.2%)	27 (2.3%)
Ice/Ice Patches	4,468 (3.5%)	18 (1.5%)
Other	654 (0.5%)	10 (0.8%)
TOTAL	128,420 (100.0%)	1,190 (100.0%)

Crashes Involving Vehicle Defects

Improperly-maintained vehicles can lead to crashes. In 2018, tire/wheel and brake-related failures again contributed to the majority of vehicle defect related crashes. The percentages in the graph below refer to the number of crashes involving vehicle defects.

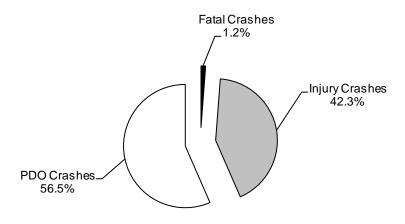


Vehicle Defect	Crashes
Tire/Wheel-Related	906
Brake-Related	744
Total Steering System Failure	330
Power Train Failure	225
Suspension	85
Unsecure/Shifted Trailer Load	53
Body/Doors/Hood, Etc.	33
Vehicle Lighting-Related	24
Other Known Defects	67

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. Drivers do not always anticipate these changes nor exercise the appropriate level of caution. 43 percent of work zone crashes in 2018 contained fatalities or injuries.



Total Crashes: 1,659

Total Fatally Injured: 23 (Workers Fatally Injured: 3)

Total Injured: 1,110

Work Zone Crashes—Vehicles Involved

Vehicle Type	State Hwy (Interstate)	State Hwy (Other)	Turnpike	Local Road
Passenger Car	588 (46.0%)	703 (49.1%)	93 (33.0%)	79 (53.7%)
Light Truck/SUV	432 (33.8%)	585 (40.8%)	100 (35.5%)	49 (33.3%)
Heavy Truck/Bus	234 (18.3%)	113 (7.9%)	82 (29.1%)	12 (8.2%)
Motorcycle	12 (0.9%)	16 (1.1%)	4 (1.4%)	4 (2.7%)
Other	12 (0.9%)	16 (1.1%)	3 (1.1%)	3 (2.0%)
TOTAL	1,278 (100.0%)	1,433 (100.0%)	282 (100.0%)	147 (100.0%)

Note: "State Highway (Other)" includes state-maintained roads that are not designated as interstates. Legally parked vehicles are not included in the above table.

Work Zone Crashes by Road Type—Five-Year Trends*

		Cras	hes	Fatal	lities
Year	Road Type	Number	% Total	Number	% Total
	State Hwy (Interstate)	530	28.7%	12	50.0%
	State Hwy (Other)	952	51.6%	7	29.2%
2014	Turnpike	244	13.2%	4	16.7%
	Local Road	119	6.5%	1	4.2%
	Other/Unknown Road	0	0.0%	0	0.0%
	TOTAL	1,845	100.0%	24	100.0%
	State Hwy (Interstate)	610	31.5%	4	17.4%
	State Hwy (Other)	962	49.7%	13	56.5%
2015	Turnpike	264	13.6%	5	21.7%
	Local Road	99	5.1%	1	4.4%
	Other/Unknown Road	0	0.0%	0	0.0%
	TOTAL	1,935	100.0%	23	100.0%
	State Hwy (Interstate)	660	31.8%	4	25.0%
	State Hwy (Other)	971	46.8%	9	56.3%
2016	Turnpike	348	16.8%	1	6.3%
	Local Road	95	4.6%	2	12.5%
	Other/Unknown Road	1	0.1%	0	0.0%
	TOTAL	2,075	100.0%	16	100.0%
	State Hwy (Interstate)	721	40.6%	12	63.2%
	State Hwy (Other)	778	43.8%	4	21.1%
2017	Turnpike	186	10.5%	2	10.5%
	Local Road	93	5.2%	1	5.3%
	Other/Unknown Road	0	0.0%	0	0.0%
	TOTAL	1,778	100.0%	19	100.0%
	State Hwy (Interstate)	650	39.2%	13	56.5%
	State Hwy (Other)	759	45.8%	9	39.1%
2018	Turnpike	159	9.6%	0	0.0%
	Local Road	91	5.5%	1	4.4%
	Other/Unknown Road	0	0.0%	0	0.0%
	TOTAL	1,659	100.0%	23	100.0%

Note: "State Highway (Other)" includes state-maintained roads that are not designated as interstates.

^{*}Crashes and fatalities on this page occurring at locations involving multiple road types are listed once, ranked from highest class to lowest: Interstate/Turnpike, Non-Interstate State Road, and then Local.

Crashes with Roadside Objects and Animals

Unfortunately, roadside objects were 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 no matter the sequence of harmful events.

Roadside Object	Crashes	% Total	Fatalities	% Total
Hit Bridge	626	0.5%	10	0.8%
Hit Building	1,343	1.1%	17	1.4%
Hit Culvert	754	0.6%	14	1.2%
Hit Curb	3,613	2.8%	43	3.6%
Hit Ditch	3,265	2.5%	32	2.7%
Hit Embankment	6,565	5.1%	89	7.5%
Hit Fence or Wall	2,708	2.1%	33	2.8%
Hit Fire Hydrant	436	0.3%	2	0.2%
Hit Guiderail	7,184	5.6%	112	9.4%
Hit Impact Attenuator	180	0.1%	3	0.3%
Hit Mailbox(es)	1,318	1.0%	19	1.6%
Hit Median Barrier	5,068	4.0%	33	2.8%
Hit Other Fixed Object	4,164	3.2%	67	5.6%
Hit Parked Vehicle	7,907	6.2%	44	3.7%
Hit Rock(s) or Obstacle on Roadway	482	0.4%	3	0.3%
Hit Signal/Sign Support	2,619	2.0%	55	4.6%
Hit Snow Bank	129	0.1%	1	0.1%
Hit Temporary Construction Barrier	40	0.0%	2	0.2%
Hit Traffic Island or Channelization	207	0.2%	2	0.2%
Hit Tree(s) or Shrubs/Hedges	8,848	6.9%	208	17.5%
Hit Utility Pole(s)	8,745	6.8%	103	8.7%
E		1		
Hit Deer	4,149	3.2%	12	1.0%
Hit Other Animal	220	0.2%	0	0.0%

Note: "% Total" lists the percentage compared to *all* crashes or fatalities, not only the ones listed in this table. Also note that a single crash can involve a collision with multiple objects.

—WHERE THEY HAPPENED—

Crashes by Road Type***

	State Hwy (Interstate)	State Hwy (Other)	Turnpike	Local Road	Other
Crashes	11,477	82,559	2,709	31,664	11
Persons Fatally Injured	91	893	14	192	0
Persons Injured	6,433	52,278	1,263	18,255	7
Miles of Maintained Road	1,374	39,188	554	80,218	
100 MVM* Traveled	201.1	582.6	63.3	169.3	
Crashes/MVM*	0.57	1.42	0.43	1.87	
Persons Fatally Injured/100 MVM*	0.45	1.53	0.22	1.13	
Persons Injured/MVM*	0.32	0.90	0.20	1.08	

^{*} MVM = million vehicle-miles

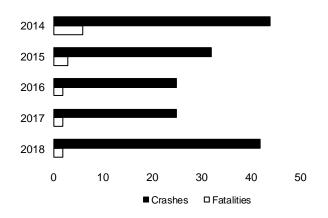
Note: "State Highway (Other)" includes state-maintained roads that are not designated as interstates. The road mileage and MVM data are from the 2017 Highway Performance Monitoring System (HPMS) package and reflects 2017 length and travel activity data. Ramps are included as part of the roadway to which it is connected.

***Crashes, fatalities and injuries on this page occurring at locations involving multiple road types are listed once, ranked from highest class to lowest: Interstate/Turnpike, Non-Interstate State Road, and then Local.

All Crashe

Crashes Between Trains and Other Vehicles—Five-Year Trends

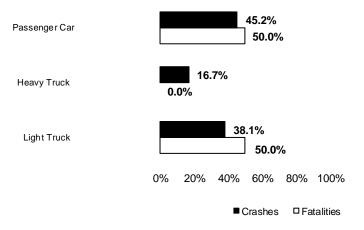
Motor vehicle/train crashes make up a very small percentage of total crashes. In the last five years, only 15 fatalities have occurred in this type of crash. In 2018, two fatalities occurred.



Year	Crashes	Fatalities
2014	44	6
2015	32	3
2016	25	2
2017	25	2
2018	42	2

Train/Vehicle Crashes by Vehicle Type

Passenger cars, light trucks, vans, and SUVs were the predominant vehicle types involved in crashes with trains in 2018. In 2018, heavy truck involvement with trains increased to 7 crashes from 3 in 2017.



Vehicle Type	Crashes	Fatalities
Passenger Car	19	1
Light Truck	16	1
Heavy Truck	7	0
Bicycle	0	0
Commercial Bus	0	0
Motorcycle	0	0
School Bus	0	0
Unknown	0	0
TOTAL	42	2

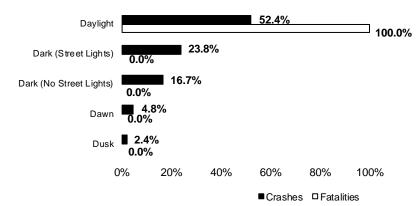
All Crashes

Train/Vehicle Crashes by Road Type*

Road Type	Crashes	Fatalities
Local Road	25	1
State Hwy (Other)	17	1
TOTAL	42	2

*Crashes and fatalities on this page occurring at locations involving multiple road types are listed once, ranked from highest class to lowest: Interstate/Turnpike, Non-Interstate State Road, and then Local.

Train/Vehicle Crashes by Light Level



Light Level	Crashes	Fatalities
Daylight	22	2
Dark (Street Lights)	10	0
Dark (No Street Lights)	7	0
Dawn	2	0
Dusk	1	0
TOTAL	42	2

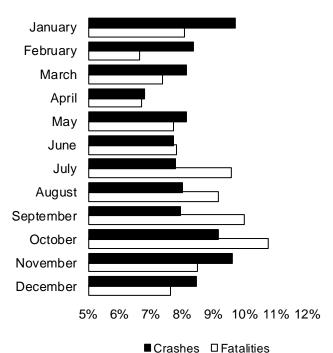
Train/Vehicle Crashes by County

Allegheny 4 0 Berks 2 0 Blair 1 0 Bucks 1 0 Carbon 1 0 Cumberland 1 0 Delaware 2 0 Erie 3 1 Fayette 1 0 Jefferson 1 0 Juniata 1 0 Lancaster 2 0 Lehigh 2 0	County	Crashes	Fatalities
Berks 2 0 Blair 1 0 Bucks 1 0 Carbon 1 0 Cumberland 1 0 Delaware 2 0 Erie 3 1 Fayette 1 0 Jefferson 1 0 Juniata 1 0 Lancaster 2 0 Lehigh 2 0	Adams	1	C
Blair 1 (a) Bucks 1 (a) Carbon 1 (a) Cumberland 1 (a) Delaware 2 (a) Erie 3 1 Fayette 1 (a) Jefferson 1 (a) Juniata 1 (a) Lancaster 2 (a) Lehigh 2 (a)	Allegheny	4	C
Bucks 1 0 Carbon 1 0 Cumberland 1 0 Delaware 2 0 Erie 3 1 Fayette 1 0 Jefferson 1 0 Juniata 1 0 Lancaster 2 0 Lehigh 2 0	Berks	2	C
Carbon 1 0 Cumberland 1 0 Delaware 2 0 Erie 3 1 Fayette 1 0 Jefferson 1 0 Juniata 1 0 Lancaster 2 0 Lehigh 2 0	Blair	1	C
Cumberland 1 0 Delaware 2 0 Erie 3 1 Fayette 1 0 Jefferson 1 0 Juniata 1 0 Lancaster 2 0 Lehigh 2 0	Bucks	1	(
Delaware 2 0 Erie 3 1 Fayette 1 0 Jefferson 1 0 Juniata 1 0 Lancaster 2 0 Lehigh 2 0	Carbon	1	C
Erie 3 1 Fayette 1 0 Jefferson 1 0 Juniata 1 0 Lancaster 2 0 Lehigh 2 0	Cumberland	1	C
Fayette 1 0 Jefferson 1 0 Juniata 1 0 Lancaster 2 0 Lehigh 2 0	Delaware	2	C
Jefferson 1 0 Juniata 1 0 Lancaster 2 0 Lehigh 2 0	Erie	3	1
Juniata10Lancaster20Lehigh20		1	C
Lancaster 2 (Lehigh 2		1	C
Lehigh 2 (Juniata	1	C
	Lancaster	2	C
Luzerne 3 (Lehigh	2	(
	Luzerne	3	(

County	Crashes	Fatalities
Mifflin	1	0
Montgomery	5	1
Northumberland	2	0
Philadelphia	1	0
Washington	3	0
Wayne	1	0
York	3	0
Butler	0	0
Cambria	0	0
Cameron	0	0
Centre	0	0
TOTAL	42	2

—WHEN THEY HAPPENED—

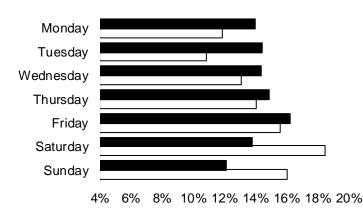
Crashes by Month



Month	Crashes	Fatalities
January	12,501 (9.7%)	96 (8.1%)
February	10,740 (8.4%)	79 (6.6%)
March	10,457 (8.1%)	88 (7.4%)
April	8,727 (6.8%)	80 (6.7%)
May	10,479 (8.2%)	92 (7.7%)
June	9,921 (7.7%)	93 (7.8%)
July	10,028 (7.8%)	114 (9.6%)
August	10,302 (8.0%)	109 (9.2%)
September	10,226 (8.0%)	119 (10.0%)
October	11,777 (9.2%)	128 (10.8%)
November	12,371 (9.6%)	101 (8.5%)
December	10,891 (8.5%)	91 (7.7%)
TOTAL	128,420 (100.0%)	1,190 (100.0%)

Crashes by Day of Week

More crashes occurred on Thursday and Friday. The number of fatalities on weekends (Saturday and Sunday) is proportionally greater than the number of crashes. This could be attributed to alcohol use. (See *Victims of Fatal Crashes by Day of Week*, page 29).

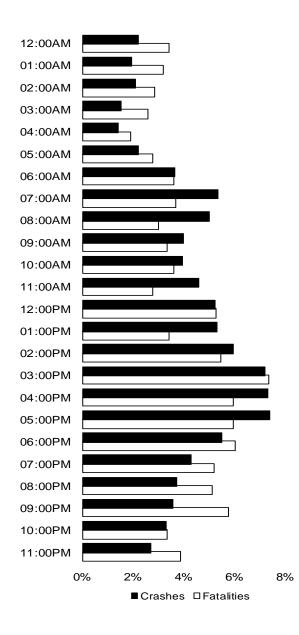


Day	Crashes	Fatalities
Monday	17,993 (14.0%)	141 (11.9%)
Tuesday	18,556 (14.5%)	129 (10.8%)
Wednesday	18,490 (14.4%)	156 (13.1%)
Thursday	19,151 (14.9%)	167 (14.0%)
Friday	20,899 (16.3%)	186 (15.6%)
Saturday	17,713 (13.8%)	220 (18.5%)
Sunday	15,618 (12.2%)	191 (16.1%)
TOTAL	128,420 (100.0%)	1,190 (100.0%)

■ Crashes □ Fatalities

Crashes by Hour of Day

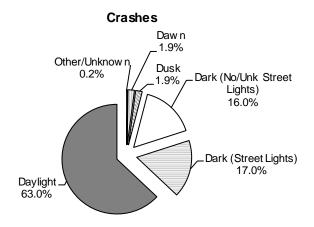
Some hours of the day are more dangerous than others with regard to crashes and fatalities. Not surprisingly, crashes and fatalities were higher during peak traffic times. Some hours of the day experience a low percentage of crashes, but they are much more deadly. For example, only 3.6% of all crashes in 2018 occurred in the 9:00 PM hour, but 5.8% of all fatalities —the fifth highest percentage—occurred then. The higher volume of traffic itself is a factor during peak traffic hours, particularly the rush-hours.



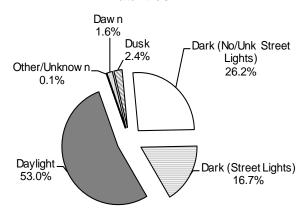
Hour	Crashes	Fatalities
12:00AM	2,832	41
01:00AM	2,492	38
02:00AM	2,689	34
03:00AM	1,990	31
04:00AM	1,829	23
05:00AM	2,821	33
06:00AM	4,692	43
07:00AM	6,878	44
08:00AM	6,450	36
09:00AM	5,141	40
10:00AM	5,103	43
11:00AM	5,939	33
12:00PM	6,736	63
01:00PM	6,838	41
02:00PM	7,697	65
03:00PM	9,271	88
04:00PM	9,411	71
05:00PM	9,528	71
06:00PM	7,103	72
07:00PM	5,540	62
08:00PM	4,786	61
09:00PM	4,614	69
10:00PM	4,256	40
11:00PM	3,476	46

Crashes by Light Level

In 2018, 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, fatalities in 2018 occurred slightly less often during non-daylight hours (dark and dusk/dawn conditions). If 2018 fatalities per 1000 crashes are compared (Daylight — 7.8 fatalities per 1000 crashes versus Non-Daylight — 11.8 fatalities per 1000 crashes), it is apparent that non-daylight crashes resulted in fatalities more often than daylight crashes.



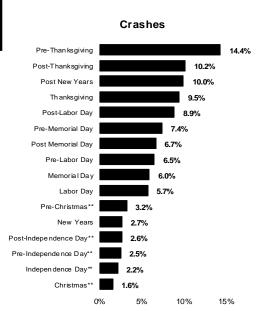
Fatalities



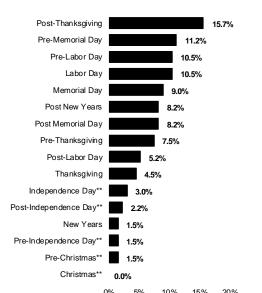
Light Level	Crashes	Fatalities
Daylight	80,862	631
Dark (Street Lights)	21,845	199
Dark (No/Unk Street Lights)	20,552	312
Dusk	2,489	28
Dawn	2,408	19
Other/Unknown	264	1
TOTAL	128,420	1,190

Crashes by Holiday

Crashes increased during holiday periods due to the volume of traffic on the roadway. Many times the weekend before and the weekend after the holiday have nearly as many crashes and fatalities, and sometimes more. The graphs below illustrate the ranking in descending order, of total crashes and fatalities, respectively, for each holiday period. The table shows a breakdown of crashes and fatalities for each holiday period in 2018.



Period*	Crashes	Fatalities
New Years	405	2
Post New Years	1,507	11
Pre-Memorial Day	1,121	15
Memorial Day	898	12
Post Memorial Day	1,007	11
Pre-Independence Day**	379	2
Independence Day**	326	2 4 3
Post-Independence Day**	398	3
Pre-Labor Day	987	14
Labor Day	864	14
Post-Labor Day	1,343	7
Pre-Thanksgiving	2,164	10
Thanksgiving	1,427	6
Post-Thanksgiving	1,532	21
Pre-Christmas**	487	2
Christmas**	239	0
TOTAL	15,084	134



Fatalities

- * See Holidays under **Definitions** for explanation of pre- and post-holiday weekends.
- ** Not part of a holiday weekend in 2018.

Drivers

Drivers Overview

Every traffic crash involves 3 elements: the driver, roadway, 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 older 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. Older 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 to be big contributors to fatal crashes.

		Fatal
Contributing Factor	Crashes	Crashes
Speed-Related	32,710	397
Drinking Driver	8,519	150
Improper Turning-Related	12,871	76
Careless/Illegal Passing	4,848	68
Distracted Driver	14,292	63
Proceeded Without Clearance	8,895	40
Drowsy Drivers	2,533	15
Tailgating	7,310	11

Note: Drinking driver and drowsy driver factors determined from the driver's condition field.

Single and Multiple Vehicle Crashes of Young and Older Drivers

As the table below shows, older drivers are over-represented in multiple vehicle crashes, due in part to the loss of physical and cognitive abilities. Younger drivers are also over-represented in multi-vehicle crashes as younger drivers are more easily distracted while driving.

Number of Vehicles	All Drivers	Young Drivers (16-21)	Older Drivers (65-74)	Older Drivers (75+)
Single	44.8%	36.3%	21.3%	22.0%
Vehicle Crash	57,414 crashes	9,710 crashes	3,003 crashes	1,866 crashes
Multiple	55.2%	63.7%	78.7%	78.0%
Vehicle Crash	70,854 crashes	17,029 crashes	11,108 crashes	6,617 crashes

Drivers in Crashes by Age Group

Looking at the 2018 Pennsylvania driver data, as driver age groups increased in age, the percentage of Pennsylvania total drivers involved in crashes within each age group decreased considerably. Note the percentage of 16-year old drivers involved in crashes. This number is significantly lower than other young driver age groups due to a law enacted in December 1999 that required a mandatory six month waiting period between obtaining a Learner's Permit and testing for licensure. It also reflected the limited time 16-year old drivers used the roads and the more controlled situations in which they are permitted to drive during the permit process. Driver inexperience and less cautious driving often are attributed characteristics given to the reason all young driver ages have higher rates.

Age Group	PA Drivers Involved in Crashes	*PA Total Drivers	% Involved in Crashes
16	1,841	41,995	4.4%
17	4,663	106,318	4.4%
18	5,109	116,831	4.4%
19	5,088	125,174	4.1%
20	4,686	127,983	3.7%
21	4,905	128,241	3.8%
22-24	14,954	401,904	3.7%
25-29	22,976	728,691	3.2%
30-39	34,931	1,448,195	2.4%
40-54	40,796	2,160,130	1.9%
55-59	12,806	850,775	1.5%
60-64	10,696	832,153	1.3%
65-69	7,925	700,146	1.1%
70-74	5,668	542,472	1.0%
75 and Over	8,290	814,033	1.0%
Unknown	51	N/A	N/A

^{*} PA Total Drivers includes total PA Licensed Drivers and PA Drivers who have their Learner's Permit (no driver's license).

Comparison of Young and Older Drivers by Crash Type

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

		Young Drivers	Older Drivers	Older Drivers
Crash Type	All Drivers	(16-21)	(65-74)	(75+)
Non-Collision	3.2%	2.3%	1.8%	1.1%
	4,090 crashes	619 crashes	248 crashes	93 crashes
Rear-End	21.8%	24.8%	27.6%	22.2%
	27,949 crashes	6,643 crashes	3,900 crashes	1,885 crashes
Head-On	4.0%	4.5%	5.4%	5.4%
	5,084 crashes	1,208 crashes	757 crashes	454 crashes
Backing Up	0.4%	0.3%	0.5%	0.6%
	446 crashes	66 crashes	70 crashes	50 crashes
Angle	26.8%	30.7%	39.1%	46.2%
	34,335 crashes	8,219 crashes	5,511 crashes	3,916 crashes
Sideswipe	6.3%	4.8%	7.0%	6.1%
	8,121 crashes	1,284 crashes	984 crashes	515 crashes
Hit Fixed Object	30.6%	29.7%	13.7%	14.4%
	39,192 crashes	7,933 crashes	1,935 crashes	1,222 crashes
Hit Pedestrian	3.1%	1.0%	2.4%	2.5%
	4,017 crashes	254 crashes	335 crashes	211 crashes
Other	3.9%	1.9%	2.6%	1.6%
	5,034 crashes	513 crashes	371 crashes	137 crashes

^{*} Crash Type refers to the first event of the crash which may or may not be an event of the drivers above.

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

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

	All Drivers	Young Drivers (16-21)	Older Drivers (65-74)	Older Drivers (75+)
Intersection	38.0%	41.1%	48.4%	53.3%
	48,736 crashes	10,977 crashes	6,828 crashes	4,520 crashes
Non-Intersection	62.0%	59.0%	51.6%	46.7%
	79,532 crashes	15,762 crashes	7,283 crashes	3,963 crashes

Alcohol-Related Crashes

Alcohol Overview

- ▶ In Pennsylvania, drinking and driving remains a top safety issue. In 2018, alcohol-related crashes decreased to 9,811 from 10,346 alcohol-related crashes in 2017. In 2018, alcohol-related fatalities increased to 331 from 293 alcohol-related fatalities in 2017.
- ▶ Of particular concern is the involvement of drinking drivers under the age of 21. 29% of the driver fatalities in the 16-20 age group were drinking drivers, up from 18% in 2017. Improvement in this age group is a very important need.
- ▶ Of equal focus is the 21 to 25 age group, in which 43% of the driver fatalities were drinking drivers. This age group had the worst percentage of all groups, and was up from 31% in 2017. The 26 to 30 age group decreased to 36% from 42% in 2017.
- ▶ In 2018, alcohol-related fatalities were 28% of the total traffic fatalities, less than in 2014 and 2015.
- ▶ Pennsylvania continues to take an aggressive posture to prevent and deter drinking and driving (particularly through the widespread use of sobriety checkpoints and saturation patrols).

2018 Briefs

- ▶ 331 people died in alcohol-related crashes.
- ▶ 90% of the alcohol-related occupant fatalities (drivers and passengers) were in the vehicle driven by the drinking driver; 75% were the drinking drivers themselves.
- ▶ 73% of the drinking drivers in traffic crashes were male.
- ▶ 67% of the alcohol-related crashes were during the hours of darkness, usually on weekends.
- ▶ On average each day, 27 alcohol-related traffic crashes occurred.
- ▶ On average each day, 0.9 persons were fatally injured in alcohol-related traffic crashes.
- ▶ On average each day, 17 persons were injured in alcohol-related traffic crashes.

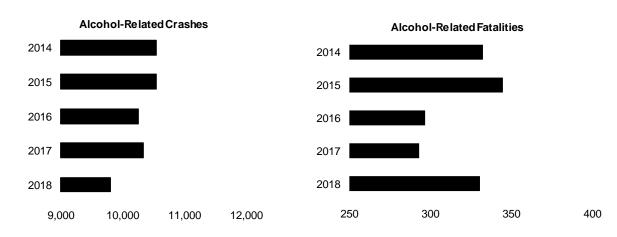
Alcohol Involvement in Crashes

Although alcohol-related crashes accounted for approximately 8% of the total crashes in 2018, they resulted in 28% of all persons fatally injured in crashes. Alcohol-related crashes were 4.7 times more likely to result in fatal injury than those not related to alcohol (3.1% of the alcohol-related crashes resulted in fatal injury, compared to 0.7% of crashes which were not alcohol-related). "PDO Crashes" in the table below refers to property damage only crashes.

	Fatal Crashes	Fatalities	Injury Crashes	Injuries	PDO Crashes
Alcohol-Related	307 (27.8%)	331 (27.8%)	4,665 (8.2%)	6,227 (8.0%)	4,839 (6.9%)
Non-Alcohol-Related	796 (72.2%)	859 (72.2%)	52,089 (91.8%)	72,007 (92.0%)	65,698 (93.1%)
TOTAL	1,103 (100.0%)	1,190 (100.0%)	56,754 (100.0%)	78,234 (100.0%)	70,537 (100.0%)

Alcohol-Related Crashes—Five-Year Trends

Alcohol-related crashes decreased in 2018, and were the lowest total in the last five years. Alcohol-related fatalities increased in 2018, and were the third lowest total in the last five years. Alcohol-related fatalities are trending downward.



	2014	2015	2016	2017	2018
Crashes	10,550	10,558	10,256	10,346	9,811
Fatal Crashes	311	321	270	280	307
Injury Crashes	5,377	5,274	4,911	4,908	4,665
PDO Crashes	4,862	4,963	5,075	5,158	4,839
Fatalities	333	345	297	293	331
Injuries	7,265	7,055	6,589	6,565	6,227
Fatal Crashes per 100,000					
Licensed Drivers	3.5	3.6	3.0	3.1	3.4
Fatalities per 100,000					
Licensed Drivers	3.7	3.9	3.3	3.3	3.7

Victims of Alcohol-Related Fatal Crashes

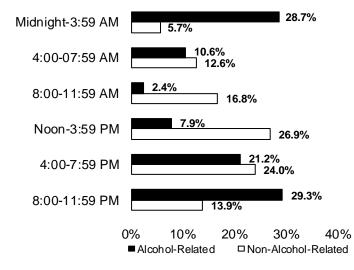
There were 273 driver and passenger fatalities in alcohol-related crashes in 2018, while 245 (90 %) were the drinking drivers or their passengers.

Persons Involved	Fatalities
Drivers	224
Drinking Drivers	204 (91.1%)
Non-Drinking Drivers	20 (8.9%)
Passengers	49
Passengers with Drinking Driver	41 (83.7%)
Passengers with Non-Drinking Driver	8 (16.3%)
Pedestrians	55
Drinking Pedestrian	41 (74.6%)
Non-Drinking Pedestrian	14 (25.5%)
TOTAL FATALITIES*	331

^{*}Includes 3 victims, status unknown

Victims of Fatal Crashes by Time of Day

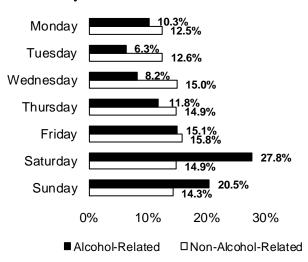
Alcohol-related crashes occurring between 8:00 PM and 4:00 AM produced the vast majority of fatalities (58% of alcohol-related fatalities). In contrast, over half of the fatalities (51%) from non-alcohol-related crashes resulted from crashes occurring between noon and 8:00 PM.



	Non-	
	Alcohol-	Alcohol-
Time of Occurrence	Related	Related
Midnight-3:59 AM	49	95
4:00-07:59 AM	108	35
8:00-11:59 AM	144	8
Noon-3:59 PM	231	26
4:00-7:59 PM	206	70
8:00-11:59 PM	119	97
Time Unknown	2	0
TOTAL FATALITIES	859	331

Victims of Fatal Crashes by Day of Week

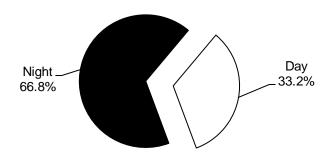
Under half (48%) of alcohol-related fatal crash victims were the result of crashes occurring on Saturday and Sunday, while fatal crash victims of non-alcohol-related crashes tended to be distributed more evenly throughout the work week with the fewest occurring on Monday and Tuesday.



	Non-	
	Alcohol-	Alcohol-
Day of Occurrence	Related	Related
Monday	107	34
Tuesday	108	21
Wednesday	129	27
Thursday	128	39
Friday	136	50
Saturday	128	92
Sunday	123	68
TOTAL FATALITIES	859	331

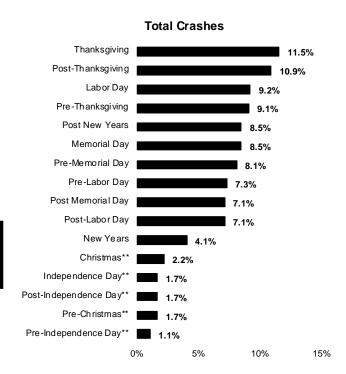
Alcohol-Related Crashes—Day vs. Night

66.8% of alcohol-related crashes occurred at night. The graph below shows the breakdown of alcohol-related crashes by day and night.



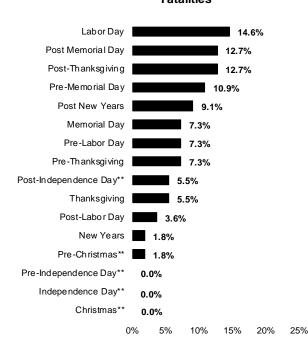
Alcohol-Related Holiday Crashes

In 2018, 10% of all holiday crashes involved alcohol use; however, 41% of fatalities that occurred during holiday weekends were related to alcohol use. (See *Crashes by Holiday*, page 22.)



Period*	Crashes	Fatalities
New Years	62	1
Post New Years	130	5
Pre-Memorial Day	124	6
Memorial Day	130	4
Post Memorial Day	109	7
Pre-Independence Day**	17	0
Independence Day**	26	0
Post-Independence Day**	26	3
Pre-Labor Day	112	4
Labor Day	141	8
Post-Labor Day	109	2
Pre-Thanksgiving	139	4
Thanksgiving	176	3
Post-Thanksgiving	166	7
Pre-Christmas**	26	1
Christmas**	34	0
TOTAL	1,527	55

Fatalities



- * See *Holidays* under **Definitions** for explanation of pre- and post-holiday weekends.
- ** Not part of a holiday weekend in 2018.

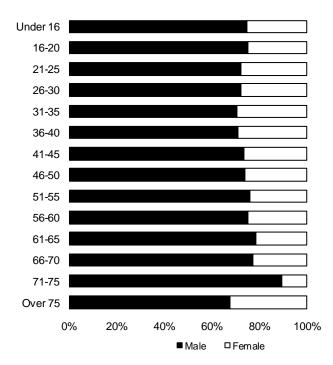
Driver Involvement in Alcohol-Related Crashes by Vehicle Type

Motorcyclists had the largest percentage of drinking drivers to total drivers; this is compared to the drivers of other types of vehicles. Drinking drivers of passenger cars, light trucks, vans, and sport utility vehicles were nearly equal to the average for drivers of all vehicle types. Bus and heavy truck drivers accounted for very few of the drinking drivers in crashes.

	Passenger Car		116,586
	Lt Trk/SUV/Van		80,591
Total Drivers in Crashes	Heavy Truck		7,826
210,108	Motorcycle		2,772
	Bus		937
	Other		1,396
	Passenger Car	5,600	(4.8% of total)
	Lt Trk/SUV/Van	3,580	(4.4% of total)
Drinking Drivers in Crashes	Heavy Truck	42	(0.5% of total)
9,585 (4.6% of total)	Motorcycle	288	(10.4% of total)
	Bus	1	(0.1% of total)
	Other	74	(5.3% of total)

Drinking Drivers in Crashes by Age and Sex

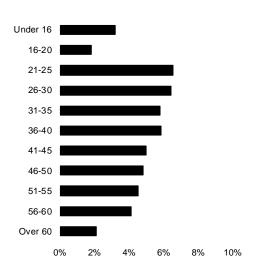
In 2018, roughly 3 out of 4 drinking drivers in crashes were male (across most age groups), with only slight variations among the age groups. The table below does not include an additional 60 drivers for whom age and/or sex were not known.



Age Group	Male	Female	Total
Under 16	3	1	4
16-20	312	102	414
21-25	1,329	502	1,831
26-30	1,174	447	1,621
31-35	840	350	1,190
36-40	724	294	1,018
41-45	547	195	742
46-50	554	192	746
51-55	528	163	691
56-60	431	141	572
61-65	280	76	356
66-70	150	44	194
71-75	78	9	87
Over 75	40	19	59
Total	6,990	2,535	9,525

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

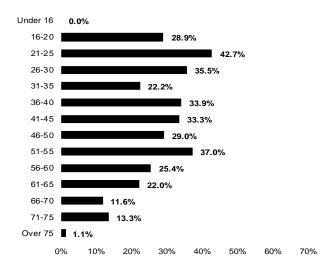
In 2018, as the table and graph below show, the two age groups from 21 to 30 had the highest percentage of drinking drivers within their respective age groups. After age 40, the percentage of drinking drivers within the succeeding age groups steadily declined. The Under 16 age group continues to be of particular concern, as it included 4 drinking drivers.



Age Group	Drinking Driver	Non-Drinking Driver
Under 16	4 (3.2%)	120 (96.8%)
16-20	415 (1.8%)	22,510 (98.2%)
21-25	1,834 (6.6%)	26,125 (93.4%)
26-30	1,623 (6.4%)	23,600 (93.6%)
31-35	1,193 (5.8%)	19,296 (94.2%)
36-40	1,021 (5.9%)	16,329 (94.1%)
41-45	743 (5.0%)	14,055 (95.0%)
46-50	747 (4.9%)	14,656 (95.2%)
51-55	691 (4.6%)	14,458 (95.4%)
56-60	572 (4.1%)	13,238 (95.9%)
Over 60	698 (2.1%)	32,087 (97.9%)

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

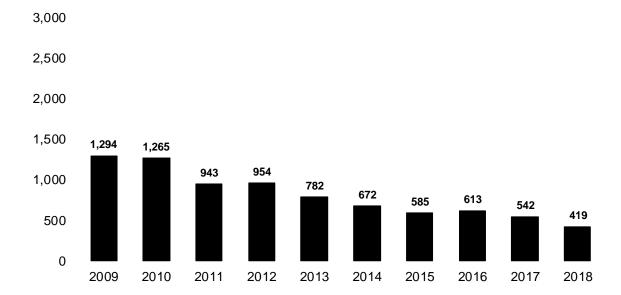
The graph below shows drinking driver fatalities as a percentage of total driver fatalities within each respective age group for 2018 crashes. The age group from 21 to 25 had the highest percentage, with 43% of the driver fatalities in this age group being a drinking driver. The 16-20 age group increased from 18.0% in 2017. In 2018, there were no drivers under the age of 16 who chose to combine alcohol usage and driving without a license.



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 declined each year. From 1997 until 2002, the amount of underage drinking drivers remained consistently high. From that point until 2015 there has been a downward trend with 2009, 2010, 2012 and 2016 disrupting the steady decrease.



Seat Belts, Child Safety Seats, and Air Bags

Restraints Overview

Safety Belts

- Pennsylvania's seat belt law requires that drivers and front seat passengers be properly buckled when riding in a passenger car, Class 1 and Class 2 truck, or motor home. Children age 8 and older, but under age 18, are required to be secured in a seat belt system anywhere in the vehicle due to the law becoming effective on February 21, 2003.
- A driver under the age of 18 may not operate a motor vehicle when the number of passengers exceeds the number
 of available seat belts in the vehicle.
- The combination of lap/shoulder seat belts, when used, reduces the risk of fatal injuries to front seat passenger car occupants by 45% and the risk of suspected minor-to-critical injuries by 50%. For light truck occupants, seat belts reduce the risk of fatal injuries by 60% and the risk of suspected minor -to-critical injuries 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 wore seat belts when riding in a motor vehicle, hundreds of lives in Pennsylvania alone would be saved (see page 36). Research shows that children are likely to be buckled 92% of the time when adults are buckled and only 72% of the time when adults are *not* buckled. Everyone should buckle up, every time!

Child Safety Seats

- Pennsylvania law requires that children under the age of 4 to be properly restrained in a child passenger restraint system when riding anywhere in a vehicle. Children under 2 must be secured in a rear-facing car seat until the child outgrows the maximum weight and height limits designated by the car seat manufacturer. Children age 4 up to age 8, are required to be in an appropriately fitting child booster seat when riding anywhere in a vehicle. Children from age 8 up to age 18 must be in a seat belt.
- Research shows that child safety seats, when properly installed, reduce the risk of fatal injury by 71% for infants and 54% for toddlers.
- 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 ages 2 to 3 should be kept rear-facing as long as possible, until they reach the top height or weight limit allowed by the car seat's manufacturer. Children ages 4 to 7 should be kept forward-facing with a harness until they reach the top height or weight limit allowed by the car seat's manufacturer. Children ages 8 to 12 should be kept in a booster seat until they are big enough to fit the seat belt properly, that is, the lap belt must lie snugly across the upper thighs and the shoulder belt should lie snugly across the shoulder and chest and not cross the neck or face.
- Children should ride in the rear seat whenever possible, and should always be properly buckled.

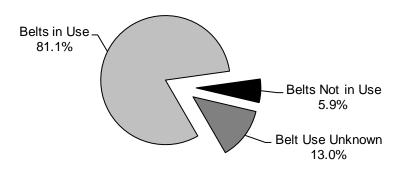
Air Bag Safety

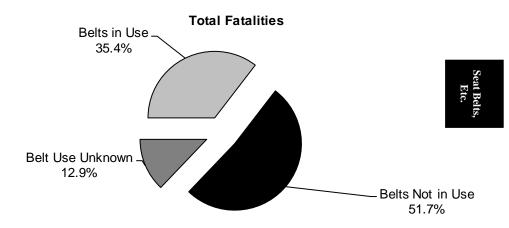
- Driver and front seat passenger air bags have been required in new passenger cars since 1998 and light trucks since 1999. However, air bags are supplemental protection devices. Everyone should still buckle up with both lap and shoulder belts on every trip.
- Child Safety
 - o Children age 12 and under 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.
 - o 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
 - o 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 collarbone away from the neck and cross over the breastbone.
 - 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 2018, as shown in the two pie graphs below, 81.1% of all people involved in crashes were wearing seat belts. 51.7% of all people who died in crashes were not wearing seat belts. The table at the bottom shows the total number of people involved in crashes in 2018 by severity of injury and belt use.

Total People Involved in Crashes





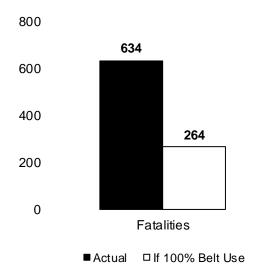
	Belts in Use	Belts Not in Use	Belt Use Unknown
Fatal Injury	272	397	99
Suspected Serious Injury	1,731	1,006	483
Suspected Minor Injury	24,235	3,266	2,532
Possible Injury	11,789	1,098	2,802
Unknown Severity	14,129	2,127	3,837
No Injury	169,822	8,199	25,814
TOTAL	221,978	16,093	35,567

Note: Vehicles involved include passenger cars, light trucks, SUVs, vans, and heavy trucks. "Belts Not Available" is included in "Belts Not In Use".

Seat Belt Use in Crashes—Impact on Fatalities and Injuries

The table and graph below display the estimated impact that seat belts worn 100% of the time would have on traffic fatalities and injuries. The numbers in parentheses, in the last row, are the estimated decreases in 2018 fatalities and injuries if 100% seat belt use was achieved. (*Note*: The data below is for passenger cars, small trucks, SUVs and vans.) 370 people would have survived if they had worn their belts.

		Injuries			
	Fatalities	Susp Ser	Susp Min	Possible	None
Belts Used	255	1,660	22,753	24,446	146,260
Belts Not Used	379	966	3,143	3,158	8,966
TOTAL	634	2,626	25,896	27,604	155,226
If 100% Belt Use	264	1,782	24,572	26,183	157,311
Net Increase/(Decrease)	(370)	(844)	(1,324)	(1,421)	2,085



Note: "No Belts" is included in "Belts Not Used".

Note: Starting in 2016, the data presented is for passenger cars, small trucks, SUVs and vans. Prior to 2016 only passenger cars were evaluated.

Seat Belt Use in Crashes—Historical Data

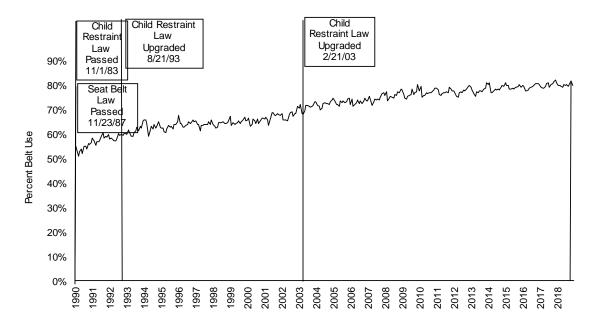
On November 1, 1983, Pennsylvania passed a primary law requiring that drivers secure children under age 4 in an approved child passenger restraint system when riding in a passenger car, Class I truck, Class II truck, classic motor vehicle, antique motor vehicle, or motor home registered in Pennsylvania. Children ages 1 to 4 could be in the back seat in a child safety belt in lieu of a child passenger restraint system. Fines began taking effect January 1, 1985.

On November 23, 1987, Pennsylvania passed a safety belt law. The law requires that drivers and front seat passengers of a passenger car, Class I and Class II trucks, or motor home wear a properly-adjusted and fastened safety belt. The driver is responsible for securing children ages 4 to 18 in a safety belt when riding in the front seat. This is a secondary violation. Fines began taking effect March 23, 1988.

Effective August 21, 1993, the child passenger restraint law was upgraded requiring that drivers (not just those with vehicles registered in Pennsylvania) secure a child up to age 4 in a child passenger restraint system when sitting anywhere in the vehicle.

Effective February 21, 2003, the child passenger restraint law was upgraded requiring that children ages 4 through 7 be in an appropriately fitting child booster seat and those children ages 8 through 17 be secured in a seat belt system whenever riding anywhere in a vehicle.

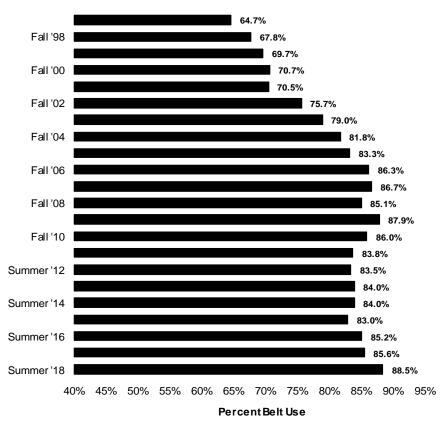
The graph below shows the percentage of seat belt users in Pennsylvania since 1983. A sharp upward trend was experienced in the year following the passage of the seat belt law. The recent trend shows that the usage rate is still on the rise in crashes.



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 in 2008 is slightly lower than the previous 2 years, most likely due to the redesign of the study methodology in 2008, that provided more detailed accounts.



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 4 in a child passenger restraint system while sitting anywhere in a vehicle. As shown in the table below (for 2014-2018 crashes involving children under age 4), the percentages of fatalities and injuries (within restraint type by row) were lower when restraints were used. From 2014-2018, 82% of the children under age 4 who were involved in crashes and restrained in a child seat sustained no injury.

			Injuries				
Child Restraint	Fatalities	Susp Ser	Susp Min	Possible	Unknown	No Injury	Persons
Child Seat In Use	16 (0.1%)	75 (0.4%)	473 (2.3%)	1,245 (6.0%)	1,852 (8.9%)	17,138 (82.4%)	20,799
No Restraint In Use	6 (0.3%)	15 (0.8%)	74 (4.1%)	180 (9.9%)	460 (25.3%)	1,087 (59.7%)	1,822
Other Restraint In Use	5 (0.1%)	10 (0.2%)	315 (5.0%)	377 (6.0%)	433 (6.9%)	5,137 (81.8%)	6,277

Note: "Child Seat Not In Use" and "Other Restraint Not In Use" have been combined into "No Restraint in Use".

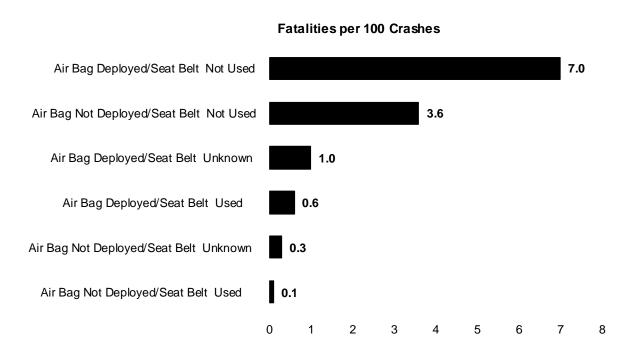
Etc.

Air Bag Deployment in Crashes—Injuries and Fatalities

Air bags are becoming more prevalent for vehicles in crashes due to the manufacturing laws of the late 1990s, however some vehicles in crashes still do not have airbags as there are still older vehicles in use. Additionally, not all seats in a vehicle have an air bag. 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.)

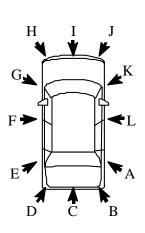
Passive Restaint	Seat Belt			Inju	ries			Total
Status	Status	Fatalities	Susp Ser	Susp Min	Possible	Unknown	No Injury	Persons
None	n/a	178 (0.2%)	747 (0.7%)	8,293 (7.8%)	5,896 (5.5%)	8,908 (8.4%)	82,351 (77.4%)	106,373
Air Bag Deployed	Used	184 (0.3%)	1,168 (2.1%)	10,934 (19.8%)	4,153 (7.5%)	6,854 (12.4%)	31,933 (57.8%)	55,226
Air Bag Deployed	Not Used	237 (4.8%)	547 (11.0%)	1,376 (27.7%)	348 (7.0%)	1,025 (20.6%)	1,433 (28.9%)	4,966
Air Bag Deployed	Unknown	38 (0.6%)	247 (4.2%)	863 (14.5%)	670 (11.3%)	1,445 (24.3%)	2,684 (45.1%)	5,947
Air Bag Not Deployed	Used	30 (0.0%)	225 (0.3%)	6,668 (8.5%)	3,462 (4.4%)	4,056 (5.2%)	63,660 (81.5%)	78,101
Air Bag Not Deployed	Not Used	62 (2.1%)	160 (5.5%)	696 (23.9%)	181 (6.2%)	471 (16.2%)	1,340 (46.1%)	2,910
Air Bag Not Deployed	Unknown	7 (0.2%)	51 (1.3%)	304 (7.8%)	219 (5.6%)	545 (14.0%)	2,765 (71.1%)	3,891
Unknown If Deployed	n/a	23 (0.9%)	29 (1.2%)	268 (11.0%)	169 (6.9%)	312 (12.8%)	1,639 (67.2%)	2,440

In crashes that are severe enough to deploy an airbag (for vehicles and seats so equipped), the data below shows that you are 12 times more likely to die if you are not wearing a seat belt (7.0 fatalities vs. 0.6 fatalities per 100 crashes).



Air Bag Deployment by Initial Vehicle Impact Point

Most air bags are designed to deploy in frontal impacts, but side impact air bags are also common for newer model year vehicles. The table below shows the initial vehicle impact points for all 2018 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 1530 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)	2,541	844	623 (42.1%)	858 (57.9%)	216
Right Rear (B)	5,544	2,001	767 (24.7%)	2,339 (75.3%)	437
Center Rear (C)	29,547	11,488	1,530 (9.6%)	14,357 (90.4%)	2,172
Left Rear (D)	5,203	1,878	613 (21.1%)	2,289 (78.9%)	423
Left Side Rear (E)	2,595	809	598 (39.5%)	915 (60.5%)	273
Left Side Center (F)	6,766	2,001	2,095 (52.5%)	1,898 (47.5%)	772
Left Side Forward (G)	6,940	2,299	1,698 (42.7%)	2,277 (57.3%)	666
Left Front (H)	26,749	7,961	7,933 (47.9%)	8,639 (52.1%)	2,216
Center Front (I)	67,018	17,363	25,852 (59.1%)	17,899 (40.9%)	5,904
Right Front (J)	24,209	7,053	7,417 (49.8%)	7,465 (50.2%)	2,274
Right Side Forward (K)	10,755	3,466	2,762 (44.4%)	3,454 (55.6%)	1,073
Right Side Center (L)	8,289	2,567	2,549 (52.5%)	2,311 (47.6%)	862
Other	3,987	1,120	764 (40.9%)	1,104 (59.1%)	999
None	3,537	1,206	420 (21.0%)	1,582 (79.0%)	329
TOTAL	203,680	62,056	55,621 (45.2%)	67,387 (54.8%)	18,616

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 suspected serious and minor injuries, and even fatal injury, during crashes involving air bag deployment. (Percentages listed in the table are by age group.)

Seat Belts	Used						
				Injuries			Total
Age Group	Fatalities	Susp Ser	Susp Min	Possible	Unknown	No Injury	Persons
0-4	0 (0.0%)	1 (1.3%)	17 (22.4%)	4 (5.3%)	9 (11.8%)	45 (59.2%)	76
5-8	1 (0.4%)	3 (1.2%)	54 (20.8%)	32 (12.3%)	31 (11.9%)	139 (53.5%)	260
9-12	1 (0.2%)	11 (2.1%)	107 (20.2%)	55 (10.4%)	58 (10.9%)	298 (56.2%)	530
13-64	105 (0.2%)	912 (1.9%)	9,130 (19.1%)	3,480 (7.3%)	5,555 (11.6%)	28,616 (59.9%)	47,798
65-74	32 (0.9%)	118 (3.1%)	898 (23.7%)	320 (8.5%)	678 (17.9%)	1,736 (45.9%)	3,782
75+	45 (1.6%)	121 (4.4%)	726 (26.3%)	258 (9.3%)	520 (18.8%)	1,094 (39.6%)	2,764
Total	184 (0.3%)	1,166 (2.1%)	10,932 (19.8%)	4,149 (7.5%)	6,851 (12.4%)	31,928 (57.8%)	55,210

Seat Belts	Not Used						
				Injuries			Total
Age Group	Fatalities	Susp Ser	Susp Min	Possible	Unknown	No Injury	Persons
0-4	0 (0.0%)	1 (3.6%)	4 (14.3%)	5 (17.9%)	6 (21.4%)	12 (42.9%)	28
5-8	0 (0.0%)	2 (7.7%)	9 (34.6%)	1 (3.9%)	5 (19.2%)	9 (34.6%)	26
9-12	0 (0.0%)	3 (13.0%)	10 (43.5%)	3 (13.0%)	4 (17.4%)	3 (13.0%)	23
13-64	186 (4.1%)	491 (10.8%)	1,268 (27.9%)	323 (7.1%)	937 (20.6%)	1,342 (29.5%)	4,547
65-74	16 (8.0%)	33 (16.5%)	47 (23.5%)	10 (5.0%)	48 (24.0%)	46 (23.0%)	200
75+	35 (22.2%)	19 (12.0%)	40 (25.3%)	10 (6.3%)	28 (17.7%)	26 (16.5%)	158
Total	237 (4.8%)	549 (11.0%)	1,378 (27.7%)	352 (7.1%)	1,028 (20.6%)	1,438 (28.9%)	4,982

Peds &

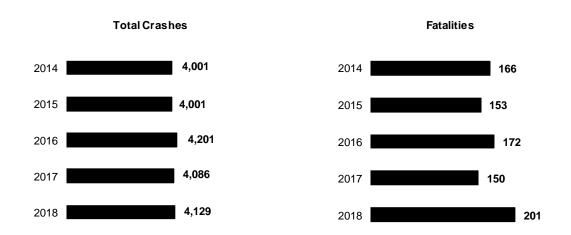
Pedestrian and Bicycle Crashes

Pedestrian and Bicycles Overview

- ▶ Pedestrian-related crashes represent 3.2% of the total reported traffic crashes; however, they account for 16.9% of all traffic crash fatalities. (See also *Pennsylvania County Crashes*, pages 62, 63, and 68.)
- ▶ Bicycle crashes represent 0.8% of the total reported crashes and 1.5% of all traffic fatalities. Although these percentages are small, they still represent 18 bicyclist fatalities and 962 injuries in 2018.

Pedestrian Crashes—Five-Year Trends

Reported crashes involving pedestrians have increased in the last year. Pedestrian fatalities have fluctuated over the same period, and have increased in the past year.

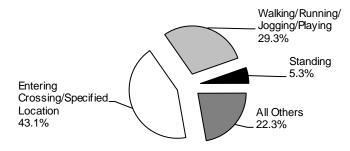


Year	Total Crashes	Fatalities
2014	4,001	166
2015	4,001	153
2016	4,201	172
2017	4,086	150
2018	4,129	201

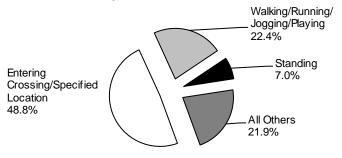
Pedestrian-Related Crashes

Referring to the table and pie charts below, many pedestrian crashes and fatalities occurred while pedestrians were "entering crossing/specified location". This means that a pedestrian was most likely crossing the street at an intersection, mid-block crossing, or driveway entrance.

Top Crash-Related Pedestrian Actions



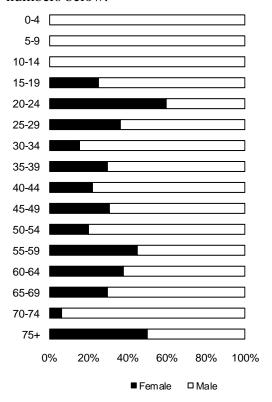
Top Fatal Pedestrian Actions



Pedestrian Action	Fatalities	Pedestrians Involved
Entering Crossing/Specified Location	98	1,875
Walking/Running/Jogging/Playing	45	1,275
Working	5	68
Pushing a Vehicle	0	3
Working on Vehicle	3	25
Standing	14	232
Approaching/Leaving a Vehicle	5	116
Other/Unknown	31	757
Total	201	4,351

Pedestrian Fatalities by Age and Sex

Pedestrians ages 75 and over represent a sizable portion of pedestrian fatalities as displayed in the chart below. Overall, male pedestrian fatalities consisted of 67% of all pedestrian fatalities, and were less than in 2017 (70%). *Note:* Pedestrians of unknown sex are not included in the numbers below.



Age Group	Female	Male	Total
0-4	0	2	2
5-9	0	2	2
10-14	0	2	2
15-19	1	3	4
20-24	6	4	10
25-29	4	7	11
30-34	2	11	13
35-39	3	7	10
40-44	2	7	9
45-49	4	9	13
50-54	3	12	15
55-59	9	11	20
60-64	8	13	21
65-69	3	7	10
70-74	1	15	16
75 and over	20	20	40
Unknown	0	3	3
TOTAL	66	135	201

Pedestrian Injury Severity by Municipality Type

The majority of pedestrian injuries occurred in cities; however, the percentage of pedestrian fatalities in townships was higher, perhaps due to higher vehicle speeds on rural roads.

Municipality Type	Fatalities	Injuries	Non-Injury	Total
City	72 (35.8%)	2,596 (63.5%)	36 (60.0%)	2,704 (62.2%)
Borough/Town	42 (20.9%)	668 (16.3%)	12 (20.0%)	722 (16.6%)
Township	87 (43.3%)	826 (20.2%)	12 (20.0%)	925 (21.3%)
Other	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
TOTAL	201 (100.0%)	4,090 (100.0%)	60 (100.0%)	4,351 (100.0%)

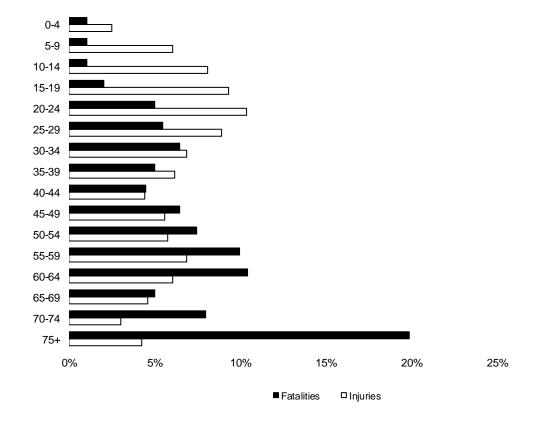
Note: "Other" includes colleges/universities, parks, etc.

Pedestrian Fatalities and Injuries by Age

Elderly pedestrians, although involved in fewer pedestrian crashes, are more likely to be fatally injured if struck by a moving vehicle. Younger pedestrians (age 19 and under) account for 26% of the pedestrian injuries.

Note: The totals in the table do not include an additional 60 pedestrians who were not fatally injured or injured or where their injury severity was unknown.

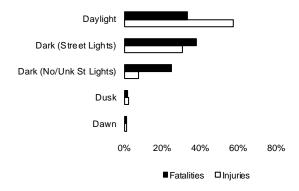
Pedestrian Age	Fatalities	Injuries
0-4	2 (1.0%)	101 (2.5%)
5-9	2 (1.0%)	248 (6.1%)
10-14	2 (1.0%)	330 (8.1%)
15-19	4 (2.0%)	381 (9.3%)
20-24	10 (5.0%)	424 (10.4%)
25-29	11 (5.5%)	364 (8.9%)
30-34	13 (6.5%)	280 (6.9%)
35-39	10 (5.0%)	251 (6.1%)
40-44	9 (4.5%)	180 (4.4%)
45-49	13 (6.5%)	228 (5.6%)
50-54	15 (7.5%)	236 (5.8%)
55-59	20 (10.0%)	280 (6.9%)
60-64	21 (10.5%)	248 (6.1%)
65-69	10 (5.0%)	188 (4.6%)
70-74	16 (8.0%)	123 (3.0%)
75 and over	40 (19.9%)	174 (4.3%)
Unknown	3 (1.5%)	54 (1.3%)
TOTAL	201 (100.0%)	4,090 (100.0%)



Peds & Bikes

Pedestrian Fatalities and Injuries by Light Level

The majority of pedestrians were injured in daylight (57.8%), but more pedestrian fatalities occurred during non-daylight hours (66.7%). As shown in the bar chart, pedestrians were more likely to be fatally injured if struck in a non-daylight crash as compared to a day crash.

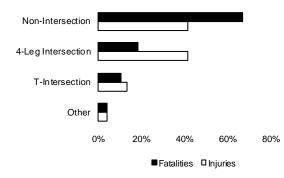


Light Level	Fatalities	Injuries
Dawn	3 (1.5%)	61 (1.5%)
Daylight	67 (33.3%)	2,363 (57.8%)
Dark (Street Lights)	77 (38.3%)	1,249 (30.5%)
Dark (No/Unk St Lights)	50 (24.9%)	303 (7.4%)
Dusk	4 (2.0%)	102 (2.5%)
Other/Unknown	0 (0.0%)	12 (0.3%)
TOTAL	201 (100.0%)	4,090 (100.0%)

Note: The totals in the table do not include an additional 60 pedestrians who were not fatally injured or injured or where their injury severity was unknown.

Pedestrian Fatalities and Injuries by Intersection Type

67.2% of pedestrian fatalities and 41.3% of pedestrian injuries occurred in areas other than intersections. "Non-intersections" as used below includes mid-block crossings, driveway crossings, etc.

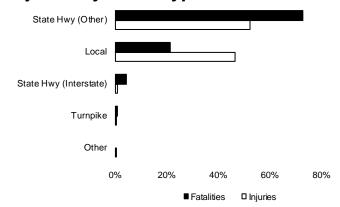


Intersection	Fatalities	Injuries
Non-Intersection	135 (67.2%)	1,691 (41.3%)
4-Leg Intersection	37 (18.4%)	1,698 (41.5%)
T-Intersection	21 (10.5%)	546 (13.4%)
Other	8 (4.0%)	155 (3.8%)
TOTAL	201 (100.0%)	4,090 (100.0%)

Note: The totals in the table do not include an additional 60 pedestrians who were not fatally injured or injured or where their injury severity was

Pedestrian Fatalities and Injuries by Road Type*

As the graph shows, under half of pedestrians were injured on local roads, whereas the majority of pedestrian fatalities occurred on non-interstate state roadways.



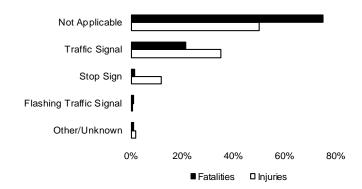
Note: The totals in the table do not include an additional 60 pedestrians who were not fatally injured or injured or where their injury severity was unknown.

Road Type	Fatalities	Injuries
State Hwy (Other)	147 (73.1%)	2,144 (52.4%)
Local	43 (21.4%)	1,900 (46.5%)
State Hwy (Interstate)	9 (4.5%)	40 (1.0%)
Turnpike	2 (1.0%)	5 (0.1%)
Other	0 (0.0%)	1 (0.0%)
TOTAL	201 (100.0%)	4,090 (100.0%)

^{*}Crashes, fatalities and injuries on this page occurring at locations involving multiple road types are listed once, ranked from highest class to lowest: Interstate/Turnpike, Non-Interstate State Road, and then Local.

Pedestrian Fatalities and Injuries

As the graph shows, most pedestrian fatalities and injuries occurred in areas without traffic control devices (TCDs). These areas accounted for 151 pedestrian fatalities and 2,059 injuries.



Note: The totals in the table do not include an additional 60 pedestrians who were not fatally injured or injured or where their injury severity was unknown.

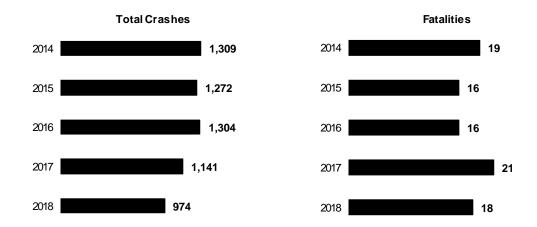
Traffic Control Device	Fatalities	Injuries
Not Applicable	151 (75.1%)	2,059 (50.3%)
Traffic Signal	43 (21.4%)	1,443 (35.3%)
Stop Sign	3 (1.5%)	487 (11.9%)
Flashing Traffic Signal	2 (1.0%)	19 (0.5%)
Other/Unknown	2 (1.0%)	82 (2.0%)
TOTAL	201 (100.0%)	4,090 (100.0%)

Peds & Bikes

Bicycle Crashes—Five-Year Trends

The total number of bicycle crashes decreased in 2018, but remained very consistent over the last 5 years; bicycle fatalities have fluctuated over the same time period, however, and in 2015 and 2016 were the lowest.

Year	Total Crashes	Fatalities
2014	1,309	19
2015	1,272	16
2016	1,304	16
2017	1,141	21
2018	974	18



Bicycle Fatalities and Injuries by Age

Children ages 5 to 14 were the most vulnerable to fatal injury and injury while riding a bicycle. Over a sixth of the injuries involving bicycles were suffered by this age group. 2 of the 18 bicyclist fatalities were in this age group. Another vulnerable group, persons ages 15 to 19, suffered no fatalities and accounted for 15.3% of the total injuries.

Victim's Age	Fatalities	Injuries
0-4	0 (0.0%)	2 (0.2%)
5-9	0 (0.0%)	47 (4.9%)
10-14	2 (11.1%)	123 (12.8%)
15-19	0 (0.0%)	147 (15.3%)
20-34	7 (38.9%)	297 (30.9%)
35-44	1 (5.6%)	100 (10.4%)
45-54	4 (22.2%)	98 (10.2%)
55-64	2 (11.1%)	106 (11.0%)
65-74	1 (5.6%)	25 (2.6%)
75+	1 (5.6%)	5 (0.5%)
Unknown	0 (0.0%)	12 (1.3%)
TOTAL	18 (100.0%)	962 (100.0%)

The totals in the table do not include an additional 11 bicyclists who were not fatally injured or injured or where their injury severity was unknown.

Bicycle Fatalities and Injuries by Light Level

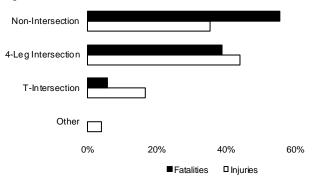
The majority of bicyclists' injuries occurred during daylight hours. However, several of the fatalities occurred during non-daylight conditions. These fatalities totaled 44% of total bicyclists' fatalities in 2018 compared to 48% in 2017.

Light Level	Fatalities	Injuries
Dawn	0 (0.0%)	11 (1.1%)
Daylight	10 (55.6%)	686 (71.3%)
Dark (Street Lights)	3 (16.7%)	194 (20.2%)
Dark (No/Unk St Lights)	5 (27.8%)	38 (4.0%)
Dusk	0 (0.0%)	32 (3.3%)
Other/Unknown	0 (0.0%)	1 (0.1%)
TOTAL	18 (100.0%)	962 (100.0%)

Note: The totals in the table do not include an additional 11 bicyclists who were not fatally injured or injured or where their injury severity was unknown.

Bicycle Fatalities and Injuries by Intersection

In 2018, the majority of bicyclists were injured at intersections and fatally injured at non-intersections.



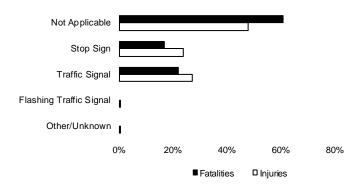
Intersection	Fatalities	Injuries	
Non-Intersection	10 (55.6%)	340 (35.3%)	
4-Leg Intersection	7 (38.9%)	424 (44.1%)	
T-Intersection	1 (5.6%)	161 (16.7%)	
Other	0 (0.0%)	37 (3.9%)	
TOTAL	18 (100.0%)	962 (100.0%)	

Note: The totals in the table do not include an additional 11 bicyclists who were not fatally injured or injured or where their injury severity was unknown.

Bicycle Fatalities and Injuries by Traffic Control Device

In 2018, injuries occurred more often at traffic control devices (TCD) than where there were no controls, but 61% of fatalities occurred where there were no controls.

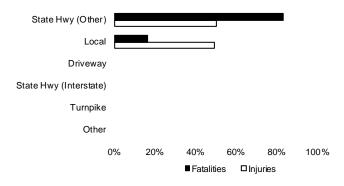
Traffic Control Device	Fatalities	Injuries
Not Applicable	11 (61.1%)	463 (48.1%)
Stop Sign	3 (16.7%)	231 (24.0%)
Traffic Signal	4 (22.2%)	261 (27.1%)
Flashing Traffic Signal	0 (0.0%)	2 (0.2%)
Other/Unknown	0 (0.0%)	5 (0.5%)
TOTAL	18 (100.0%)	962 (100.0%)



Note: The totals in the table do not include an additional 11 bicyclists who were not fatally injured or injured or where their injury severity was unknown.

Bicycle Fatalities and Injuries by Road Type*

83% of the fatalities of bicyclists occurred on state roads in 2018, while 50% of the injuries occurred on non-state roads.



* Crashes, fatalities and injuries on this page occurring at locations involving multiple road types are listed once, ranked from highest class to lowest: Interstate/Turnpike, Non-Interstate State Road, and then Local.

Note: The totals in the table do not include an additional 11 bicyclists who were not fatally injured or injured or where their injury severity was unknown.

Road Type	Fatalities	Injuries
State Hwy (Other)	15 (83.3%)	484 (50.3%)
Local	3 (16.7%)	478 (49.7%)
Driveway	0 (0.0%)	0 (0.0%)
State Hwy (Interstate)	0 (0.0%)	0 (0.0%)
Turnpike	0 (0.0%)	0 (0.0%)
Other	0 (0.0%)	0 (0.0%)
TOTAL	18 (100.0%)	962 (100.0%)

Crashes by Motor Vehicle Type

Vehicle Crashes by Vehicle Types

	Fatal Crashes	Injury Crashes	PDO Crashes	Total Crashes
Passenger Car	54.7%	69.3%	69.7%	69.4%
	603 crashes	39,319 crashes	49,194 crashes	89,116 crashes
Lt Trk/Van/SUV	46.3%	52.0%	49.8%	50.7%
	511 crashes	29,535 crashes	35,111 crashes	65,157 crashes
Heavy Truck	10.7%	5.5%	5.8%	5.7%
	118 crashes	3,110 crashes	4,108 crashes	7,336 crashes
Bicycle	1.6%	1.7%	0.0%	0.8%
	18 crashes	955 crashes	0 crashes	974 crashes
Motorcycle	14.4%	4.2%	0.2%	2.1%
	159 crashes	2,394 crashes	161 crashes	2,714 crashes
School Bus	0.1%	0.3%	0.2%	0.2%
	1 crashes	157 crashes	151 crashes	309 crashes
Commercial Bus	1.5%	0.7%	0.3%	0.5%
	16 crashes	413 crashes	193 crashes	622 crashes
Other	4.6%	1.7%	0.9%	1.3%
	51 crashes	988 crashes	638 crashes	1,677 crashes

The percentages in the table above compare the number of crashes with the total number of crashes in the crash severity category (for example, passenger cars were involved in 54.7% of all fatal injury crashes). Percentage totals exceed 100% due to multiple vehicle crashes.

Vehicle Crashes—Single Vehicle Hitting Fixed Objects

		Passenger Car	22,593	58.9%
		Lt Trk/Van/SUV	14,021	36.6%
Crashes in Which a Single		Heavy Truck	1,147	3.0%
Vehicle Hit a Fixed Object:	38,356	Motorcycle	457	1.2%
		School Bus	25	0.1%
		Commercial Bus	20	0.1%
		Other	93	0.2%

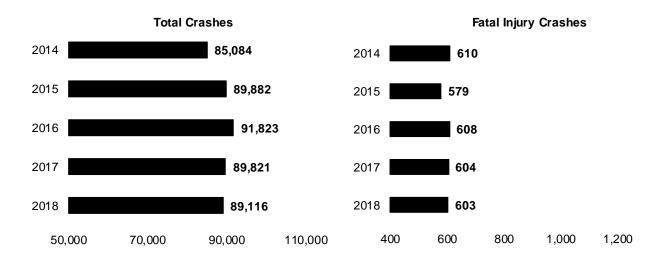
Vehicle Crashes—Two-Vehicle Collisions

		Vehicle Struck							
Striking Vehicle	Passenger Car	Heavy Truck	Lt Trk/ Vn/Sv			School Bus		Other/ Unknown	
Passenger Car	19,401	1,372	13,466	237	334	86	159	194	35,249
Lt Trk/Van/SUV	10,033	841	9,834	154	242	55	107	133	21,399
Heavy Truck	1,162	317	681	9	9	5	13	13	2,209
Motorcycle	363	20	289	35	4	0	3	7	721
Bicycle	153	2	143	4	1	0	5	3	311
School Bus	37	2	36	1	3	2	1	0	82
Commercial Bus	90	5	66	2	6	0	3	2	174
Other/Unknown	350	11	165	9	27	0	2	15	579

Crashes by Vehicle

Passenger Car Crashes—Five-Year Trends

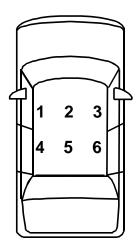
Total passenger car crashes in 2014 and fatal crashes in 2015 were the lowest in the last five years.



Passenger Car Fatalities by Seating Position

In 2018, 40% of crash fatalities involved passenger car occupants. The table below depicts the passenger car fatalities in 2018 by seating position.

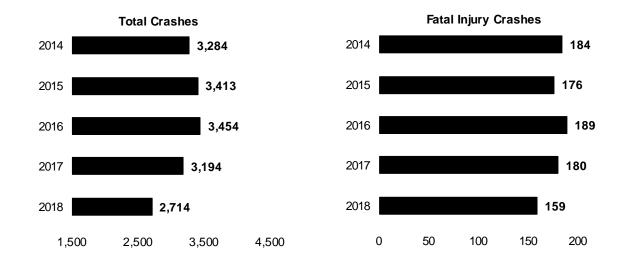
	Drivers		1 →
	366 (77.4%)		
		Center Front	2 →
		0 (0.0%)	
		Right Front	3 →
		70 (14.8%)	
Total Fatalities	Total Passengers	Left Rear	4 →
473	102 (21.6%)	12 (2.5%)	
		Center Rear	5 →
		2 (0.4%)	
		Right Rear	6 →
		18 (3.8%)	
	Others		·
	5 (1.1%)		



"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 2018, total motorcycle crashes decreased 15.0% from 2017 while motorcycle fatal injury crashes decreased 11.7% from 2017.



Year Fatalities 2014 186 2015 179 2016 192 2017 185 2018 164 TOTAL 906

Motorcycle Fatalities—Five-Year Trends

Of the 164 fatalities in 2018 involving motorcycle drivers or passengers:

- ▶ 153 (93.3%) were drivers
- ► 11 (6.7%) were passengers



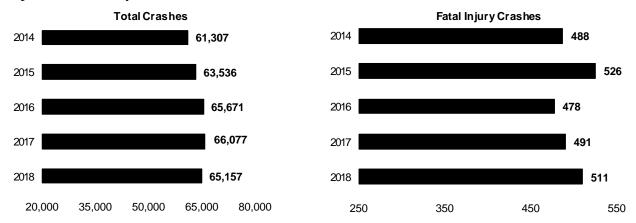
Motorcycle Helmet Use in Crashes

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

	Fatalities	Injuries	Not Injured	Total Motorcyclists
Helmets	66 (40.2%)	1,455 (55.7%)	155 (53.3%)	1,676 (54.7%)
No Helmets	92 (56.1%)	1,009 (38.6%)	96 (33.0%)	1,197 (39.0%)
Unknown	6 (3.7%)	147 (5.6%)	40 (13.8%)	193 (6.3%)
TOTAL	164 (100.0%)	2,611 (100.0%)	291 (100.0%)	3,066 (100.0%)

Light Truck / SUV / Van Crashes—Five-Year Trends

Pickups, minivans, and sport utility vehicles have become more popular over the last 10 years. Crashes involving these vehicles decreased 1.4% in 2018 from 2017 and remain high in comparison to other years.



Light Truck / SUV / Van Rollovers Compared to Passenger Cars

► The percentage of 2018 light truck / SUV / van crashes were higher than passenger cars in

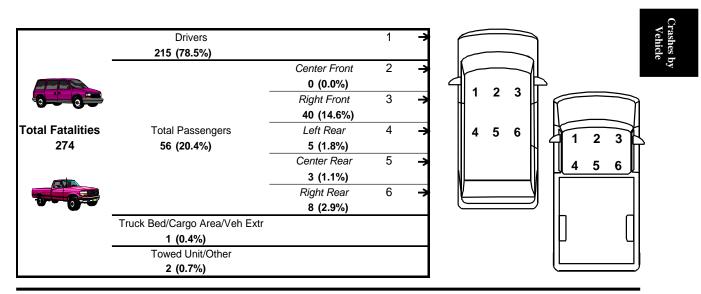
crashes involving rollovers (5.2% of all light truck / SUV / van crashes compared to 3.3% of all passenger car crashes).

	Rollover	Rollover
	Crashes	Fatalities
Lt Trk/Van/SUV	3,399 (5.2%)	73 (26.6%)
Passenger Cars	2,903 (3.3%)	69 (14.6%)

In 2018 rollover crashes, the percentage of light truck / SUV / van occupant fatalities were 83% higher than passenger car occupant fatalities (26.6% of fatalities compared to 14.6%).

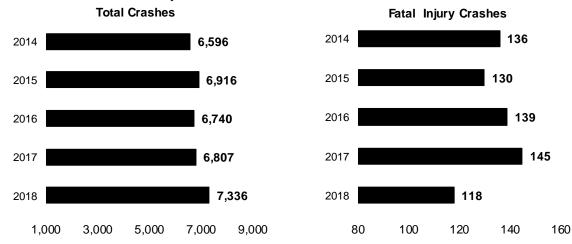
Light Truck / SUV / Van Fatalities by Seating Position

In 2018, 23.0% of crash fatalities involved occupants in light trucks, vans, and sport utility vehicles. The table below depicts these fatalities in 2018 by seating position.



Heavy Truck Crashes—Five Year Trends

Total crashes involving heavy trucks in 2018 were the highest since 2014. Fatal injury crashes in 2018 were the lowest over the last 5 years. The totals for fatal injury crashes have stayed somewhat consistent over a number of years.



Heavy Truck Crashes Involving Vehicle Failures

The vast majority of primary factors in heavy truck vehicle failure crashes were related to tires and wheels, brakes, power train failure and unsecure trailer/overloaded.

Vehicle Defect	Crashes
Tire/Wheel-Related	114
Brake-Related	85
Unsecure Trailer/Overloaded	36
Power Train Failure	25
Total Steering System Failure	12
Suspension	11
Other Failure	7
Trailer Hitch/Improper Towing	6
Vehicle Lighting Related	1
Exhaust System Failure	0

Heavy Truck Crashes by Road Type*

Road Type	Crashes	Occupant Fatalities
State Hwy (Interstate)	2,028 (27.6%)	2 (9.5%)
State Hwy (Other)	4,066 (55.4%)	12 (57.1%)
Turnpike	542 (7.4%)	2 (9.5%)
Local Road	700 (9.5%)	5 (23.8%)
Other	0 (0.0%)	0 (0.0%)
TOTAL	7,336 (100.0%)	21 (100.0%)

Note: "State Highway (Other)" includes state-maintained roads that are not designated as interstates.

^{*}Crashes and fatalities on this page occurring at locations involving multiple road types are listed once, ranked from highest class to lowest: Interstate/Turnpike, Non-Interstate State Road, and then Local.

Hazardous Material Crashes by Road Type

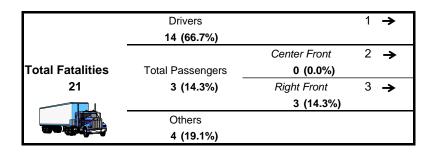
Road Type	Crashes	HazMat Released
State Hwy (Interstate)	37 (23.1%)	4 (20.0%)
State Hwy (Other)	102 (63.8%)	12 (60.0%)
Turnpike	9 (5.6%)	1 (5.0%)
Local Road	12 (7.5%)	3 (15.0%)
Other	0 (0.0%)	0 (0.0%)
TOTAL	160 (100.0%)	20 (100.0%)

Note: "State Highway (Other)" includes state-maintained roads that are not designated as interstates.

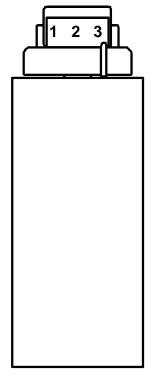
*Crashes on this page occurring at locations involving multiple road types are listed once, ranked from highest class to lowest: Interstate/Turnpike, Non-Interstate State Road, and then Local.

Heavy Truck Fatalities by Seating Position

In 2018, only 1.8% of crash fatalities involved heavy truck occupants. The table below depicts the heavy truck fatalities in 2018 by seating position.



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



Vehicle

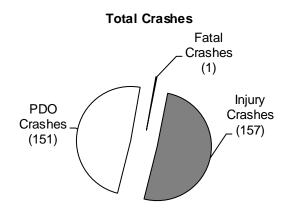
School Bus Crashes

Of the over 3,200 persons involved in school bus crashes in 2018, one was fatally injured, and 90% suffered no injury at all. See the tables at the bottom of page 57 for a breakdown of the persons involved. As shown, no fatalities were school bus passengers.

Total persons involved: 3,223



Over one half (50.8%) of school bus crashes in 2018 were injury crashes. However, as the pie chart above shows, most persons involved in school bus crashes suffer no injuries at all.



School Bus Crashes by Road Type*

Road Type	Cras	hes
State Hwy (Interstate)	8	2.6%
State Hwy (Other)	216	69.9%
Turnpike	0	0.0%
Local Road	85	27.5%
Other	0	0.0%
TOTAL	309	100.0%

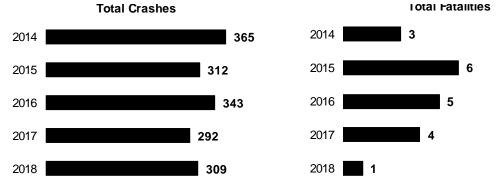
Note: "State Highway (Other)" includes state-maintained roads that are not designated as interstates.

*Crashes on this page occurring at locations involving multiple road types are listed once, ranked from highest class to lowest: Interstate/Turnpike, Non-Interstate State Road, and then Local.



School Bus Crashes—Five-Year Trends

The total number of school bus crashes increased and the involved fatalities decreased in 2018. School bus related fatalities were 0.1% of total fatalities in 2018. None of the persons fatally injured were school bus passengers at the time of the crash. The only fatality was a non-school age pedestrian.



		Crash S	everity			
Year	Fatal	Injury	PDO	Total	Fatalities	Injuries
2014	3	206	156	365	3	485
2015	6	156	150	312	6	296
2016	4	187	152	343	5	449
2017	4	156	132	292	4	371
2018	1	157	151	309	1	333
TOTAL	18	862	741	1,621	19	1,934

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

The tables below show the breakdown of persons fatally injured and injured in school bus crashes. None of the persons who were fatally injured in these crashes were school bus passengers.

FATALITIES					Driver/		
Year	School Bus Drivers	School Bus Passengers	School-Age Pedestrians	Other Pedestrians	Passenger of Other Vehicle	Other/ Unknown	Total Fatalities
2014	0	0	0	1	2	0	3
2015	0	0	1	0	5	0	6
2016	0	0	0	1	4	0	5
2017	1	0	0	0	3	0	4
2018	0	0	0	1	0	0	1
TOTAL	1	0	1	3	14	0	19

INJURIES					Driver/		
Year	School Bus Drivers	School Bus Passengers	School-Age Pedestrians	Other Pedestrians	Passenger of Other Vehicle	Other/ Unknown	Total Injuries
2014	36	266	3	5	170	5	485
2015	29	128	0	3	126	10	296
2016	44	204	8	5	156	32	449
2017	35	212	3	5	113	3	371
2018	34	168	2	5	115	9	333
TOTAL	178	978	16	23	680	59	1,934

Pennsylvania County Crashes

County Overview

The Commonwealth of Pennsylvania consists of 67 counties. Each county includes 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 2018, Pennsylvania's total population was 12,807,060 people.

The ten most populated counties were:

 Philadelphia (12.4%)
 Allegheny (9.5%)
 Montgomery (6.5%)

 Bucks (4.9%)
 Delaware (4.4%)
 Lancaster (4.2%)

 Chester (4.1%)
 York (3.5%)
 Berks (3.3%)

Lehigh (2.9%) *See page 59.*

The ten least populated counties were:

 Cameron (0.04%)
 Sullivan (0.05%)
 Forest (0.06%)

 Fulton (0.11%)
 Potter (0.13%)
 Montour (0.14%)

 Juniata (0.19%)
 Wyoming (0.21%)
 Elk (0.24%)

Greene (0.29%) *See page 59.*

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

Westmoreland (2.98%) Allegheny (2.96%) York (2.85%)
Washington (2.74%) Lancaster (2.62%) Chester (2.56%)
Bucks (2.43%) Crawford (2.29%) Bradford (2.25%)

Somerset (2.22%)

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

Allegheny (5.85%) Montgomery (3.66%) Lancaster (3.61%)
York (3.43%) Chester (3.34%) Bucks (3.24%)
Westmoreland (3.08%) Berks (3.07%) Philadelphia (2.84%)

Erie (2.29%)

The ten counties with the most reported traffic crashes were:

Allegheny (9.6%) Philadelphia (8.6%) Montgomery (7.2%)

Bucks (4.8%) Lancaster (4.7%) Berks (4.0%) Chester (3.8%) Delaware (3.8%) Lehigh (3.7%)

York (3.7%) See page 59.

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

 Philadelphia (8.7%)
 Allegheny (5.7%)
 Bucks (4.5%)

 Montgomery (4.2%)
 York (4.1%)
 Chester (3.9%)

 Lancaster (3.8%)
 Dauphin (3.5%)
 Berks (3.4%)

Westmoreland (2.9%) See page 61.

^{*}Information provided by PENNDOT's Bureau of Planning and Research, Performance Monitoring Division. For consistency purposes, the prior year's data is used at the time of publication because of timing issues. For this Crash Facts & Statistics book, 2017 information was used.

Pennsylvania Crashes by County

The percentages compare the number to the statewide total at the bottom of the columns.

County	Population	Fatal InjuryCrashes	Injury Crashes	PDO Crashes	Total Crashes
Adams	102,811 (0.8%)	15 (1.4%)	424 (0.8%)	605 (0.9%)	1,044 (0.8%)
Allegheny	1,218,452 (9.5%)	67 (6.1%)	5,012 (8.8%)	7,290 (10.3%)	12,369 (9.6%)
Armstrong	65,263 (0.5%)	8 (0.7%)	181 (0.3%)	306 (0.4%)	495 (0.4%)
Beaver	164,742 (1.3%)	14 (1.3%)	503 (0.9%)	844 (1.2%)	1,361 (1.1%)
Bedford	48,176 (0.4%)	8 (0.7%)	315 (0.6%)	536 (0.8%)	859 (0.7%)
Berks	420,152 (3.3%)	38 (3.5%)	2,149 (3.8%)	2,931 (4.2%)	5,118 (4.0%)
Blair	122,492 (1.0%)	10 (0.9%)	632 (1.1%)	836 (1.2%)	1,478 (1.2%)
Bradford	60,833 (0.5%)	12 (1.1%)	232 (0.4%)	353 (0.5%)	597 (0.5%)
Bucks	628,195 (4.9%)	53 (4.8%)	2,797 (4.9%)	3,343 (4.7%)	6,193 (4.8%)
Butler	187,888 (1.5%)	16 (1.5%)	722 (1.3%)	1,136 (1.6%)	1,874 (1.5%)
Cambria	131,730 (1.0%)	9 (0.8%)	488 (0.9%)	708 (1.0%)	1,205 (0.9%)
Cameron	4,492 (0.0%)	0 (0.0%)	21 (0.0%)	32 (0.1%)	53 (0.0%)
Carbon	64,227 (0.5%)	12 (1.1%)	274 (0.5%)	463 (0.7%)	749 (0.6%)
Centre	162,805 (1.3%)	, ,	, ,	, ,	, ,
	, , ,	12 (1.1%)	526 (0.9%)	678 (1.0%)	1,216 (1.0%)
Chester	522,046 (4.1%)	42 (3.8%)	1,854 (3.3%)	3,028 (4.3%)	4,924 (3.8%)
Clarion	38,779 (0.3%)	5 (0.5%)	165 (0.3%)	253 (0.4%)	423 (0.3%)
Clearfield	79,388 (0.6%)	16 (1.5%)	316 (0.6%)	502 (0.7%)	834 (0.7%)
Clinton	38,684 (0.3%)	3 (0.3%)	160 (0.3%)	206 (0.3%)	369 (0.3%)
Columbia	65,456 (0.5%)	8 (0.7%)	306 (0.5%)	451 (0.6%)	765 (0.6%)
Crawford	85,063 (0.7%)	12 (1.1%)	376 (0.7%)	558 (0.8%)	946 (0.7%)
Cumberland	251,423 (2.0%)	22 (2.0%)	1,047 (1.9%)	1,536 (2.2%)	2,605 (2.0%)
Dauphin	277,097 (2.2%)	39 (3.5%)	1,437 (2.5%)	1,972 (2.8%)	3,448 (2.7%)
Delaware	564,751 (4.4%)	18 (1.6%)	2,306 (4.1%)	2,620 (3.7%)	4,944 (3.9%)
Elk	30,169 (0.2%)	7 (0.6%)	129 (0.2%)	162 (0.2%)	298 (0.2%)
Erie	272,061 (2.1%)	20 (1.8%)	1,131 (2.0%)	1,321 (1.9%)	2,472 (1.9%)
ayette	130,441 (1.0%)	18 (1.6%)	547 (1.0%)	681 (1.0%)	1,246 (1.0%)
Forest	7,279 (0.1%)	1 (0.1%)	42 (0.1%)	29 (0.0%)	72 (0.1%)
Franklin	154,835 (1.2%)	` ,		' '	
	. ,	20 (1.8%)	632 (1.1%)	894 (1.3%)	1,546 (1.2%)
Fulton	14,523 (0.1%)	5 (0.5%)	120 (0.2%)	153 (0.2%)	278 (0.2%)
Greene	36,506 (0.3%)	8 (0.7%)	178 (0.3%)	254 (0.4%)	440 (0.3%)
Huntingdon 	45,168 (0.4%)	3 (0.3%)	140 (0.3%)	215 (0.3%)	358 (0.3%)
ndiana	84,501 (0.7%)	10 (0.9%)	288 (0.5%)	444 (0.6%)	742 (0.6%)
lefferson	43,641 (0.3%)	4 (0.4%)	172 (0.3%)	237 (0.3%)	413 (0.3%)
Juniata	24,704 (0.2%)	1 (0.1%)	103 (0.2%)	161 (0.2%)	265 (0.2%)
_ackawanna	210,793 (1.7%)	28 (2.5%)	1,197 (2.1%)	1,462 (2.1%)	2,687 (2.1%)
ancaster	543,557 (4.2%)	40 (3.6%)	2,573 (4.5%)	3,425 (4.9%)	6,038 (4.7%)
awrence	86,184 (0.7%)	16 (1.5%)	297 (0.5%)	457 (0.7%)	770 (0.6%)
_ebanon	141,314 (1.1%)	15 (1.4%)	663 (1.2%)	931 (1.3%)	1,609 (1.3%)
_ehigh	368,100 (2.9%)	24 (2.2%)	2,093 (3.7%)	2,596 (3.7%)	4,713 (3.7%)
_uzerne	317,646 (2.5%)	18 (1.6%)	1,560 (2.8%)	2,034 (2.9%)	3,612 (2.8%)
Lycoming	113,664 (0.9%)	9 (0.8%)	475 (0.8%)	631 (0.9%)	1,115 (0.9%)
McKean	40,968 (0.3%)	4 (0.4%)	132 (0.2%)	180 (0.3%)	316 (0.3%)
Mercer	110,683 (0.9%)	11 (1.0%)	486 (0.9%)	726 (1.0%)	1,223 (1.0%)
Mifflin	46,222 (0.4%)	2 (0.2%)	163 (0.3%)	304 (0.4%)	469 (0.4%)
			, ,	, ,	
Monroe	169,507 (1.3%)	18 (1.6%)	1,044 (1.8%)	1,399 (2.0%)	2,461 (1.9%)
Montgomery	828,604 (6.5%)	49 (4.4%)	4,164 (7.3%)	5,022 (7.1%)	9,235 (7.2%)
Montour	18,240 (0.1%)	2 (0.2%)	86 (0.2%)	130 (0.2%)	218 (0.2%)
Vorthampton	304,807 (2.4%)	19 (1.7%)	1,327 (2.3%)	1,629 (2.3%)	2,975 (2.3%)
Northumberland	91,083 (0.7%)	11 (1.0%)	315 (0.6%)	413 (0.6%)	739 (0.6%)
Perry	46,139 (0.4%)	9 (0.8%)	202 (0.4%)	327 (0.5%)	538 (0.4%)
Philadelphia	1,584,138 (12.4%)	100 (9.1%)	7,599 (13.4%)	3,304 (4.7%)	11,003 (8.6%)
Pike	55,933 (0.4%)	10 (0.9%)	236 (0.4%)	328 (0.5%)	574 (0.5%)
Potter	16,622 (0.1%)	6 (0.5%)	68 (0.1%)	67 (0.1%)	141 (0.1%)
Schuylkill	142,067 (1.1%)	19 (1.7%)	556 (1.0%)	783 (1.1%)	1,358 (1.1%)
Snyder	40,540 (0.3%)	5 (0.5%)	170 (0.3%)	217 (0.3%)	392 (0.3%)
Somerset	73,952 (0.6%)	12 (1.1%)	337 (0.6%)	473 (0.7%)	822 (0.6%)
Sullivan	6,071 (0.1%)	1 (0.1%)	31 (0.1%)	57 (0.1%)	89 (0.1%)
Susquehanna	40,589 (0.3%)	7 (0.6%)	184 (0.3%)	303 (0.4%)	494 (0.4%)
ioga	40,763 (0.3%)	4 (0.4%)	171 (0.3%)	280 (0.4%)	455 (0.4%)
-					423 (0.3%)
Jnion /ananaa	44,785 (0.4%)	8 (0.7%)	177 (0.3%)	238 (0.3%)	. , ,
/enango	51,266 (0.4%)	5 (0.5%)	192 (0.3%)	305 (0.4%)	502 (0.4%)
Varren	39,498 (0.3%)	5 (0.5%)	142 (0.3%)	200 (0.3%)	347 (0.3%)
Vashington	207,346 (1.6%)	27 (2.5%)	804 (1.4%)	1,207 (1.7%)	2,038 (1.6%)
Nayne	51,276 (0.4%)	6 (0.5%)	235 (0.4%)	300 (0.4%)	541 (0.4%)
Vestmoreland	350,611 (2.7%)	34 (3.1%)	1,347 (2.4%)	1,944 (2.8%)	3,325 (2.6%)
Vyoming	27,046 (0.2%)	2 (0.2%)	125 (0.2%)	190 (0.3%)	317 (0.3%)
/ork	448,273 (3.5%)	41 (3.7%)	1,869 (3.3%)	2,883 (4.1%)	4,793 (3.7%)
	12,807,060 (100.0%)	1,103 (100.0%)	56,745 (100.0%)	70,572 (99.9%)	

Crashes by County—Five-Year Trends

The percentages compare the number to the statewide total at the bottom of the columns.

County	2014 Cra	ashes	2015 C	rashes	2016 (Crashes	2017 (rashes	2018 C	rashes
Adams	1,026 (0	0.9%)	990	(0.8%)	1,018	(0.8%)	1,002	(0.8%)	1,044	(0.8%)
Allegheny	12,154 (10.0%)	12,665	(10.0%)	12,858	(9.9%)	12,470	(9.7%)	12,369	(9.6%)
Armstrong	526 (0	0.4%)	517	(0.4%)		(0.4%)	546	(0.4%)	495	(0.4%)
Beaver	1,404 (1			(1.1%)		(1.0%)		(1.0%)	1,361	
Bedford	650 (0			(0.6%)		(0.6%)		(0.6%)		(0.7%)
Berks	4,593 (3		4,831	. ,		(3.8%)		(3.9%)	5,118	. ,
Blair	1,277 (*		1,453	. ,		(1.1%)		(1.2%)	1,478	. ,
Bradford	650 (0	,		(0.5%)		(0.4%)		(0.5%)		(0.5%)
Bucks	5,779 (4		5,932			(4.8%)		(4.8%)	6,193	. ,
Butler Cambria	1,951 (*		1,847 1,197			(1.4%)		(1.5%)	1,874	. ,
Cambria	1,218 (*			` '		(1.0%)		(1.0%)	1,205	
Carbon	690 (0	0.1%)		(0.0%)		(0.0%)		(0.1%)		(0.0%) (0.6%)
Centre	1,210 (,		(1.0%)		(1.0%)		(1.0%)	1,216	` '
Chester	4,676 (3		4,938	. ,		(3.8%)		(3.7%)	4,924	
Clarion	451 (0			(0.3%)		(0.3%)		(0.3%)		(0.3%)
Clearfield	840 (0	,		(0.6%)		(0.7%)		(0.6%)		(0.7%)
Clinton	440 (0	,		(0.3%)		(0.3%)		(0.3%)		(0.3%)
Columbia	727 (0			(0.6%)		(0.6%)		(0.6%)		(0.6%)
Crawford	857 ((0.7%)		(0.7%)		(0.7%)		(0.7%)
Cumberland	2,393 (2	,	2,633	. ,		(2.0%)		(2.0%)	2,605	
Dauphin	2,969 (2		3,163	, ,		(2.5%)		(2.7%)	3,448	
Delaware	4,546 (3	3.8%)	4,865	(3.8%)	5,001	(3.9%)	5,022	(3.9%)	4,944	(3.9%)
Elk	327 (0	0.3%)	293	(0.2%)	322	(0.3%)	307	(0.2%)	298	(0.2%)
Erie	2,736 (2	2.3%)	2,759	(2.2%)	2,716	(2.1%)	2,619	(2.0%)	2,472	(1.9%)
Fayette	1,184 (1	1.0%)	1,237	(1.0%)		(0.9%)		(1.0%)	1,246	(1.0%)
Forest		0.1%)		(0.0%)		(0.1%)		(0.1%)		(0.1%)
Franklin	1,441 (1	,	1,504	, ,		(1.2%)		(1.2%)	1,546	
Fulton	246 (0			(0.2%)		(0.2%)		(0.2%)		(0.2%)
Greene	382 (0			(0.3%)		(0.3%)		(0.3%)		(0.3%)
Huntingdon	358 (0	,		(0.3%)		(0.3%)		(0.3%)		(0.3%)
Indiana	779 (((0.6%)		(0.6%)		(0.6%)		(0.6%)
Jefferson Juniata	431 (0			(0.4%)		(0.4%)		(0.3%)		(0.3%) (0.2%)
Juniaia Lackawanna	260 (0	,		(0.2%)		(0.2%)		,		` '
Lancaster	2,580 (2 5,339 (4		2,587 5,605	. ,		(2.1%) (4.6%)		(2.1%) (4.5%)	2,687 6,038	. ,
Lawrence	741 ((· · · · · · · · · · · · · · · · · · ·	(0.6%)		(0.6%)		(0.6%)		(0.6%)
Lebanon	1,356 (1,493	. ,		(1.1%)		(1.2%)	1,609	
Lehigh	4,501 (3	,	4,738	. ,		(3.8%)		(4.0%)	4,713	
Luzerne	3,297 (2		3,690	, ,		(2.8%)		(2.8%)	3,612	. ,
Lycoming	1,091 (0	0.9%)	1,161	(0.9%)	1,101	(0.9%)	1,089	(0.9%)	1,115	
McKean	398 (0	0.3%)	371	(0.3%)	389	(0.3%)	347	(0.3%)		(0.3%)
Mercer	1,216 (1.0%)	1,260	(1.0%)	1,300	(1.0%)	1,291	(1.0%)	1,223	(1.0%)
Mifflin	366 (0	0.3%)	459	(0.4%)	451	(0.4%)	453	(0.4%)	469	(0.4%)
Monroe	2,163 (1	1.8%)	2,504	(2.0%)	2,621	(2.0%)	2,456	(1.9%)	2,461	(1.9%)
Montgomery	8,104 (6			(6.7%)		(6.8%)		(7.0%)	9,235	. ,
Montour	221 (0			(0.2%)		(0.2%)		(0.2%)		(0.2%)
Northampton	2,927 (2		3,077	. ,		(2.4%)		(2.4%)	2,975	. ,
Northumberland	749 (0	,		(0.5%)		(0.6%)		(0.6%)		(0.6%)
Perry	498 (0			(0.4%)		(0.4%)		(0.4%)		(0.4%)
Philadelphia	10,627 (8		11,544	, ,	12,190		11,160		11,003	
Pike	591 (0	,		(0.5%)		(0.5%)		(0.5%)		(0.5%)
Potter	,	0.1%)		(0.1%)		(0.1%)		(0.1%)		(0.1%) (1.1%)
Schuylkill Snyder	1,373 (²		1,381	(0.3%)		(1.0%)		(1.1%)	1,358	(1.1%) (0.3%)
Somerset	710 (((0.6%)		(0.6%)		(0.6%)		(0.3%) (0.6%)
Sullivan		0.6%)		(0.0%)		(0.0%)		(0.0%)		(0.6%) (0.1%)
Susquehanna	523 (0			(0.1%)		(0.1%)		(0.1%)		(0.1%)
Tioga	407 (0			(0.4%)		(0.4%)		(0.4%)		(0.4%) (0.4%)
Union	350 (0			(0.3%)		(0.3%)		(0.3%)		(0.3%)
Venango	547 (0			(0.4%)		(0.4%)		(0.4%)		(0.4%)
Warren	382 (0			(0.3%)		(0.3%)		(0.3%)		(0.3%)
Washington	1,956 ((1.5%)		(1.6%)		(1.5%)		. ,
Wayne	428 (0			(0.4%)		(0.4%)		(0.4%)		(0.4%)
Westmoreland	3,272 (2	,		(2.6%)		(2.5%)		(2.5%)		
Wyoming	322 (0			(0.3%)		(0.2%)		(0.2%)		(0.3%)
York	4,412 (3			(3.7%)		(3.6%)		(3.7%)		
					-	. ,		, ,	•	
TOTAL	121,317 (9	99.9%)	127,127	(99.9%)	129,395	(99.9%	128,188	(99.9%	5) 128,420	(99.9%)

Traffic Fatalities by County—Five-Year Trends

The percentages compare the number to the statewide totals at the bottom of the columns.

	County	2014 Fatalities	2015 Fatalities	2016 Fatalities	2017 Fatalities	2018 Fatalities
Armstrong 14 (1.2%) 14 (1.2%) 6 (0.5%) 9 (0.8%) 9 (0.8%) Bearlord 10 (0.6%) 12 (1.0%) 5 (0.4%) 17 (1.5%) 15 (1.3%) Bearlord 13 (1.1%) 7 (0.6%) 11 (0.9%) 12 (1.1%) 8 (0.7%) Bearlord 33 (2.8%) 39 (3.3%) 35 (3.0%) 5 (0.4%) 12 (1.1%) 8 (0.7%) Blair 13 (1.1%) 16 (1.3%) 10 (0.8%) 9 (0.8%) 12 (1.0%) 13 (1.1%) Blair 13 (1.1%) 16 (1.3%) 10 (0.8%) 9 (0.8%) 12 (1.0%) Blair 13 (1.1%) 16 (1.3%) 10 (0.8%) 9 (0.8%) 12 (1.0%) Bucks 44 (3.7%) 15 (4.6%) 52 (4.4%) 50 (4.4%) 15 (4.4%) 18 (4.5%) Bucks 44 (3.7%) 15 (4.6%) 12 (1.0%) 12 (1.1%) 9 (0.8%) Cambria 13 (1.1%) 2 (0.2%) 12 (1.0%) 12 (1.1%) 9 (0.8%) Cambria 13 (1.1%) 2 (0.2%) 10 (0.0%) 12 (1.1%) 9 (0.8%) Cambria 13 (1.1%) 2 (0.2%) 10 (0.0%) 10 (0.0%) 10 (0.0%) Cambron 10 (0.8%) 11 (0.9%) 12 (1.0%) 18 (1.4%) 13 (1.1%) Carbota 1 (0.8%) 14 (0.3%) 12 (1.0%) 18 (1.4%) 13 (1.1%) Carbota 1 (1.0%) 15 (1.3%) 20 (1.7%) 18 (1.4%) 13 (1.1%) Chester 4 (2.1%) 4 (0.3%) 4 (0.3%) 4 (0.0%) 4	Adams	6 (0.5%)	14 (1.2%)	15 (1.3%)	5 (0.4%)	16 (1.3%)
Beaver 10 (0.8%) 12 (1.0%) 5 (0.4%) 17 (1.5%) 15 (1.3%) 8erks 33 (2.8%) 39 (3.3%) 35 (3.0%) 50 (4.4%) 41 (3.5%) 8erks 33 (2.8%) 39 (3.3%) 35 (3.0%) 50 (4.4%) 41 (3.5%) 8radford 8 (0.7%) 56 (4.6%) 16 (1.3%) 10 (0.8%) 9 (0.8%) 12 (1.1%) 58 (4.6%) 56 (4.6%) 56 (4.4%) 54 (4.5%) 58 (4.6%) 56 (4.4%) 54 (4.5%) 58 (4.6%) 56 (4.4%) 54 (4.5%) 58 (4.6%) 56 (4.4%) 54 (4.5%) 58 (4.6%) 56 (4.4%) 54 (4.5%) 58 (4.6%) 56 (4.4%) 54 (4.5%) 58 (4.6%) 56 (4.4%) 54 (4.5%) 58 (4.6%) 56 (4.4%) 54 (4.5%) 58 (4.6%) 56 (4.4%) 54 (4.5%) 58 (4.6%) 56 (4.4%) 54 (4.5%) 58 (4.6%) 56 (4.4%) 54 (4.5%) 58 (4.6%) 56 (4.4%) 54 (4.5%) 58 (4.6%) 56 (4.4%) 54 (4.5%) 58 (4.6%) 56 (4.4%) 54 (4.5%) 58 (4.6%) 56 (4.4%) 54 (4.5%) 58 (4.6%) 56 (4.4%) 54 (4.5%) 58 (4.6%) 56 (4.4%) 54 (4.5%) 58 (4.6%) 56 (4.4%) 54 (4.5%) 58 (4.6%) 56 (4.6%) 5	Allegheny	59 (4.9%)	54 (4.5%)	72 (6.1%)	67 (5.9%)	68 (5.7%)
Bestford 13 (1.1%) 7 (0.8%) 11 (0.9%) 12 (1.1%) 8 (0.7%) 16 (1.35%) 18 (1.35%) 18 (1.35%) 18 (1.35%) 18 (1.35%) 18 (1.35%) 18 (1.35%) 18 (1.35%) 18 (1.35%) 18 (1.35%) 18 (1.35%) 18 (1.35%) 18 (1.1%) 19 (0.8%) 12 (1.1%) 19 (0.8%) 12 (1.1%) 19 (0.8%) 13 (1.1%) 19 (0.8%) 13 (1.1%) 19 (0.8%) 13 (1.1%) 19 (0.8%) 17 (1.15%) 18 (1.55%)	Armstrong		14 (1.2%)	6 (0.5%)	9 (0.8%)	9 (0.8%)
Berks 33 (28%) 39 (3.3%) 55 (3.0%) 50 (4.4%) 41 (3.5%) 21 (10%) Bradford 8 (0.7%) 16 (1.3%) 10 (0.8%) 9 (0.8%) 12 (1.0%) Bradford 8 (0.7%) 55 (4.6%) 52 (4.4%) 45 (4.4%) 44 (4.5%) 50 (4.4%) 54 (4.5%) 50 (4.5%) 51 (4.1%) 90 (0.8%) 62 (0.0	Beaver	10 (0.8%)	12 (1.0%)	5 (0.4%)	17 (1.5%)	15 (1.3%)
Billeri 13 (1.1%) 23 (1.9%) 22 (1.9%) 9 (0.8%) 12 (1.0%) 12 (1.0%) 16 (0.3%) 9 (0.8%) 31 (1.1%) 8ucks 44 (3.7%) 55 (4.6%) 52 (4.4%) 50 (4.4%) 54 (4.5%) 18 (1.5%) 18 (Bedford					
Bradford	Berks					` '
Bucks 44 (3.7%) 55 (4.6%) 52 (4.4%) 50 (4.4%) 54 (4.5%) 54 (1.5%) 18 (1.5%) 17 (1.5%) 18 (1.5%) 18 (1.5%) 17 (1.5%) 18 (1.5%) 18 (1.5%) 17 (1.5%) 18 (1.5%) 18 (1.5%) 18 (1.5%) 18 (1.5%) 18 (1.5%) 18 (1.5%) 18 (1.5%) 18 (1.5%) 18 (1.5%) 18 (1.5%) 18 (1.5%) 18 (1.5%) 18 (1.5%) 19 (0.8%) 12 (1.0%) 10 (0.0%) 10 (0.0%) 10 (0.0%) 10 (0.0%) 10 (0.0%) 10 (0.0%) 10 (0.0%) 10 (0.0%) 10 (0.0%) 13 (1.1%) 18 (1.5%)			` '	, ,		, ,
Buller 25 (2.1%) 16 (1.3%) 30 (2.5%) 17 (1.5%) 18 (1.5%) 0.8% Cambrain 13 (1.1%) 9 (0.8%) 12 (1.0%) 12 (1.1%) 9 (0.8%) Cambrain 13 (1.1%) 9 (0.8%) 12 (1.0%) 12 (1.1%) 9 (0.0%) 0 (0.0%) 0 (0.0%) Cambrain 1 (0.1%) 2 (0.2%) 0 (0.0%) 0 (0.0%) 0 (0.0%) 0 (0.0%) 10 (0.0%) 10 (0.0%) 10 (0.0%) 10 (0.0%) 10 (0.0%) 15 (1.3%) 12 (1.0%) 16 (1.4%) 13 (1.1%) Cantro 12 (1.0%) 15 (1.3%) 20 (1.7%) 16 (1.4%) 13 (1.1%) Cantro 15 (0.4%) 15 (1.3%) 20 (1.7%) 16 (1.4%) 13 (1.1%) Clarion 5 (0.4%) 14 (0.3%) 14 (0.3%) 17 (0.6%) 18 (0.7%					, ,	
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Cameron 1 (0.1%) 2 (0.2%) 0 (0.0%) 0 (0.0%) 0 (0.0%) 10 (0.0%) Carbron 10 (0.8%) 11 (0.9%) 12 (1.0%) 9 (0.9%) 13 (1.1%) Cantre 12 (1.0%) 15 (1.3%) 20 (1.7%) 16 (1.4%) 13 (1.1%) Cantre 12 (1.0%) 15 (1.3%) 20 (1.7%) 36 (1.4%) 16 (1.4%) 13 (1.1%) Cantre 13 (2.9%) 3 (2.9%) 3 (2.9%) 3 (3.1%) 46 (3.9%) 16 (1.4%) 18 (1.4%) 18 (1.1%) Cantron 5 (0.4%) 4 (0.3%) 4 (0.3%) 4 (0.3%) 16 (1.4%) 18 (0.7%) 18 (0.7%) 16 (1.4%) 18 (0.7%) 18 (0.7%) 19 (0.8%) 16 (1.4%) 18 (1.5%) 18 (0.7%) 19 (0.8%) 16 (1.4%) 18 (1.5%) 19 (0.8%) 16 (1.4%) 18 (1.5%) 19 (0.8%) 16 (1.4%) 18 (1.5%) 19 (0.8%) 19 (, ,	, ,	, ,	
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TOTAL 1,195 (100.0%) 1,200 (100.0%) 1,188 (100.0%) 1,137 (100.0%) 1,190 (100.0%)						
	TOTAL	1,195 (100.0%)	1,200 (100.0%)	1,188 (100.0%)	1,137 (100.0%)	1,190 (100.0%)

Pedestrian Fatalities by County—Five-Year Trends

County	2014	2015	2016	2017	2018
Adams	1	0	1	0	5
Allegheny	11	15	15	16	14
Armstrong	1	2	1	0	0
Beaver	0	1	1	0	1
Bedford	2	0	2	0	0
Berks	5	3	6	3	4
Blair	0	3	1	0	1
Bradford	0	4	0	0	0
Bucks	8	8	8	11	12
Butler	3	0	1	0	1
Cambria	0	3	1	1	0
Cameron	1	0	0	0	0
Carbon	1	1	0	2	1
Centre	2	1	3	1	0
Chester	5	3	4	2	5
Clarion	0	2	0	0	0
Clearfield	0	3	1	2	0
Clinton	2	0	0	11	1
Columbia	0	0	0	0	1
Crawford	0	2	0	0	2 5
Cumberland	1	2	3	1	
Dauphin	0	4	6	4	10
Delaware	8	2	7	7	6
Elk	0	11	0	0	0
Erie	3	5	3	3	4
Fayette	0	2	2	0	2 0
Forest	0	0	0	0	
Franklin	2	0	1	3	4 0
Fulton	0	1	0	1	
Greene	0	0	0	0	0
Huntingdon	2	0	0	0	0
Indiana	0	2	1	0	2 0
Jefferson	0	0	0	0	
Juniata	1	4	0	0	0
Lackawanna	3 11		5 8	4 5	4
Lancaster Lawrence	3	7 1	2	5 1	8
	3 1	1	1	4	2 4
Lebanon	9			5	
Lehigh	3	6	<u>1</u>	2	3
Luzerne Lycoming	2	1	3	4	5 1
Lycoming McKean	0	0	0	0	0
Mercer	2	0	1	0	
Mifflin	1	0	2	1	2 0
Monroe	1	4	1	4	3
Montgomery	4	9	5	6	18
Montour	0	0	0	0	0
Northampton	6	4	5	4	2
Northumberland	2	0	1	0	3
Perry	0	1	2	1	3
Philadelphia	38	26	44	37	42
Pike	0	0	0	0	0
Potter	0	0	0	0	1
Schuylkill	5	2	3	1	2
Snyder	0	1	0	0	0
Somerset	0	0	1	0	•
Sullivan	1	0	0	0	2 0
Susquehanna	2	1	0	0	1
Tioga	0	Ö	0	0	1
Union	0	0	0	0	1 0
Venango	2	0	1	1	0
Warren	0	0	0	1	0
Washington	4	3	2	0	0 5
Wayne	1	0	0	1	1
Westmoreland	3	4	5	0	2
Wyoming	0	0	0	1	2 0
York	3	3	7	9	5
TOTAL	166	153	172	150	201

Pedestrian Fatalities and Injuries by Age Group by County

	Age	0-4	Age	5-9	Age 1	0-14	Age 1	15-59	Age	60+	To	tal
County	Fatality	Injury	Fatality	Injury	Fatality	Injury	Fatality	Injury	Fatality	Injury	Fatality	Injury
Adams	0	0	0	1	0	0	1	6	4	4	5	11
Allegheny	0	6	0	9	0	18	4	280	10	88	14	401
Armstrong	0	0	0	0	0	0	0	0	0	0	0	0
Beaver	0	1	0	1	0	1	0	14	1	2	1	19
Bedford	0	0	0	0	0	0	0	1	0	1	0	2
Berks Blair	0	5 0	0	10 1	0	14 4	3	75 18	0	20 4	1	124 27
Bradford	0	0	0	0	0	0	0	4	0	3	0	7
Bucks	0	1	0	5	0	9	7	71	5	25	12	111
Butler	0	1	0	1	0	0	0	6	1	2	1	10
Cambria	0	0	0	3	0	3	0	11	0	4	0	21
Cameron	0	0	0	0	0	0	0	0	0	0	0	0
Carbon	0	0	0	0	0	0	0	2	1	0	1	2
Centre	0	0	0	2	0	0	0	42	0	4	0	48
Chester	0	2	0	6	0	7	4	44	1	11	5	70
Clarion	0	0	0	0	0	0	0	4	0	2	0	6
Clearfield Clinton	0 0	0 1	0	0 1	0	0 2	0	2 6	0	3 1	0	5 11
Columbia	0	2	1	0	0	0	0	9	0	3	1	14
Crawford	0	0	0	0	0	0	1	6	1	3	2	9
Cumberland	0	0	0	3	0	5	3	30	2	9	5	47
Dauphin	0	2	0	12	0	2	4	44	6	9	10	69
Delaware	0	5	0	13	0	23	2	101	4	40	6	182
Elk	0	0	0	0	0	1	0	2	0	2	0	5
Erie	0	1	0	7	0	6	2	48	2	13	4	75
Fayette	0	1	0	0	0	2	1	11	0	2	1	16
Forest Franklin	0	<u>0</u>	0	0	0	3	3	20	0	0 4	0	0 28
Franklin Fulton	0	0	0	0	0	0	0	20 1	0	2	4 0	28 3
Greene	0	0	0	0	0	0	0	0	0	1	0	1
Huntingdon	0	0	0	0	0	0	0	2	0	0	0	2
Indiana	0	0	0	1	0	2	1	6	1	2	2	11
Jefferson	0	0	0	0	0	1	0	3	0	3	0	7
Juniata	0	0	0	0	0	0	0	1	0	0	0	1
Lackawanna	0	3	0	5	0	7	1	65	3	23	4	103
Lancaster	0	4	0	8	0	16	4	100	4	24	8	152
Lawrence	0	0	0	1	0	0	1	7	1	2	2	10
Lebanon	0 0	0 2	0	1 7	1 0	3 13	1 3	17 87	2 0	6 13	4 3	27 122
Lehigh Luzerne	0	6	0	5	0	9	2	70	3	14	5	104
Lycoming	0	1	0	2	0	3	1	13	0	4	1	23
McKean	0	0	0	0	0	1	0	6	0	2	0	9
Mercer	0	1	0	0	0	3	1	6	1	3	2	13
Mifflin	0	1	0	0	0	1	0	3	0	2	0	7
Monroe	0	0	0	1	0	2	3	30	0	3	3	36
Montgomery	0	3	0	9	0	27	9	152	9	50	18	241
Montour	0	0	0	1	0	0	0	2	0	1	0	4
Northampton Northumberland	0	0	0	5 1	0	7 5	0	53 9	3	13 1	3	80 16
Perry	0	1	0	0	0	0	3	0	0	0	3	16
Philadelphia	1	40	1	114	1	110	25	998	12	262	40	1,524
Pike	0	0	0	0	0	0	0	4	0	0	0	4
Potter	0	0	0	0	0	0	0	2	1	1	1	3
Schuylkill	0	1	0	2	0	2	1	11	1	3	2	19
Snyder	0	1	0	0	0	0	0	3	0	3	0	7
Somerset	0	0	0	0	0	1	1	4	1	1	2	6
Sullivan	0	0	0	0	0	0	0	0	0	0	0	0
Susquehanna	0 0	0	0	0 0	0	0	0	5	1	1	1	6
Tioga Union	0	1 0	0	0	0	0	0	2 3	1 0	1 4	1 0	4 7
Venango	0	1	0	0	0	1	0	4	0	1	0	7
Warren	0	0	0	0	0	0	0	1	0	0	0	1
Washington	0	0	0	0	0	0	5	18	0	2	5	20
Wayne	0	0	0	0	0	2	0	5	1	1	1	8
Westmoreland	0	2	0	3	0	4	1	20	1	11	2	40
Wyoming	0	0	0	0	0	0	0	0	0	11	0	1
York	0	2	0	7	0	10	3	54	2	13	5	86
TOTAL	2	101	2	248	2	330	105	2,624	87	733	198	4,036

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

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

County	2014 Belt Use	2015 Belt Use	2016 Belt Use	2017 Belt Use	2018 Belt Use
Adams	86	86	88	88	87
Allegheny	78	80	80	80	80
Armstrong	80	87	82	81	85
Beaver	69	72	70	71	75
Bedford	88	86	90	89	88
Berks	80	80	79	80	79
Blair	86	86	84	86	87
Bradford	89	88	87	87	87
Bucks	83	85	84	84	86
Butler	88	89	89	90	90
Cambria	78	77	76	78	76
Cameron	94	95	84	86	93
Carbon	80	80	82	78	82
Centre	87	89	89	91	89
Chester	87	87	89	88	87
Clarion	89	89	88	90	85
Clearfield	80	82	85	82	82
Clinton	91	89	89	87	87
Columbia	87	88	89	90	89
Crawford	85	87	88	87	87
Cumberland	89	89	90	89	90
Dauphin	85	86	86	85	84
Delaware	77	79	79	78	78
Elk	78	79	77	75	82
Erie	81	83	83	83	84
Fayette	81	81	81	81	82
Forest	82	83	82	83	85
Franklin	84	83	87	85	86
Fulton	88	88	87	86	89
Greene	77	82	81	87	84
Huntingdon	84	83	82	85	85
Indiana	84	82	85	87	88
Jefferson	85	87	84	87	86
Juniata 	81	85	79	86	90
Lackawanna	78	77	81	82	84
Lancaster	86	88	88	89	89
Lawrence	75	76	80	77	77
Lebanon	88	87	86	87	88
Lehigh	79	78	80	85	78
Luzerne	79	79	81	80	82
Lycoming	81	80	80	77	78
McKean	76	81	78	81	81
Mercer	80	78	81	83	78
Mifflin	82	82	80	86	83
Monroe	87	91	91	91	90
Montgomery	87	87	87	88	86
Montour	91	92	92	92	91
Northampton	85	87	85	86	87
Northumberland	77	80	81	80	77
Perry	84	87	86	89	89
Philadelphia Pike	40	41	40 92	41 92	43
Pike Potter	92	92			92
	80 84	83	81	88	83
Schuylkill	84 89	85 90	83 90	84 92	82 91
Snyder Somerset					
Somerset Sullivan	86 92	85 90	84 90	84 83	85 91
Sullivan Susquehanna	92 84	90 86	83	84	91 87
Susquenanna Tioga	86	90	91	88	89
Tioga Union	86	90 89	91 89	88 91	89 92
Union Venango	80	89 86	89	83	92 88
venango Warren	80 91	88	90	83 91	88 91
warren Washington	91 81	88 82	90 82	91 81	91 81
•	86	83	88	87	89
Wayne Westmoreland					
Wyoming	85 85	85 87	87	85 80	86 91
York	85 87	86	88 87	89 86	91 86
STATEWIDE	79	80	80	80	80
OTATI SWIPL	13	00	00	- 00	

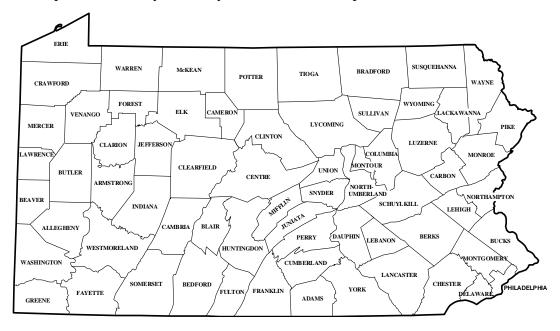
Note: Applicable Motor Vehicle Occupants who were properly restrained compared to those who were not properly restrained or where restraint usage was not reported or was not known.

Alcohol-Related Fatalities by County—Five-Year Trends

County	2014 Fatalities	2015 Fatalities	2016 Fatalities	2017 Fatalities	2018 Fatalities
Adams	1	2	4	3	4
Allegheny	19	11	19	22	15
Armstrong	7	4	1	4	4
Beaver	3	0	2	2	6
Bedford	2	2	2	1	2
Berks	6	14	11	10	6
Blair	1	8	5	1	1
Bradford	4	7	1	2	3
Bucks	14	13	16	14	21
Butler	9	3	6	6	2
Cambria	6	2	2	5	2
Cameron	1	0	0	0	0
Carbon	4	2	1	1	3
Centre	2	6	3	2	3 7
Chester	11	15	5 5	15	12
Clarion	2	1	0	0	2
Clearfield	2	9	1	3	4
Clinton	4	3	0	2	0
Columbia	3	4	1	0	3
Crawford	5	2	6	4	3
Cumberland	8	2	6	8	8
Dauphin	3	6	7	9	12
Delaware	6	7	6	7	9
Elk	4	0	1	2	2
Erie	9	6	4	8	8
Fayette	5	5	7	7	5
Forest	0	0	0	0	2
Franklin	3	2	2	4	5
Fulton	1	1	0	1	0
Greene	3	2	0	1	4
Huntingdon	6	2	2	2	2
Indiana	3	9	14	1	2
Jefferson	2	4	1	0	0
Juniata	2	3	1	1	2
Lackawanna	5	5	9	4	6
Lancaster	16	16	13	7	8
Lawrence	2	2	2	2	5
Lebanon	1	1	1	9	2
Lehigh	7	14	8	6	3
Luzerne	17	18	8	5	4
Lycoming	9	5	3	6	2
McKean	4	2	2	1	0
Mercer	3	<u>-</u> 1	3	3	7
Mifflin	0	0	1	2	1
Monroe	8	6	11	5	7
Montgomery	<u>o</u>	6	9	12	10
Montour	1	1	0	1	0
Northampton	8	10	14	3	5
Northampton Northumberland	0	10	4	2	3
	0			5	3 5
Perry Philodolphia		1	0		
Philadelphia	18	31	16	17 1	28
Pike	4	4	0		3
Potter	0	0	0	1	3
Schuylkill	6	4	3	3	10
Snyder	0	4	2	1	2
Somerset	4	3	0	4	6
Sullivan	0	1	0	0	0
Susquehanna	6	2	6	3	3
Tioga	3	1	4	1	0
Union	2	2	0	1	4
Venango	4	0	2	2	3
Warren	0	0	0	2	2
Washington	12	9	8	8	10
Wayne	1	4	7	1	0
Westmoreland	7	16	13	12	10
	2	1	0	2	0
Wvomina					
Wyoming York	11	17	11	13	18

Pennsylvania Counties

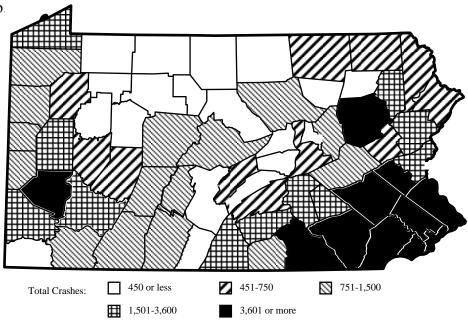
Use the map below as a key to county names for other maps.



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

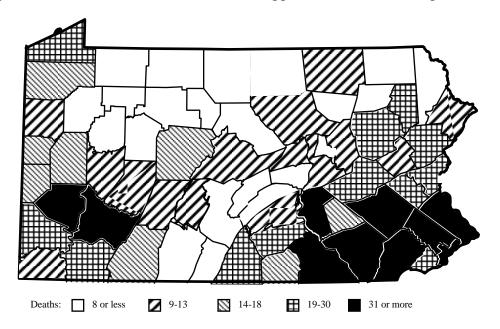
Total Crashes by County

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, 57% of the total traffic crashes occurred in only 11 of Pennsylvania's 67 counties. These 11 counties appear in black on the map.



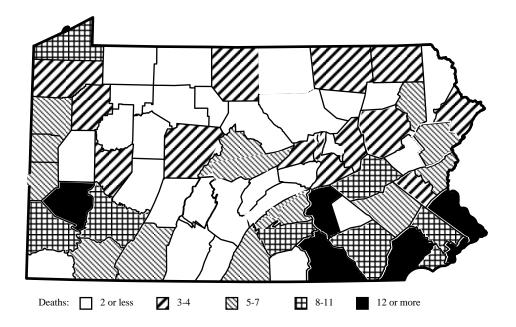
Traffic Fatalities by County

Referring to the map below, 45% of the total traffic fatalities occurred in only 10 of Pennsylvania's 67 counties. These 10 counties appear in black on the map.



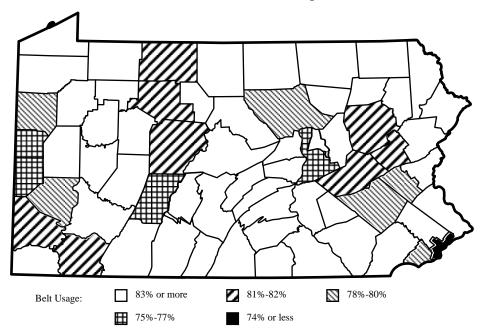
Alcohol-Related Fatalities by County

Referring to the map below, 32% of the total alcohol-related fatalities occurred in only 6 of Pennsylvania's 67 counties. These 6 counties appear in black on the map.



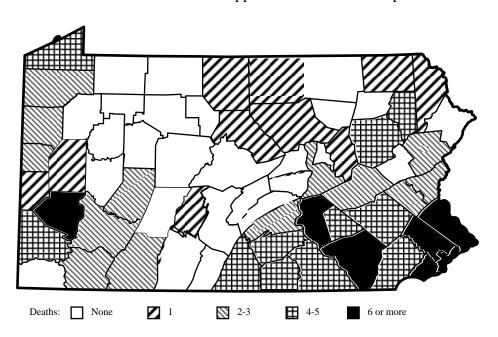
Percent Seat Belt Use in Crashes by County

The percentage of seat belt use in crashes tended to be lower in counties with major urban areas; even some rural areas also had lower seat belt use in crashes. Below the one county having 74% or less seat belt use in crashes is shown in black on the map.



Pedestrian Fatalities by County

Referring to the map below, 55% of the total pedestrian fatalities occurred in only 7 of Pennsylvania's 67 counties. These 7 counties appear in black on the map.

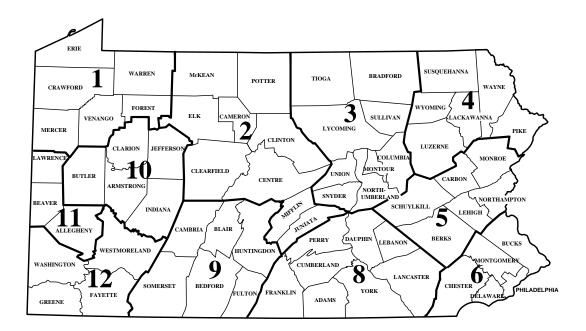


Countie

Crashes by Engineering District

The map below illustrates the 11 PENNDOT engineering districts in Pennsylvania. The table below lists a breakdown of the number of crashes, fatalities, and injuries in 2018 by engineering district.

District	Crashes	Fatalities	Injuries
01	5,562	61	3,307
02	3,961	56	2,231
03	4,793	67	2,668
04	8,225	75	4,849
05	17,374	145	10,175
06	36,299	272	26,127
08	21,621	221	12,142
09	5,000	51	2,732
10	3,947	50	2,080
11	14,500	100	7,944
12	7,049	92	3,964
Total	128,420	1,190	78,219



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NEW 2018 Pennsylvania Crash Facts & Statistics Feedback Survey

The 2018 edition of the *Pennsylvania Crash Facts and Statistics* booklet continues to use the format that began with the 1996 edition. In our continuing effort to make this booklet as useful as possible, we would appreciate your taking the time to fill out this survey. Your opinions will help shape future editions including a planned major revision in the next few years.

Does this booklet provide information which is useful to you? (check one) ☐ Yes ☐ No What information would you like to see included in a new version?							
Is the format easy to follow? (check may be electronic and possibly into better and easier for you?							
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Alcohol-Related Crashes							
Seat Belt, Child Safety Seats, etc.							
Pedestrians and Bicycle Crashes							
Crashes by Motor Vehicle Type							
Pennsylvania County Crashes							
Index							
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Thank you for your involvement and response.

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2018 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 injury 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.

Pennsylvania Department of Transportation Bureau of Maintenance And Operations P.O. Box 2047 Harrisburg, PA 17105-2047

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