

# 2016

# PENNSYLVANIA<br/>CRASH FACTS<br/>& STATISTICS



Governor
Tom Wolf

Secretary of Transportation **Leslie S. Richards** 

#### Introduction

The **2016 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 <a href="http://www.dotcrashinfo.pa.gov">http://www.dotcrashinfo.pa.gov</a>

This publication is a statistical review of reportable motor vehicle crashes in the Commonwealth of Pennsylvania for calendar year 2016. 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 that report the crashes that make it to 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 more 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 young driver. In 2016 the percentage of young drivers involved in crashes was 12.8 percent. Crashes involving young drivers are a special concern to the Pennsylvania Department of Transportation. Additional information on crashes involving young drivers can be found on pages 10, 24 - 26 and 31 - 33.

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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, etc.

**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 non-fixed object. These events include explosion, fire, overturn, immersion and vehicle struck by flying object.



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



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



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



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



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

#### Crash Severity

**Fatal Crash:** A crash in which one or more of the involved persons died within 30 days of the crash and the 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 his/her 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% (39,756 miles\*) are state highways maintained by the Pennsylvania Department of Transportation (PennDOT), and the remaining 67% (80,334 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 2016, there were 129,395 reportable traffic crashes in Pennsylvania. These crashes claimed the lives of 1,188 people and injured another 82,971 people. To add some perspective, the 2016 total of reportable traffic crashes is the thirteenth lowest total since 1950 when 113,748 crashes were reported.

Last year, there were approximately 100.9 billion vehicle-miles\* of travel on Pennsylvania's roads and highways. The 2016 fatality rate of 1.18 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.

#### 2016 Briefs

#### On Average in Pennsylvania:

- Each day 355 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 227 persons were injured in reportable crashes (about 9 injuries every hour).

#### Based on Pennsylvania's 2016 population (12,784,227 people):

- 1 out of every 43 people was involved in a reportable traffic crash.
- 1 out of every 10,761 people was fatally injured in a reportable traffic crash.
- 1 out of every 154 people was injured in a reportable traffic crash.

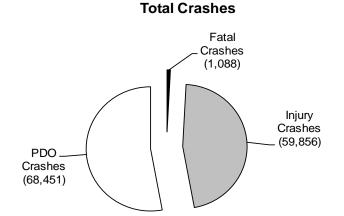
<sup>\*</sup> For consistency purposes, the prior year's data is used at the time of publication because of timing issues. For this Crash Facts & Statistics book, 2015 information was used.

# All Crashes and Fatalities —WHO WAS INVOLVED—

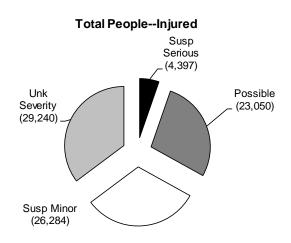
# Crashes by Injury Severity

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 2016, most were not injured. The 1,188 fatalities in 2016 represent the lowest number of fatalities in Pennsylvania motor vehicle crashes over the last 86 years.



# Fatalities (1,188) No Injuries (82,971)



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 2016 increased 1.8% compared to 2015; fatalities decreased by 1.0% while total injuries increased by 1.2%.

	2012	2013	2014	2015	2016
Reported Crashes	124,092	124,149	121,317	127,127	129,395
Total Fatalities	1,310	1,208	1,195	1,200	1,188
Total Injuries	86,846	83,089	79,758	82,004	82,971
Suspected Serious Injury	<i>3,458</i>	3,254	3,042	3,030	4,397
Suspected Minor Injury	13,519	12,662	12,075	12,503	26,284
Possible Injury	43,441	41,755	40,071	40,364	23,050
Unknown Severity	26,428	25,418	24,570	26,107	29,240
Pedestrian Fatalities	168	151	166	153	172
Pedestrian Injuries	4,548	4,413	3,985	4,002	4,218
Motorcyclist Fatalities	210	181	186	179	192
Motorcyclist Injuries	3,919	3,322	3,207	3,312	3,321
Bicyclist Fatalities	16	11	19	16	16
Bicyclist Injuries	1,377	1,374	1,298	1,268	1,298
Heavy-Truck-Related Fatalities	159	147	151	149	162
Alcohol-Related Fatalities	404	381	333	345	297
Speed-Related Fatalities	371	322	312	302	316
Billions of Vehicle-Miles*	100.2	99.5	98.6	99.8	100.9
Deaths per 100 Million Vehicle-Miles*	1.31	1.21	1.21	1.20	1.18

*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
Severity	Number	<b>Average Cost</b>	Costs
Fatalities (persons)	1,188	\$6,685,345	\$7,942,189,658
Suspected Serious Injury (persons)	4,397	\$1,478,907	\$6,502,754,255
Suspected Minor Injury (persons)	26,284	\$99,235	\$2,608,280,387
Possible Injury (persons)	23,050	\$7,755	\$178,752,750
Property Damage Only (crashes)	68,447	\$3,102	\$212,322,594
Unknown Severity (persons)	29,240	\$7,755	\$226,756,200
		TOTAL	\$17,671,055,843

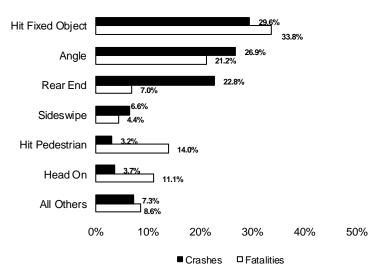
In 2016, the economic loss due to traffic crashes was \$1,382 to every man, woman, and child in Pennsylvania.

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 fatality in 2016.

<sup>\*</sup> 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.

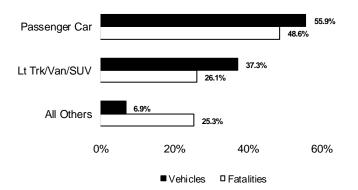


Crash Type	Crashes	Fatalities
Angle	34,811	252
Backing Up	388	1
Head On	4,764	132
Hit Fixed Object	38,244	401
Hit Pedestrian	4,099	166
Non-Collision	4,318	84
Rear End	29,511	83
Sideswipe	8,530	52
Other	4,730	17
TOTAL	129,395	1,188

\*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 2016 were involved in a higher percentage of crashes. Occupant fatalities of motorcycles increased from 179 in 2015 to 192 in 2016.

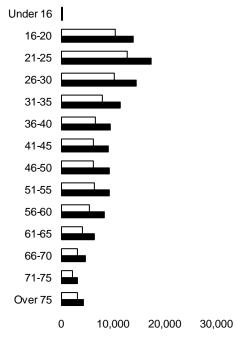


		Occupant
	Vehicles	<b>Fatalities</b>
Passenger Car	120,817	494
Lt Trk/Van/SUV	80,599	265
Heavy Truck	7,366	26
Motorcycle	3,547	192
Bicycle	1,316	16
Commercial Bus	593	1
School Bus	349	0
Other	1,648	22

# Driver Involvement in Crashes by Age and Sex

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

			Total
Driver	Male	Female	Drivers
Under 16	115 (0.1%)	35 (0.0%)	150
16-20	14,002 (11.4%)	10,514 (12.1%)	24,516
21-25	17,470 (14.2%)	12,924 (14.9%)	30,394
26-30	14,537 (11.8%)	10,403 (12.0%)	24,940
31-35	11,551 (9.4%)	8,125 (9.4%)	19,676
36-40	9,537 (7.7%)	6,684 (7.7%)	16,221
41-45	9,102 (7.4%)	6,347 (7.3%)	15,449
46-50	9,400 (7.6%)	6,343 (7.3%)	15,743
51-55	9,379 (7.6%)	6,457 (7.5%)	15,836
56-60	8,459 (6.9%)	5,490 (6.3%)	13,949
61-65	6,502 (5.3%)	4,217 (4.9%)	10,719
66-70	4,679 (3.8%)	3,184 (3.7%)	7,863
71-75	3,109 (2.5%)	2,274 (2.6%)	5,383
Over 75	4,339 (3.5%)	3,278 (3.8%)	7,617
Unknown	1,026 (0.8%)	355 (0.4%)	1,381
DRIVERS	123,207 (100.0%)	86,630 (100.0%)	209,837



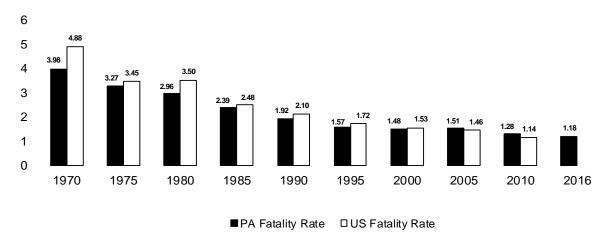
*Note:* Does not include 3,434 drivers of unknown sex or drivers of non-motorized vehicles.

#### □Female ■Male

# 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 2016 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\*



<sup>\*</sup> 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).

V	Tatal Greeker	Total	Total Introduc	Registered	Motor Vehicle	PA Fatality	US Fatality
<b>Year</b> 1949	Total Crashes 102,098	Fatalities 1,624	Total Injuries 54,290	Vehicles 2,993,903	Mileage* 25.8	Rate** 6.30	Rate** 7.50
1949	113,748	1,624	62,103	3,262,243	27.1	6.00	7.60
1951	123,088	1,642	65,643	3,413,836	28.8	5.70	7.10
1952	126,820	1,680	67,143	3,510,064	30.5	5.50	7.10
1953	129,791	1,643	70,531	3.684.468	31.6	5.20	6.70
1954	130,326	1,538	68,571	3,903,917	32.0	4.80	6.10
1955	147,837	1,737	76,836	4,045,995	34.5	5.00	6.10
1956	160,371	1,790	84,813	4,175,217	36.5	4.90	6.10
1957	161,080	1,698	84,755	4,250,576	37.7	4.50	5.80
1958	156,825	1,654	86,733	4,355,813	38.5	4.30	5.40
1959	157,191	1,685	90,807	4,507,262	39.2	4.30	5.40
1960	159,051	1,609	92,792	4,707,055	40.2	4.00	5.30
1961	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 1966	213,769	2,079 2,180	111,123 116,537	5,436,349	48.3	4.30 4.27	5.60 5.70
1966	254,450 243,798	2,180	126,417	5,497,000 5,673,000	55.1 53.4	4.27	5.50
1967	243,798 279,663	2,331	138,389	5,791,000	53.4 56.1	4.37	5.40
1969	292,192	2,401	141,728	5,879,000	58.6	4.10	5.21
1970	311,981	2,255	136,518	5,947,000	56.7	3.98	4.88
1971	301,374	2,299	127,318	6,079,000	60.9	3.78	4.57
1972†	277,556	2,352	135,938	6,244,000	67.0	3.51	4.43
1973	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	148,725	8,833,745	72.3	2.87	3.35
1978‡	158,361	2,137	146,403	7,254,893	72.7	2.94	3.39
1979	156,622	2,204	144,300	7,451,021	70.3	3.14	3.50
1980	142,489	2,114	133,716	7,307,974	71.3	2.96	3.50
1981	138,764	2,049	131,301	7,252,836	71.5	2.87	3.30
1982	131,579	1,848	126,026	7,417,311	71.3	2.59	2.88
1983	131,081	1,752	126,707	7,562,726	72.3	2.42	2.69
1984 1985	139,914	1,752	134,714	7,724,686	74.1	2.36	2.68
1985	143,244 150,683	1,809 1,928	140,067 148,044	7,860,497 7,793,921	75.6 77.2	2.39 2.50	2.48 2.48
1987	152,631	2,006	151,457	8,313,799	78.9	2.54	2.40
1988	152,906	1,932	154,018	8,452,365	81.3	2.38	2.32
1989	151,461	1,878	152,589	8,605,747	84.5	2.22	2.20
1990	141,340	1,646	142,945	8,675,835	85.7	1.92	2.10
1991	130,404	1,661	130,446	8,757,129	87.3	1.90	1.90
1992	133,913	1,545	133,113	8,915,621	89.0	1.74	1.80
1993	134,315	1,530	131,503	9,044,901	90.8	1.68	1.80
1994	134,171	1,440	130,678	9,255,714	92.3	1.56	1.83
1995	136,804	1,480	133,177	9,271,517	94.5	1.57	1.72
1996	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 1,490	112,615 108,146	10,768,222 10,921,683	104.8 106.1	1.50 1.40	1.48 1.46
2004	132,840	1,490	108,146	11,058,567	107.2	1.40	1.46
2005	128,342	1,525	97,971	11,086,810	107.2	1.41	1.41
2007	130,675	1,491	95,585	11,220,816	107.5	1.38	1.36
2007	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	124,092	1,310	86,846	11,508,559	100.2	1.31	1.16
2013	124,149	1,208	83,089	11,616,715	99.5	1.21	1.10
2014	121,317	1,195	79,758	11,715,722	98.6	1.21	1.07
2015	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	
	h:11:						<u> </u>

<sup>\*</sup> In billions

<sup>\*\*</sup> Per 100 million vehicle-miles

 $<sup>\</sup>dagger$   $\,$  From 1972 to 1978, reportable crashes defined as over \$200 in damage

<sup>‡</sup> 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

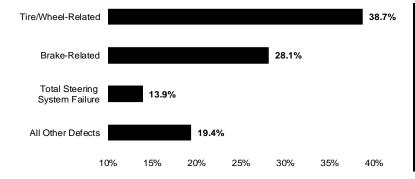
Adverse weather and road surface conditions negatively affect vehicle handling and driver sight. Interestingly, the vast majority of crashes occurred under no adverse conditions. This can be attributed to: 1) weather and roads being clear and dry most of the time and 2) drivers failing to use caution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

Weather Condition	Crashes	<b>Fatalities</b>
No Adverse Conditions	105,846 (81.8%)	1,033 (87.0%)
Rain/Rain & Fog	14,606 (11.3%)	102 (8.6%)
Snow/Sleet/Freezing Rain	7,132 (5.5%)	32 (2.7%)
Fog/Smoke, Etc.	627 (0.5%)	14 (1.2%)
Other	1,184 (0.9%)	7 (0.6%)
TOTAL	129,395 (100.0%)	1,188 (100.0%)

Road Surface Condition	Crashes	<b>Fatalities</b>
Dry	99,039 (76.5%)	980 (82.5%)
Wet	20,515 (15.9%)	170 (14.3%)
Snow/Slush	5,302 (4.1%)	14 (1.2%)
Ice/Ice Patches	3,866 (3.0%)	17 (1.4%)
Other	673 (0.5%)	7 (0.6%)
TOTAL	129,395 (100.0%)	1,188 (100.0%)

# Crashes Involving Vehicle Defects

Improperly-maintained vehicles can lead to crashes. In 2016, 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.

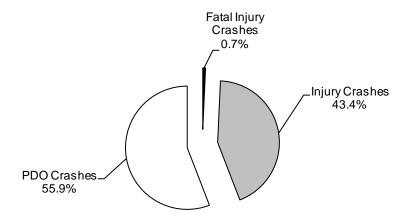


Vehicle Defect	Crashes
Tire/Wheel-Related	996
Brake-Related	723
Total Steering System Failure	357
Power Train Failure	265
Suspension	86
Unsecure/Shifted Trailer Load	42
Body/Doors/Hood, Etc.	33
Vehicle Lighting-Related	20
Other Known Defects	52

**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. 44 percent of work zone crashes in 2016 contained fatalities or injuries.



Total Crashes: 2,075

Total Fatally Injured: **16** (Workers Fatally Injured: 2)

Total Injured: 1,273

#### Work Zone Crashes—Vehicles Involved

Vehicle Type	State Hwy (Interstate)	State Hwy (Other)	Turnpike	Local Road
Passenger Car	609 (46.5%)	966 (52.6%)	197 (35.4%)	67 (46.9%)
Light Truck/SUV	462 (35.3%)	724 (39.4%)	180 (32.4%)	59 (41.3%)
Heavy Truck/Bus	205 (15.7%)	104 (5.7%)	169 (30.4%)	11 (7.7%)
Motorcycle	20 (1.5%)	26 (1.4%)	5 (0.9%)	2 (1.4%)
Other	14 (1.1%)	16 (0.9%)	5 (0.9%)	4 (2.8%)
TOTAL	1,310 (100.0%)	1,836 (100.0%)	556 (100.0%)	143 (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\*

		Crasl	hes	Fatal	ities
Year	Road Type	Number	% Total	Number	% Total
	State Hwy (Interstate)	390	23.5%	4	19.1%
	State Hwy (Other)	928	55.9%	15	71.4%
2012	Turnpike	228	13.7%	2	9.5%
	Local Road	115	6.9%	0	0.0%
	Other/Unknown Road	0	0.0%	0	0.0%
	TOTAL	1,661	100.0%	21	100.0%
	State Hwy (Interstate)	506	27.4%	3	18.8%
	State Hwy (Other)	958	51.9%	11	68.8%
2013	Turnpike	269	14.6%	2	12.5%
	Local Road	112	6.1%	0	0.0%
	Other/Unknown Road	0	0.0%	0	0.0%
	TOTAL	1,845	100.0%	16	100.0%
	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%

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

<sup>\*</sup>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	<b>Fatalities</b>	% Total
Hit Bridge	604	0.5%	14	1.2%
Hit Building	1,366	1.1%	18	1.5%
Hit Culvert	731	0.6%	21	1.8%
Hit Curb	4,082	3.2%	55	4.6%
Hit Ditch	3,090	2.4%	28	2.4%
Hit Embankment	6,760	5.2%	114	9.6%
Hit Fence or Wall	2,781	2.2%	32	2.7%
Hit Fire Hydrant	444	0.3%	6	0.5%
Hit Guiderail	6,688	5.2%	129	10.9%
Hit Impact Attenuator	189	0.2%	3	0.3%
Hit Mailbox(es)	1,329	1.0%	23	1.9%
Hit Median Barrier	4,564	3.5%	32	2.7%
Hit Other Fixed Object	4,027	3.1%	63	5.3%
Hit Parked Vehicle	7,995	6.2%	44	3.7%
Hit Rock(s) or Obstacle on Roadway	511	0.4%	1	0.1%
Hit Signal/Sign Support	2,396	1.9%	50	4.2%
Hit Snow Bank	261	0.2%	5	0.4%
Hit Temporary Construction Barrier	68	0.1%	0	0.0%
Hit Traffic Island or Channelization	228	0.2%	3	0.3%
Hit Tree(s) or Shrubs/Hedges	8,849	6.8%	214	18.0%
Hit Utility Pole(s)	8,852	6.8%	99	8.3%
Turo De constante de la consta	4.040	0.40/	40	4.00/
Hit Deer	4,018	3.1%	12	1.0%
Hit Other Animal	205	0.2%	1	0.1%

*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	10,688	83,882	2,498	32,309	18
Persons Fatally Injured	107	884	17	180	0
Persons Injured	6,147	55,908	1,076	19,834	14
Miles of Maintained Road	1,374	39,206	554	79,765	
100 MVM* Traveled	201.1	567.8	60.1	180.4	
Crashes/MVM*	0.53	1.48	0.42	1.79	
Persons Fatally Injured/100 MVM*	0.53	1.56	0.28	1.00	
Persons Injured/MVM*	0.31	0.98	0.18	1.10	

<sup>\*</sup> MVM = million vehicle-miles

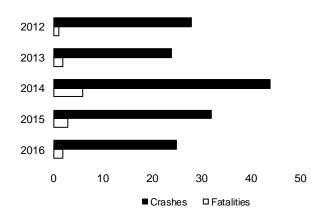
*Note:* "State Highway (Other)" includes state-maintained roads that are not designated as interstates. The road mileage and MVM data are from the 2015 Highway Performance Monitoring System (HPMS) package and reflects 2015 length and travel activity data. Ramps are included as part of the roadway to 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

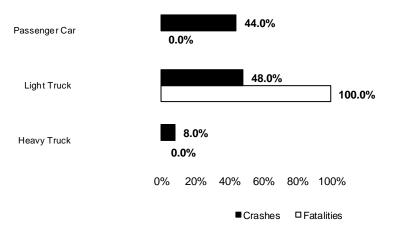
Motor vehicle/train crashes make up a very small percentage of total crashes. In the last five years, only 14 fatalities have occurred in this type of crash. In 2016, two fatalities occurred.



I	Year	Crashes	<b>Fatalities</b>
ı	2012	28	1
ı	2013	24	2
ı	2014	44	6
ı	2015	32	3
	2016	25	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 2016. In 2016, heavy truck involvement with trains decreased to 2 crashes from 3 in 2015.



Vehicle Type	Crashes	Fatalities
Light Truck	12	2
Passenger Car	11	0
Heavy Truck	2	0
Bicycle	0	0
Commercial Bus	0	0
Motorcycle	0	0
School Bus	0	0
Unknown	0	0
TOTAL	25	2

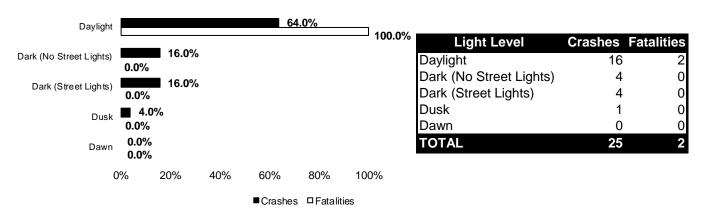
# All Crashes

# Train/Vehicle Crashes by Road Type\*

Road Type	Crashes	<b>Fatalities</b>
Local Road	16	2
State Hwy (Other)	9	0
TOTAL	25	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



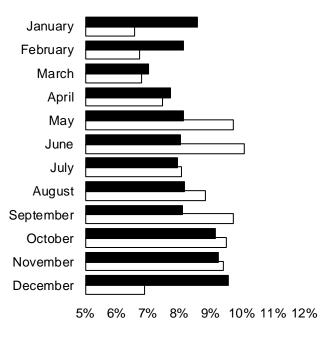
# Train/Vehicle Crashes by County

Berks       1       0         Blair       1       0         Butler       1       0         Cumberland       1       0         Dauphin       1       1         Delaware       1       0         Erie       1       1         Franklin       1       0         Greene       1       0         Jefferson       1       0         Lackawanna       1       0         Lancaster       1       0         Lehigh       1       0	County	Crashes	<b>Fatalities</b>
Blair       1       0         Butler       1       0         Cumberland       1       0         Dauphin       1       1         Delaware       1       0         Erie       1       1         Franklin       1       0         Greene       1       0         Jefferson       1       0         Lackawanna       1       0         Lancaster       1       0         Lehigh       1       0	Allegheny	6	0
Butler       1       0         Cumberland       1       0         Dauphin       1       1         Delaware       1       0         Erie       1       1         Franklin       1       0         Greene       1       0         Jefferson       1       0         Lackawanna       1       0         Lancaster       1       0         Lehigh       1       0	Berks	1	0
Cumberland       1       0         Dauphin       1       1         Delaware       1       0         Erie       1       1         Franklin       1       0         Greene       1       0         Jefferson       1       0         Lackawanna       1       0         Lancaster       1       0         Lehigh       1       0	Blair	1	0
Dauphin       1       1         Delaware       1       0         Erie       1       1         Franklin       1       0         Greene       1       0         Jefferson       1       0         Lackawanna       1       0         Lancaster       1       0         Lehigh       1       0	Butler	1	0
Delaware       1       0         Erie       1       1         Franklin       1       0         Greene       1       0         Jefferson       1       0         Lackawanna       1       0         Lancaster       1       0         Lehigh       1       0	Cumberland	1	0
Erie       1       1         Franklin       1       0         Greene       1       0         Jefferson       1       0         Lackawanna       1       0         Lancaster       1       0         Lehigh       1       0	Dauphin	1	1
Franklin       1       0         Greene       1       0         Jefferson       1       0         Lackawanna       1       0         Lancaster       1       0         Lehigh       1       0	Delaware	1	0
Greene       1       0         Jefferson       1       0         Lackawanna       1       0         Lancaster       1       0         Lehigh       1       0	Erie	1	1
Jefferson         1         0           Lackawanna         1         0           Lancaster         1         0           Lehigh         1         0	Franklin	1	C
Lackawanna10Lancaster10Lehigh10	Greene	1	0
Lancaster 1 C	Jefferson	1	0
Lehigh 1 C	Lackawanna	1	0
_	Lancaster	1	0
Luzerne 2 C	Lehigh	1	0
	Luzerne	2	C

County	Crashes	<b>Fatalities</b>
Mercer	1	0
Northumberland	1	0
Washington	1	0
Westmoreland	1	0
Cambria	0	0
Cameron	0	0
Carbon	0	0
Centre	0	0 0
Chester	0	0
Clarion	0	0
Clearfield	0	0
TOTAL	25	2

#### —WHEN THEY HAPPENED—

# Crashes by Month

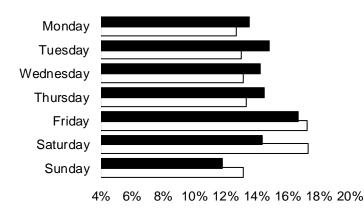


Month	Crashes	<b>Fatalities</b>
January	11,137 (8.6%)	78 (6.6%)
February	10,533 (8.1%)	80 (6.7%)
March	9,107 (7.0%)	81 (6.8%)
April	10,006 (7.7%)	89 (7.5%)
May	10,552 (8.2%)	116 (9.8%)
June	10,430 (8.1%)	120 (10.1%)
July	10,288 (8.0%)	96 (8.1%)
August	10,588 (8.2%)	105 (8.8%)
September	10,490 (8.1%)	116 (9.8%)
October	11,854 (9.2%)	113 (9.5%)
November	12,001 (9.3%)	112 (9.4%)
December	12,409 (9.6%)	82 (6.9%)
TOTAL	129,395 (100.0%)	1,188 (100.0%)

■ Crashes □ Fatalities

# 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).

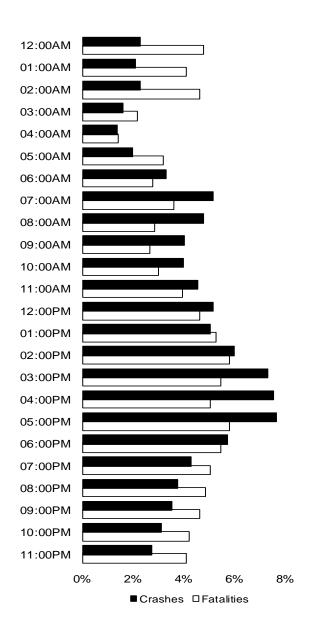


Day	Crashes	<b>Fatalities</b>
Monday	17,513 (13.5%)	151 (12.7%)
Tuesday	19,173 (14.8%)	155 (13.1%)
Wednesday	18,447 (14.3%)	156 (13.1%)
Thursday	18,791 (14.5%)	159 (13.4%)
Friday	21,620 (16.7%)	205 (17.3%)
Saturday	18,598 (14.4%)	206 (17.3%)
Sunday	15,253 (11.8%)	156 (13.1%)
TOTAL	129,395 (100.0%)	1,188 (100.0%)

■ Crashes □ Fatalities

# Crashes by Hour of Day

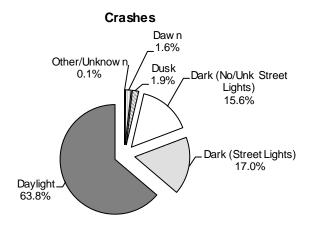
Some hours of the day are more dangerous than others with regard to crashes and fatalities. Not surprisingly, crashes and fatalities were higher during peak traffic times. Some hours of the day experience a low percentage of crashes, but they are much more deadly. For example, only 4.3% of all crashes in 2016 occurred in the 7:00 PM hour, but 5.1% of all fatalities —the fourth highest percentage—occurred then. The higher volume of traffic itself is a factor during peak traffic hours, particularly the rush-hours.

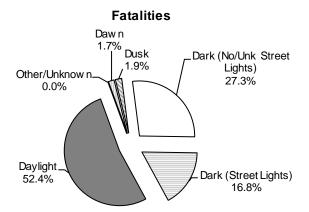


Hour	Crashes	Fatalities
12:00AM	2,955	57
01:00AM	2,719	49
02:00AM	2,949	55
03:00AM	2,068	26
04:00AM	1,769	17
05:00AM	2,589	38
06:00AM	4,272	33
07:00AM	6,687	43
08:00AM	6,193	34
09:00AM	5,204	32
10:00AM	5,188	36
11:00AM	5,930	47
12:00PM	6,675	55
01:00PM	6,563	63
02:00PM	7,773	69
03:00PM	9,489	65
04:00PM	9,787	60
05:00PM	9,948	69
06:00PM	7,411	65
07:00PM	5,557	60
08:00PM	4,863	58
09:00PM	4,591	55
10:00PM	4,031	50
11:00PM	3,530	49

# Crashes by Light Level

In 2016, 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 2016 occurred slightly less often during non-daylight hours (dark and dusk/dawn conditions). If 2016 fatalities per 1000 crashes are compared (Daylight—7.5 fatalities per 1000 crashes versus Non-Daylight—12.1 fatalities per 1000 crashes), it is apparent that non-daylight crashes resulted in fatalities more often than daylight crashes.

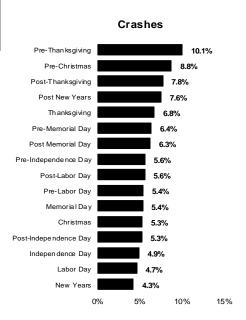




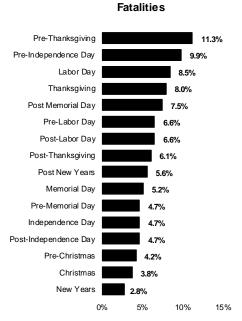
Light Level	Crashes	<b>Fatalities</b>
Daylight	82,502	622
Dark (Street Lights)	22,031	200
Dark (No/Unk Street Lights)	20,142	324
Dusk	2,430	22
Dawn	2,124	20
Other/Unknown	166	0
TOTAL	129,395	1,188

# 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 2016.



Period*	Crashes	<b>Fatalities</b>
New Years	787	6
Post New Years	1,392	12
Pre-Memorial Day	1,177	10
Memorial Day	988	11
Post Memorial Day	1,155	16
Pre-Independence Day	1,041	21
Independence Day	906	10
Post-Independence Day	969	10
Pre-Labor Day	1,002	14
Labor Day	860	18
Post-Labor Day	1,037	14
Pre-Thanksgiving	1,854	24
Thanksgiving	1,248	17
Post-Thanksgiving	1,429	13
Pre-Christmas	1,623	9
Christmas	981	8
TOTAL	18,449	213



- \* See Holidays under **Definitions** for explanation of pre- and post-holiday weekends.
- \*\* Not part of a holiday weekend in 2016.

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

# Crashes Involving Driver Error

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

		Fatal
Contributing Factor	Crashes	Crashes
Speed-Related	31,083	458
Drinking Driver	9,221	150
Distracted Driver	16,036	61
Improper Turning-Related	14,123	61
Proceeded Without Clearance	9,004	60
Careless/Illegal Passing	4,665	41
Drowsy Drivers	2,625	25
Tailgating	6,879	7

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

# Single and Multiple Vehicle Crashes of Young and Mature Drivers

As the table below shows, mature drivers are over-represented in multiple vehicle crashes, due in part to the loss of physical and cognitive abilities. 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)	Mature Drivers (65-74)	Mature Drivers (75+)
Single	44.1%	37.1%	20.4%	20.2%
Vehicle Crash	56,940 crashes	10,742 crashes	2,779 crashes	1,668 crashes
Multiple	55.9%	62.9%	79.6%	79.8%
Vehicle Crash	72,258 crashes	18,186 crashes	10,840 crashes	6,572 crashes

#### Drivers in Crashes by Age Group

Looking at the 2016 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	1,942	72,452	2.7%
17	4,732	107,468	4.4%
18	5,588	118,741	4.7%
19	5,268	125,537	4.2%
20	5,334	130,034	4.1%
21	5,503	134,293	4.1%
22-24	16,393	421,070	3.9%
25-29	23,599	742,730	3.2%
30-39	33,810	1,416,209	2.4%
40-54	42,273	2,252,847	1.9%
55-59	13,103	880,245	1.5%
60-64	10,463	807,428	1.3%
65-69	7,751	679,976	1.1%
70-74	5,337	484,490	1.1%
75 and Over	8,037	770,185	1.0%
Unknown	33	N/A	N/A

<sup>\*</sup> 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 Mature Drivers by Crash Type

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

		Young Drivers	Mature Drivers	Mature Drivers
Crash Type	All Drivers	(16-21)	(65-74)	(75+)
Non-Collision	3.3%	2.6%	2.1%	1.0%
	4,310 crashes	747 crashes	279 crashes	80 crashes
Rear-End	22.8%	25.2%	28.8%	23.0%
	29,499 crashes	7,300 crashes	3,927 crashes	1,892 crashes
Head-On	3.7%	4.2%	4.7%	5.2%
	4,754 crashes	1,211 crashes	643 crashes	432 crashes
Backing Up	0.3%	0.2%	0.4%	0.4%
	387 crashes	56 crashes	60 crashes	30 crashes
Angle	26.9%	30.0%	39.6%	46.6%
	34,794 crashes	8,685 crashes	5,394 crashes	3,840 crashes
Sideswipe	6.6%	5.1%	6.8%	7.0%
	8,517 crashes	1,487 crashes	925 crashes	578 crashes
Hit Fixed Object	29.6%	30.1%	12.7%	13.0%
	38,176 crashes	8,703 crashes	1,728 crashes	1,070 crashes
Hit Pedestrian	3.1%	0.9%	2.4%	2.5%
	4,034 crashes	272 crashes	324 crashes	202 crashes
Other	3.7%	1.6%	2.5%	1.4%
	4,727 crashes	467 crashes	339 crashes	116 crashes

<sup>\*</sup> 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 Mature Drivers

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

	All Drivers	Young Drivers (16-21)	Mature Drivers (65-74)	Mature Drivers (75+)
Intersection	38.3%	40.0%	49.6%	54.0%
	49,487 crashes	11,566 crashes	6,758 crashes	4,447 crashes
Non-Intersection	61.7%	60.0%	50.4%	46.0%
	79,711 crashes	17,362 crashes	6,861 crashes	3,793 crashes

#### Alcohol-Related Crashes

#### **Alcohol Overview**

- ▶ In Pennsylvania, drinking and driving remains a top safety issue. In 2016, alcohol-related crashes decreased to 10,256 from 10,558 alcohol-related crashes in 2015. In 2016, alcohol-related fatalities decreased to 297 from 345 alcohol-related fatalities in 2015.
- ▶ Of particular concern is the involvement of drinking drivers under the age of 21. 12% of the driver fatalities in the 16-20 age group were drinking drivers, down from 16% in 2015. Improvement in this age group is a very important need.
- ▶ Of equal focus is the 21 to 25 age group, in which 29% of the driver fatalities were drinking drivers. This age group had the fifth worst percentage of all groups, and was down from 44% in 2015. The 26 to 30 age group decreased to 32% from 37% in 2015.
- ▶ In 2016, alcohol-related fatalities were 25% of the total traffic fatalities, less than in 2013, 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).

#### 2016 Briefs

- ▶ 297 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; 72% were the drinking drivers themselves.
- ▶ 74% of the drinking drivers in traffic crashes were male.
- ➤ 73% of the alcohol-related crashes were during the hours of darkness, usually on weekends.
- ▶ On average each day, 28 alcohol-related traffic crashes occurred.
- ▶ On average each day, 0.8 persons were fatally injured in alcohol-related traffic crashes.
- ▶ On average each day, 18 persons were injured in alcohol-related traffic crashes.

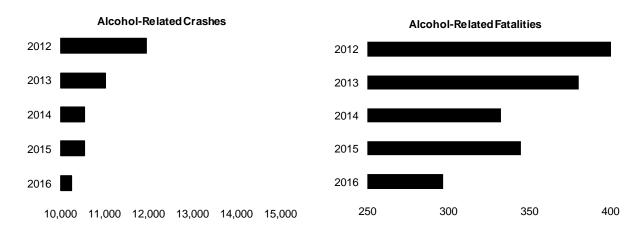
#### Alcohol Involvement in Crashes

Although alcohol-related crashes accounted for approximately 8% of the total crashes in 2016, they resulted in 25% of all persons fatally injured in crashes. Alcohol-related crashes were 3.8 times more likely to result in fatal injury than those not related to alcohol (3.0% 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	270 (24.8%)	297 (25.0%)	4,911 (8.2%)	6,589 (7.9%)	5,075 (7.4%)
Non-Alcohol-Related	818 (75.2%)	891 (75.0%)	54,949 (91.8%)	76,390 (92.1%)	63,364 (92.6%)
TOTAL	1,088 (100.0%)	1,188 (100.0%)	59,860 (100.0%)	82,979 (100.0%)	68,439 (100.0%)

#### Alcohol-Related Crashes—Five-Year Trends

Alcohol-related crashes decreased in 2016, and were the lowest total in the last five years. Alcohol-related fatalities decreased in 2016, and were the lowest total in the last five years. Alcohol-related fatalities are trending downward.



	2012	2013	2014	2015	2016
Crashes	11,956	11,041	10,550	10,558	10,256
Fatal Crashes	375	363	311	321	270
Injury Crashes	6,425	5,864	5,377	5,274	4,911
PDO Crashes	5,156	4,814	4,862	4,963	5,075
Fatalities	404	381	333	345	297
Injuries	8,724	7,900	7,265	7,055	6,589
Fatal Crashes per 100,000					
Licensed Drivers	4.2	4.1	3.5	3.6	3.0
Fatalities per 100,000					
Licensed Drivers	4.6	4.3	3.7	3.9	3.3

#### Victims of Alcohol-Related Fatal Crashes

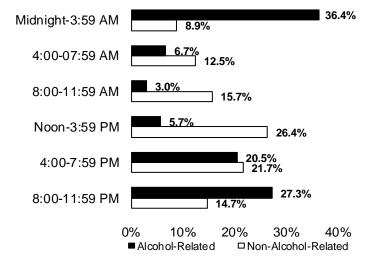
There were 245 driver and passenger fatalities in alcohol-related crashes in 2016, while 221 (90%) were the drinking drivers or their passengers.

Persons Involved	<b>Fatalities</b>
Drivers	190
Drinking Drivers	176 (92.6%)
Non-Drinking Drivers	14 (7.4%)
Passengers	55
Passengers with Drinking Driver	<i>45 (81.8%)</i>
Passengers with Non-Drinking Driver	10 (18.2%)
Pedestrians	49
Drinking Pedestrian	35 (71.4%)
Non-Drinking Pedestrian	14 (28.6%)
TOTAL FATALITIES*	297

<sup>\*</sup>Includes 3 victims, status unknown

# Victims of Fatal Crashes by Time of Day

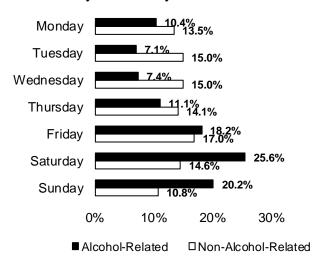
Alcohol-related crashes occurring between 8:00 PM and 4:00 AM produced the vast majority of fatalities (64% of alcohol-related fatalities). In contrast, under half of the fatalities (48%) from non-alcohol-related crashes resulted from crashes occurring between noon and 8:00 PM.



	Non-	
	Alcohol-	Alcohol-
Time of Occurrence	Related	Related
Midnight-3:59 AM	79	108
4:00-07:59 AM	111	20
8:00-11:59 AM	140	9
Noon-3:59 PM	235	17
4:00-7:59 PM	193	61
8:00-11:59 PM	131	81
Time Unknown	2	1
TOTAL FATALITIES	891	297

# Victims of Fatal Crashes by Day of Week

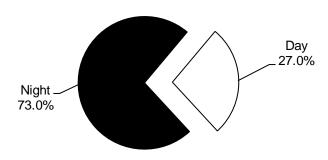
Under half (46%) of alcohol-related fatal crash victims were the result of crashes occurring on Saturday and Sunday, while fatal crash victims of non-alcohol-related crashes tended to be distributed more evenly throughout the work week with the fewest occurring on Monday, Thursday and Sunday.



Day of Occurrence	Non- Alcohol- Related	Alcohol- Related
Monday	120	31
Tuesday	134	21
Wednesday	134	22
Thursday	126	33
Friday	151	54
Saturday	130	76
Sunday	96	60
TOTAL FATALITIES	891	297

# Alcohol-Related Crashes—Day vs. Night

73.0% of alcohol-related crashes occurred at night. The graph below shows the breakdown of alcohol-related crashes by day and night.

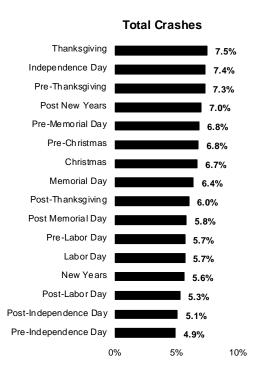


# Alcohol-Related Holiday Crashes

In 2016, 11% of all holiday crashes involved alcohol use; however, 32% of fatalities that occurred during holiday weekends were related to alcohol use. (See *Crashes by Holiday*, page 22.)

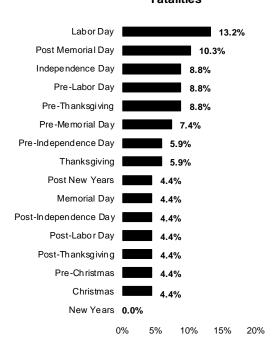
15%

25%



Period*	Crashes	<b>Fatalities</b>
New Years	117	0
Post New Years	146	3
Pre-Memorial Day	142	5
Memorial Day	133	3
Post Memorial Day	121	7
Pre-Independence Day	102	4
Independence Day	153	6
Post-Independence Day	106	3
Pre-Labor Day	118	6
Labor Day	118	9
Post-Labor Day	110	3
Pre-Thanksgiving	152	6
Thanksgiving	156	4
Post-Thanksgiving	125	3
Pre-Christmas	141	3
Christmas	139	3
TOTAL	2,079	68

#### Fatalities



- \* See Holidays under **Definitions** for explanation of pre- and post-holiday weekends.
- \*\* Not part of a holiday weekend in 2016.

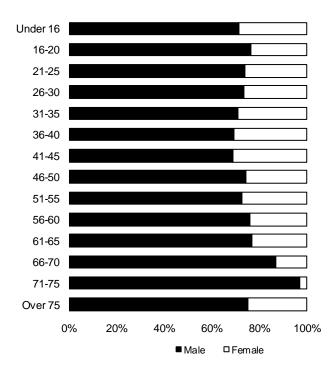
# Driver Involvement in Alcohol-Related Crashes by Vehicle Type

Motorcyclists had the largest percentage of drinking drivers to total drivers compared to the drivers of other types of vehicles. Drinking drivers of passenger cars, light trucks, vans, and sport utility vehicles were equal to or just above 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		120,071
	Lt Trk/SUV/Van		80,113
Total Drivers in Crashes	Heavy Truck		7,271
213,271	Motorcycle		3,539
	Bus		938
	Other		1,339
	Passenger Car	5,871	(4.9% of total)
Drinking Drivers in Crashes 10,059 (4.7% of total)	Lt Trk/SUV/Van	3,803	(4.7% of total)
	Heavy Truck	41	(0.6% of total)
	Motorcycle	274	(7.7% of total)
	Bus	0	(0.0% of total)
	Other	70	(5.2% of total)

# Drinking Drivers in Crashes by Age and Sex

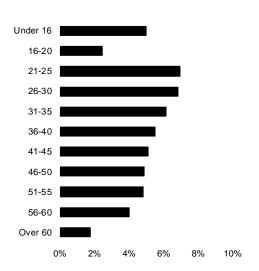
In 2016, roughly 3 out of 4 drinking drivers in crashes were male (across most age groups), with only slight variations among the age groups. The table below does not include an additional 62 drivers for whom age and/or sex were not known.



Age Group	Male	Female	Total
Under 16	5	2	7
16-20	464	140	604
21-25	1,580	546	2,126
26-30	1,267	449	1,716
31-35	863	347	1,210
36-40	624	272	896
41-45	548	243	791
46-50	571	195	766
51-55	556	206	762
56-60	427	132	559
61-65	211	62	273
66-70	154	23	177
71-75	67	2	69
Over 75	31	10	41
Total	7,368	2,629	9,997

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

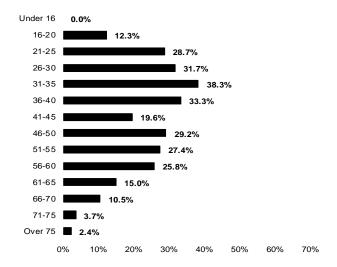
In 2016, as the table and graph below show, the two age groups from 21 to 30 had the highest percentage of drinking drivers within their respective age groups. After age 40, the percentage of drinking drivers within the succeeding age groups steadily declined. The Under 16 age group continues to be of particular concern, as it included 8 drinking drivers.



Age Group	Drinking Driver	Non-Drinking Driver
Under 16	8 (5.0%)	152 (95.0%)
16-20	605 (2.5%)	23,960 (97.5%)
21-25	2,128 (7.0%)	28,359 (93.0%)
26-30	1,718 (6.9%)	23,300 (93.1%)
31-35	1,211 (6.1%)	18,527 (93.9%)
36-40	896 (5.5%)	15,374 (94.5%)
41-45	791 (5.1%)	14,701 (94.9%)
46-50	768 (4.9%)	15,020 (95.1%)
51-55	763 (4.8%)	15,109 (95.2%)
56-60	559 (4.0%)	13,410 (96.0%)
Over 60	562 (1.8%)	31,085 (98.2%)

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

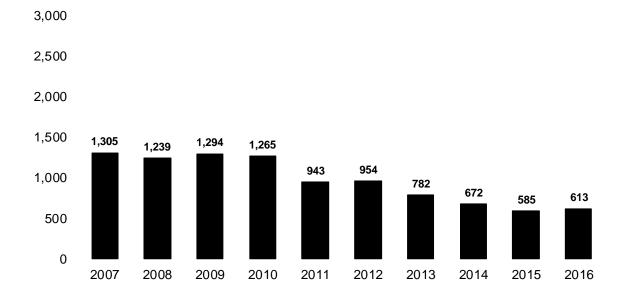
The graph below shows drinking driver fatalities as a percentage of total driver fatalities within each respective age group for 2016 crashes. The age group from 31 to 35 had the highest percentage, with 38% of the driver fatalities in this age group being a drinking driver. The 16-20 age group decreased from 16.0% in 2015. In 2016, 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.

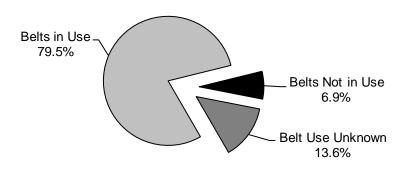
#### Air Bag Safety

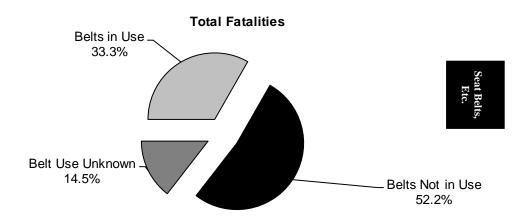
- Driver and front seat passenger air bags have been required in new passenger cars since 1998 and light trucks since 1999. However, air bags are supplemental protection devices. Everyone should still buckle up with both lap and shoulder belts on every trip.
- Child Safety
  - o Children age 12 and under 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
  - 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 2016, as shown in the two pie graphs below, 79.5% of all people involved in crashes were wearing seat belts. 52.2% 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 2016 by severity of injury and belt use.

### **Total People Involved in Crashes**





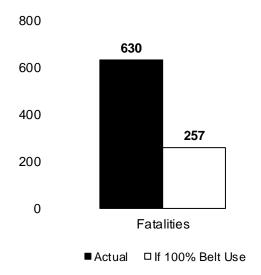
	Belts in Use	Belts Not in Use	Belt Use Unknown
Fatal Injury	261	410	114
Suspected Serious Injury	1,574	1,008	466
Suspected Minor Injury	18,368	2,931	1,916
Possible Injury	15,257	1,667	3,592
Unknown Severity	18,105	2,891	4,853
No Injury	169,897	10,593	27,283
TOTAL	223,462	19,500	38,224

*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 2016 fatalities and injuries if 100% seat belt use was achieved. (*Note*: The data below is for passenger cars, small trucks, SUVs and vans.) The estimated economic savings of 100% seat belt use for occupants of passenger cars, small trucks, SUVs and vans in 2016 would have been \$3,839,451,558 or approximately \$300 for every man, woman, and child in Pennsylvania. More importantly, 373 people would have survived if they had worn their belts.

		Injuries			
	<b>Fatalities</b>	Susp Ser	Susp Min	Possible	None
Belts Used	237	1,487	17,265	31,631	148,536
Belts Not Used	393	966	2,829	4,401	9,467
TOTAL	630	2,453	20,094	36,032	158,003
If 100% Belt Use	257	1,627	18,969	34,407	161,952
Net Increase/(Decrease)	(373)	(826)	(1,125)	(1,625)	3,949



*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

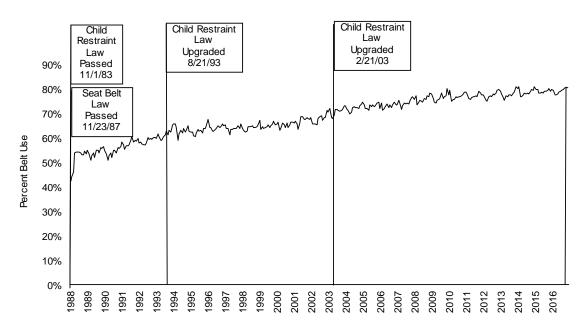
On November 1, 1983, Pennsylvania passed a primary law requiring that drivers secure children under age 4 in an approved child passenger restraint system when riding in a passenger car, Class I truck, Class II truck, classic motor vehicle, antique motor vehicle, or motor home registered in Pennsylvania. 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.

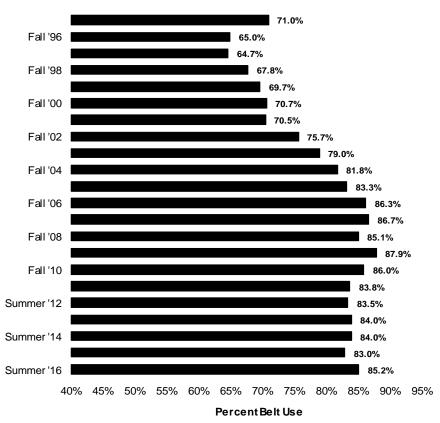
The graph below shows the percentage of seat belt users in Pennsylvania since 1983. A sharp upward trend was experienced in the year following the passage of the seat belt law. The recent trend shows that the usage rate is still on the rise in crashes.



*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 2012-2016 crashes involving children under age 4), the percentages of fatalities and injuries (within restraint type by row) were lower when restraints were used. From 2012-2016, 82% of the children under age 4 who were involved in crashes and restrained in a child seat sustained no injury.

			Injuries				
<b>Child Restraint</b>	Fatalities	Susp Ser	Susp Min	Possible	Unknown	No Injury	Persons
Child Seat In Use	26 (0.1%)	74 (0.3%)	349 (1.3%)	1,722 (6.6%)	2,452 (9.4%)	21,374 (82.2%)	25,997
No Restraint In Use	6 (0.4%)	12 (0.7%)	39 (2.3%)	199 (11.9%)	456 (27.2%)	962 (57.5%)	1,674
Other Restraint In Use	0 (0.0%)	5 (0.3%)	38 (2.5%)	158 (10.6%)	140 (9.4%)	1,156 (77.2%)	1,497

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

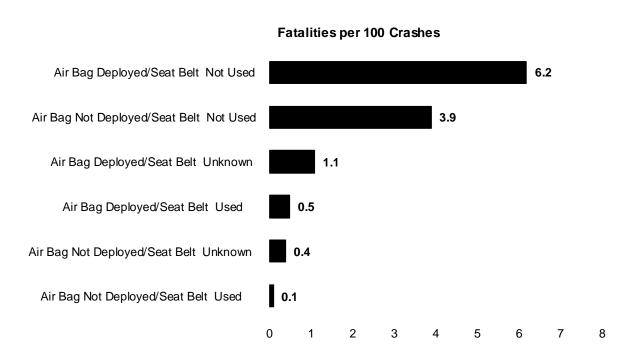
# Etc.

### 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.)

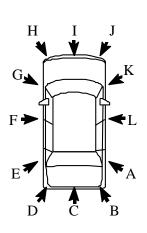
Passive Restaint	Seat Belt		Injuries				Total	
Status	Status	Fatalities	Susp Ser	Susp Min	Possible	Unknown	No Injury	Persons
None	n/a	212 (0.2%)	806 (0.7%)	5,888 (5.4%)	7,660 (7.0%)	11,312 (10.4%)	83,170 (76.3%)	109,048
Air Bag Deployed	Used	153 (0.3%)	964 (1.8%)	8,306 (15.6%)	5,530 (10.4%)	7,819 (14.7%)	30,497 (57.3%)	53,269
Air Bag Deployed	Not Used	221 (4.3%)	510 (9.8%)	1,201 (23.2%)	527 (10.2%)	1,167 (22.5%)	1,558 (30.1%)	5,184
Air Bag Deployed	Unknown	42 (0.7%)	226 (3.5%)	690 (10.8%)	877 (13.7%)	1,815 (28.4%)	2,731 (42.8%)	6,381
Air Bag Not Deployed	Used	39 (0.1%)	264 (0.3%)	5,598 (6.7%)	4,504 (5.4%)	5,458 (6.6%)	67,221 (80.9%)	83,084
Air Bag Not Deployed	Not Used	78 (2.4%)	149 (4.5%)	708 (21.6%)	278 (8.5%)	604 (18.4%)	1,465 (44.6%)	3,282
Air Bag Not Deployed	Unknown	8 (0.2%)	38 (0.9%)	233 (5.7%)	329 (8.0%)	555 (13.5%)	2,944 (71.7%)	4,107
Unknown If Deployed	n/a	16 (0.9%)	36 (2.0%)	159 (8.7%)	138 (7.6%)	331 (18.2%)	1,139 (62.6%)	1,819

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 (6.2 fatalities vs. 0.5 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 2016 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 1408 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)	2,546	843	597 (39.8%)	902 (60.2%)	204
Right Rear (B)	5,715	2,013	663 (20.6%)	2,558 (79.4%)	481
Center Rear (C)	31,438	11,936	1,408 (8.2%)	15,742 (91.8%)	2,352
Left Rear (D)	5,373	1,884	618 (20.1%)	2,459 (79.9%)	412
Left Side Rear (E)	2,565	800	578 (37.2%)	976 (62.8%)	211
Left Side Center (F)	6,631	2,087	1,979 (50.5%)	1,943 (49.5%)	622
Left Side Forward (G)	6,959	2,284	1,683 (41.5%)	2,377 (58.6%)	615
Left Front (H)	27,235	7,998	7,739 (45.9%)	9,125 (54.1%)	2,373
Center Front (I)	66,993	17,251	25,264 (57.6%)	18,586 (42.4%)	5,892
Right Front (J)	25,342	7,390	7,693 (49.7%)	7,797 (50.3%)	2,462
Right Side Forward (K)	10,915	3,670	2,714 (43.7%)	3,493 (56.3%)	1,038
Right Side Center (L)	8,061	2,591	2,304 (49.9%)	2,315 (50.1%)	851
Other	4,814	1,594	822 (38.4%)	1,320 (61.6%)	1,078
None	3,467	1,132	361 (17.9%)	1,652 (82.1%)	322
TOTAL	208,054	63,473	54,423 (43.3%)	71,245 (56.7%)	18,913

### 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 (1.2%)	13 (15.1%)	11 (12.8%)	12 (14.0%)	49 (57.0%)	86
5-8	1 (0.4%)	3 (1.3%)	28 (12.0%)	25 (10.7%)	27 (11.5%)	150 (64.1%)	234
9-12	0 (0.0%)	5 (1.0%)	92 (17.6%)	51 (9.8%)	77 (14.7%)	298 (57.0%)	523
13-64	87 (0.2%)	777 (1.7%)	6,968 (15.0%)	4,692 (10.1%)	6,472 (13.9%)	27,437 (59.1%)	46,433
65-74	27 (0.8%)	104 (3.0%)	692 (19.8%)	405 (11.6%)	684 (19.6%)	1,586 (45.3%)	3,498
75+	38 (1.5%)	74 (3.0%)	513 (20.6%)	346 (13.9%)	547 (21.9%)	977 (39.2%)	2,495
Total	153 (0.3%)	964 (1.8%)	8,306 (15.6%)	5,530 (10.4%)	7,819 (14.7%)	30,497 (57.3%)	53,269

Seat Belts	Not Used						
				Injuries			Total
Age Group	Fatalities	Susp Ser	Susp Min	Possible	Unknown	No Injury	Persons
0-4	0 (0.0%)	0 (0.0%)	2 (18.2%)	1 (9.1%)	3 (27.3%)	5 (45.5%)	11
5-8	0 (0.0%)	1 (7.7%)	5 (38.5%)	1 (7.7%)	2 (15.4%)	4 (30.8%)	13
9-12	0 (0.0%)	4 (28.6%)	2 (14.3%)	1 (7.1%)	3 (21.4%)	4 (28.6%)	14
13-64	171 (3.6%)	469 (9.7%)	1,123 (23.3%)	505 (10.5%)	1,076 (22.3%)	1,477 (30.6%)	4,821
65-74	17 (9.9%)	25 (14.6%)	36 (21.1%)	8 (4.7%)	44 (25.7%)	41 (24.0%)	171
75+	33 (21.4%)	11 (7.1%)	33 (21.4%)	11 (7.1%)	39 (25.3%)	27 (17.5%)	154
Total	221 (4.3%)	510 (9.8%)	1,201 (23.2%)	527 (10.2%)	1,167 (22.5%)	1,558 (30.1%)	5,184

### Peds & Bikes

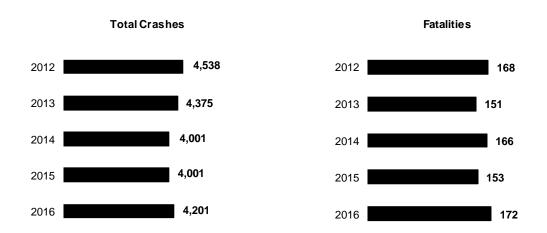
### Pedestrian and Bicycle Crashes

### Pedestrian and Bicycles Overview

- ▶ Pedestrian-related crashes represent 3.2% of the total reported traffic crashes; however, they account for 14.5% of all traffic crash fatalities. (See also *Pennsylvania County Crashes*, pages 62, 63, and 68.)
- ▶ Bicycle crashes represent 1.0% of the total reported crashes and 1.3% of all traffic fatalities. Although these percentages are small, they still represent 16 bicyclist fatalities and 1,298 injuries in 2016.

### 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.

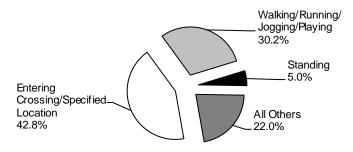


Year	<b>Total Crashes</b>	<b>Fatalities</b>
2012	4,538	168
2013	4,375	151
2014	4,001	166
2015	4,001	153
2016	4,201	172

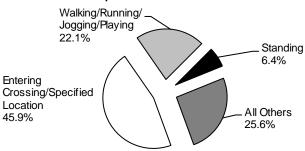
### Pedestrian-Related Crashes

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

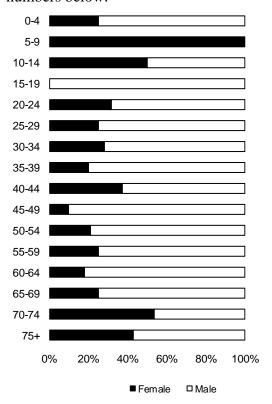


Pedestrian Action	Fatalities	Pedestrians Involved
Entering Crossing/Specified Location	79	1,899
Walking/Running/Jogging/Playing	38	1,342
Working	2	91
Pushing a Vehicle	0	6
Working on Vehicle	2	23
Standing	11	223
Approaching/Leaving a Vehicle	4	157
Other/Unknown	36	697
Total	172	4,438

### Peds & Bikes

### 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 71% of all pedestrian fatalities, and were greater than in 2015 (65%). *Note:* Pedestrians of unknown sex are not included in the numbers below.



Age Group	Female	Male	Total
0-4	1	3	4
5-9	2	0	2
10-14	1	1	2 2 9
15-19	0	9	9
20-24	8	17	25
25-29	3	9	12
30-34	2	5	7
35-39	2	8	10
40-44	3	5	8
45-49	1	9	10
50-54	4	15	19
55-59	3	9	12
60-64	2	9	11
65-69	2	6	8
70-74	7	6	13
75 and over	6	8	14
Unknown	3	3	6
TOTAL	50	122	172

### 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.

<b>Municipality Type</b>	<b>Fatalities</b>	Injuries	Non-Injury	Total
City	73 (42.4%)	2,760 (65.4%)	28 (58.3%)	2,861 (64.5%)
Borough/Town	22 (12.8%)	626 (14.8%)	10 (20.8%)	658 (14.8%)
Township	77 (44.8%)	827 (19.6%)	10 (20.8%)	914 (20.6%)
Other	0 (0.0%)	5 (0.1%)	0 (0.0%)	5 (0.1%)
TOTAL	172 (100.0%)	4,218 (100.0%)	48 (100.0%)	4,438 (100.0%)

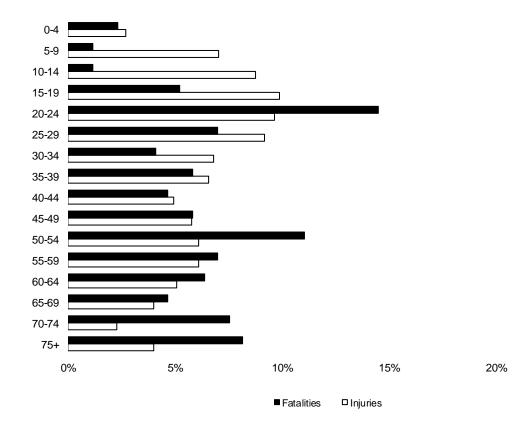
*Note:* "Other" includes colleges/universities, parks, etc.

### 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 28% of the pedestrian injuries.

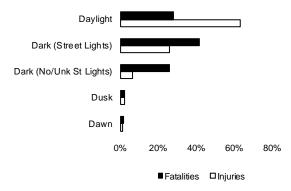
*Note:* The totals in the table do not include an additional 48 pedestrians who were not fatally injured or injured or where their injury severity was unknown.

Pedestrian Age	<b>Fatalities</b>	Injuries
0-4	4 (2.3%)	113 (2.7%)
5-9	2 (1.2%)	296 (7.0%)
10-14	2 (1.2%)	370 (8.8%)
15-19	9 (5.2%)	416 (9.9%)
20-24	25 (14.5%)	407 (9.7%)
25-29	12 (7.0%)	387 (9.2%)
30-34	7 (4.1%)	287 (6.8%)
35-39	10 (5.8%)	277 (6.6%)
40-44	8 (4.7%)	208 (4.9%)
45-49	10 (5.8%)	243 (5.8%)
50-54	19 (11.1%)	257 (6.1%)
55-59	12 (7.0%)	257 (6.1%)
60-64	11 (6.4%)	214 (5.1%)
65-69	8 (4.7%)	169 (4.0%)
70-74	13 (7.6%)	96 (2.3%)
75 and over	14 (8.1%)	169 (4.0%)
Unknown	6 (3.5%)	52 (1.2%)
TOTAL	172 (100.0%)	4,218 (100.0%)



### Pedestrian Fatalities and Injuries by Light Level

The majority of pedestrians were injured in the daytime (63.5%), but more pedestrian fatalities occurred during non-daylight hours (72.1%). 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.

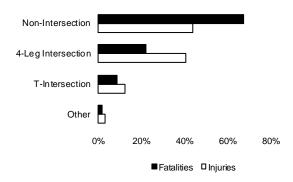


Light Level	<b>Fatalities</b>	Injuries
Dawn	3 (1.7%)	60 (1.4%)
Daylight	48 (27.9%)	2,679 (63.5%)
Dark (Street Lights)	72 (41.9%)	1,091 (25.9%)
Dark (No/Unk St Lights)	45 (26.2%)	274 (6.5%)
Dusk	4 (2.3%)	110 (2.6%)
Other/Unknown	0 (0.0%)	4 (0.1%)
TOTAL	172 (100.0%)	4,218 (100.0%)

*Note:* The totals in the table do not include an additional 48 pedestrians who were not fatally injured or injured or where their injury severity was unknown.

### Pedestrian Fatalities and Injuries by Intersection Type

67.4% of pedestrian fatalities and 43.9% of pedestrian injuries occurred in areas other than intersections. "Non-intersections" as used below includes mid-block crossings, driveway crossings, etc.

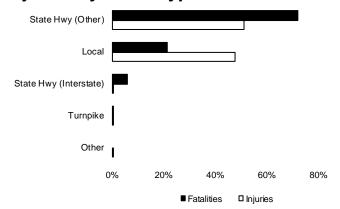


Intersection	Fatalities Injuries	
Non-Intersection	116 (67.4%)	1,853 (43.9%)
4-Leg Intersection	38 (22.1%)	1,710 (40.5%)
T-Intersection	15 (8.7%)	518 (12.3%)
Other	3 (1.7%)	137 (3.3%)
TOTAL	172 (100.0%)	4,218 (100.0%)

*Note:* The totals in the table do not include an additional 48 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, just under half of pedestrians were injured on local roads, whereas the majority of pedestrian fatalities occurred on non-interstate state roadways.



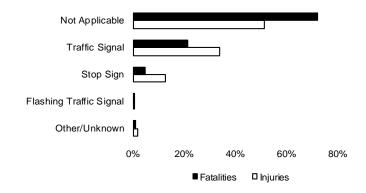
*Note:* The totals in the table do not include an additional 48 pedestrians who were not fatally injured or injured or where their injury severity was unknown.

Road Type	Fatalities Injuries		
State Hwy (Other)	124 (72.1%)	2,162 (51.3%)	
Local	37 (21.5%)	2,019 (47.9%)	
State Hwy (Interstate)	10 (5.8%)	25 (0.6%)	
Turnpike	1 (0.6%)	8 (0.2%)	
Other	0 (0.0%)	4 (0.1%)	
TOTAL	172 (100.0%)	4,218 (100.0%)	

<sup>\*</sup>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 124 pedestrian fatalities and 2,171 injuries.



*Note:* The totals in the table do not include an additional 48 pedestrians who were not fatally injured or injured or where their injury severity was unknown.

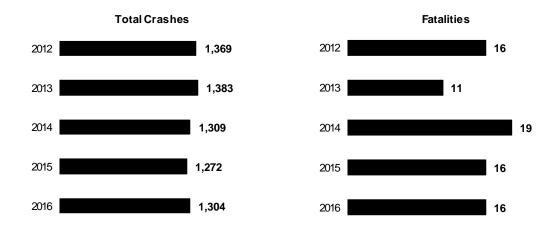
<b>Traffic Control Device</b>	Fatalities Injuries		
Not Applicable	124 (72.1%)	2,171 (51.5%)	
Traffic Signal	37 (21.5%)	1,429 (33.9%)	
Stop Sign	8 (4.7%)	528 (12.5%)	
Flashing Traffic Signal	1 (0.6%)	14 (0.3%)	
Other/Unknown	2 (1.2%)	76 (1.8%)	
TOTAL	172 (100.0%)	4,218 (100.0%)	

### Peds & Bikes

### Bicycle Crashes—Five-Year Trends

The total number of bicycle crashes increased in 2016, but remained very consistent over the last 5 years; bicycle fatalities have fluctuated over the same time period, however, and in 2013 were the lowest.

Year	<b>Total Crashes</b>	<b>Fatalities</b>
2012	1,369	16
2013	1,383	11
2014	1,309	19
2015	1,272	16
2016	1,304	16



### Bicycle Fatalities and Injuries by Age

Children ages 5 to 14 were the most vulnerable to fatal injury and injury while riding a bicycle. A fifth of the injuries involving bicycles were suffered by this age group. 2 of the 16 bicyclist fatalities were in this age group. Another vulnerable group, persons ages 15 to 19, suffered 1 fatality and accounted for 14.6% of the total injuries.

Victim's Age	<b>Fatalities</b>	Injuries
0-4	0 (0.0%)	4 (0.3%)
5-9	0 (0.0%)	67 (5.2%)
10-14	2 (12.5%)	188 (14.5%)
15-19	1 (6.3%)	189 (14.6%)
20-34	2 (12.5%)	429 (33.1%)
35-44	2 (12.5%)	127 (9.8%)
45-54	5 (31.3%)	143 (11.0%)
55-64	3 (18.8%)	101 (7.8%)
65-74	1 (6.3%)	29 (2.2%)
75+	0 (0.0%)	11 (0.9%)
Unknown	0 (0.0%)	10 (0.8%)
TOTAL	16 (100.0%)	1,298 (100.0%)

The totals in the table do not include an additional 12 bicyclists who were not fatally injured or injured or where their injury severity was unknown.

### Bicycle Fatalities and Injuries by Light Level

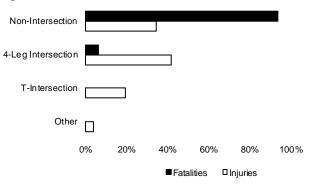
The majority of bicyclists' injuries occurred during daylight hours. However, several of the fatalities occurred during non-daylight conditions. These fatalities totaled 38% of total bicyclists' fatalities in 2016 compared to 44% in 2015.

Light Level	<b>Fatalities</b>	Injuries
Dawn	1 (6.3%)	18 (1.4%)
Daylight	10 (62.5%)	983 (75.7%)
Dark (Street Lights)	3 (18.8%)	226 (17.4%)
Dark (No/Unk St Lights)	2 (12.5%)	39 (3.0%)
Dusk	0 (0.0%)	32 (2.5%)
Other/Unknown	0 (0.0%)	0 (0.0%)
TOTAL	16 (100.0%)	1,298 (100.0%)

*Note:* The totals in the table do not include an additional 12 bicyclists who were not fatally injured or injured or where their injury severity was unknown.

### Bicycle Fatalities and Injuries by Intersection

In 2016, the majority of bicyclists were injured at intersections and fatally injured at non-intersections.



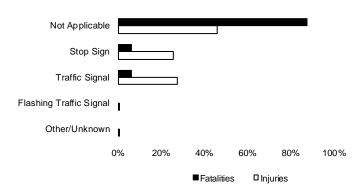
Intersection	<b>Fatalities</b>	Injuries
Non-Intersection	15 (93.8%)	449 (34.6%)
4-Leg Intersection	1 (6.3%)	545 (42.0%)
T-Intersection	0 (0.0%)	254 (19.6%)
Other	0 (0.0%)	50 (3.9%)
TOTAL	16 (100.0%)	1,298 (100.0%)

*Note:* The totals in the table do not include an additional 12 bicyclists who were not fatally injured or injured or where their injury severity was unknown.

### Bicycle Fatalities and Injuries by Traffic Control Device

In 2016, injuries occurred more often at traffic control devices (TCD) than where there were no controls, but 88% of fatalities occurred where there were no controls.

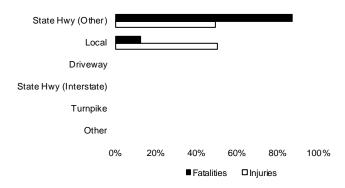
<b>Traffic Control Device</b>	<b>Fatalities</b>	Injuries
Not Applicable	14 (87.5%)	599 (46.2%)
Stop Sign	1 (6.3%)	334 (25.7%)
Traffic Signal	1 (6.3%)	355 (27.4%)
Flashing Traffic Signal	0 (0.0%)	2 (0.2%)
Other/Unknown	0 (0.0%)	8 (0.6%)
TOTAL	16 (100.0%)	1,298 (100.0%)



*Note:* The totals in the table do not include an additional 12 bicyclists who were not fatally injured or injured or where their injury severity was unknown.

### Bicycle Fatalities and Injuries by Road Type\*

88% of the fatalities of bicyclists occurred on state roads in 2016, while 51% 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 12 bicyclists who were not fatally injured or injured or where their injury severity was unknown.

Road Type	<b>Fatalities</b>	Injuries
State Hwy (Other)	14 (87.5%)	642 (49.5%)
Local	2 (12.5%)	656 (50.5%)
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	16 (100.0%)	1,298 (100.0%)

### Crashes by Motor Vehicle Type

### Vehicle Crashes by Vehicle Types

	<b>Fatal Crashes</b>	<b>Injury Crashes</b>	<b>PDO Crashes</b>	<b>Total Crashes</b>
Passenger Car	55.9%	70.7%	71.4%	71.0%
	608 crashes	42,322 crashes	48,893 crashes	91,823 crashes
Lt Trk/Van/SUV	43.9%	51.6%	50.1%	50.8%
	478 crashes	30,872 crashes	34,321 crashes	65,671 crashes
Heavy Truck	12.8%	4.7%	5.5%	5.2%
	139 crashes	2,831 crashes	3,770 crashes	6,740 crashes
Bicycle	1.5%	2.2%	0.0%	1.0%
	16 crashes	1,288 crashes	0 crashes	1,305 crashes
Motorcycle	17.4%	5.1%	0.3%	2.7%
	189 crashes	3,033 crashes	232 crashes	3,454 crashes
School Bus	0.4%	0.3%	0.2%	0.3%
	4 crashes	187 crashes	152 crashes	343 crashes
Commercial Bus	1.3%	0.7%	0.3%	0.5%
	14 crashes	397 crashes	175 crashes	586 crashes
Other	3.4%	1.6%	0.9%	1.2%
	37 crashes	981 crashes	585 crashes	1,603 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 55.9% of all fatal injury crashes). Percentage totals exceed 100% due to multiple vehicle crashes.

### Vehicle Crashes—Single Vehicle Hitting Fixed Objects

		Passenger Car	22,556	60.3%
		Lt Trk/Van/SUV	13,291	35.5%
Crashes in Which a Single		Heavy Truck	948	2.5%
Vehicle Hit a Fixed Object:	37,439	Motorcycle	527	1.4%
		School Bus	16	0.0%
		Commercial Bus	15	0.0%
		Other	86	0.2%

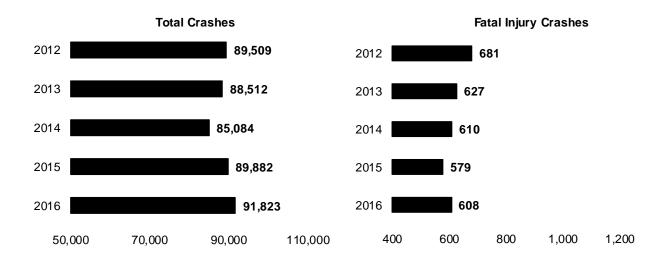
### Vehicle Crashes—Two-Vehicle Collisions

				Vehic	le Struck				
Striking Vehicle	Passenger Car	Heavy Truck	Lt Trk/ Vn/Sv			School Bus			
Passenger Car	19,405	1,329	14,393	341	484	98	158	220	36,428
Lt Trk/Van/SUV	10,906	784	9,091	216	304	73	112	144	21,630
Heavy Truck	1,010	328	620	13	12	3	11	8	2,005
Motorcycle	465	29	379	50	6	0	4	15	948
Bicycle	233	8	158	1	0	0	6	6	412
School Bus	64	3	20	0	0	5	1	1	94
Commercial Bus	85	7	49	0	7	0	5	0	153
Other/Unknown	280	9	144	9	43	0	1	24	510

### Crashes by Vehicle

### Passenger Car Crashes—Five-Year Trends

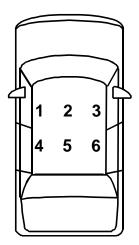
Total passenger car crashes in 2014 and fatal crashes in 2015 were the lowest in the last five years.



### Passenger Car Fatalities by Seating Position

In 2016, 42% of crash fatalities involved passenger car occupants. The table below depicts the passenger car fatalities in 2016 by seating position.

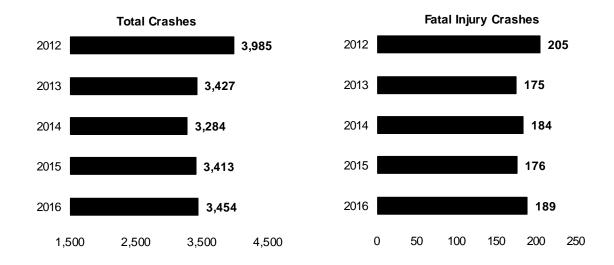
	Drivers		1 <b>→</b>
	366 (74.1%)		
		Center Front	2 <b>→</b>
		0 (0.0%)	
	_	Right Front	3 <b>→</b>
		80 (16.2%)	
Total Fatalities	Total Passengers	Left Rear	4 <b>→</b>
494	121 (24.5%)	19 (3.9%)	
		Center Rear	5 <b>→</b>
		7 (1.4%)	
		Right Rear	6 →
		15 (3.0%)	
	Others	_	
	7 (1.4%)		



"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 2016, total motorcycle crashes increased 1.2% from 2015 while motorcycle fatal injury crashes increased 7.3% from 2015.



# Year Fatalities 2012 210 2013 181 2014 186 2015 179 2016 192 TOTAL 948

### Motorcycle Fatalities—Five-Year Trends

Of the 192 fatalities in 2016 involving motorcycle drivers or passengers:

- ► 174 (90.6%) were drivers
- $\blacktriangleright$  18 (9.4%) were passengers

# v enicie

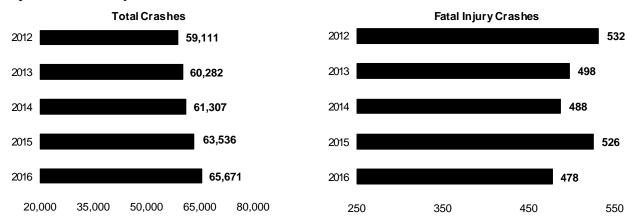
### Motorcycle Helmet Use in Crashes

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

	<b>Fatalities</b>	Injuries	Not Injured	Total Motorcyclists
Helmets	90 (46.9%)	1,924 (57.9%)	233 (57.4%)	2,247 (57.3%)
No Helmets	94 (49.0%)	1,245 (37.5%)	136 (33.5%)	1,475 (37.6%)
Unknown	8 (4.2%)	152 (4.6%)	37 (9.1%)	197 (5.0%)
TOTAL	192 (100.0%)	3,321 (100.0%)	406 (100.0%)	3,919 (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 increased 3.4% in 2016 from 2015 and remain high in comparison to other years.



### Light Truck / SUV / Van Rollovers Compared to Passenger Cars

► The percentage of 2016 light truck / SUV / van crashes were higher than passenger cars in

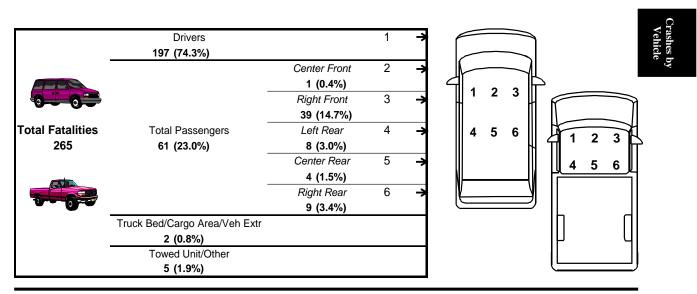
crashes involving rollovers (5.6% of all light truck / SUV / van crashes compared to 3.6% of all passenger car crashes).

	Rollover	Rollover
	Crashes	Fatalities
Lt Trk/Van/SUV	3,694 (5.6%)	112 (42.3%)
Passenger Cars	3,346 (3.6%)	95 (19.2%)

► In 2016 rollover crashes, the percentage of light truck / SUV / van occupant fatalities were nearly 120% higher than passenger car occupant fatalities (42.3% of fatalities compared to 19.2%).

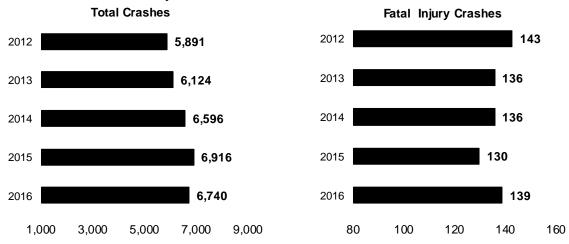
### Light Truck / SUV / Van Deaths by Seating Position

In 2016, 22.3% of crash fatalities involved occupants in light trucks, vans, and sport utility vehicles. The table below depicts these fatalities in 2016 by seating position.



### Heavy Truck Crashes—Five Year Trends

Total crashes involving heavy trucks in 2015 were the highest since 2012. Fatal injury crashes in 2015 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 total steering system failure.

Vehicle Defect	Crashes
Tire/Wheel-Related	100
Brake-Related	65
Power Train Failure	32
Total Steering System Failure	32
Unsecure Trailer/Overloaded	27
Trailer Hitch/Improper Towing	7
Suspension	6
Other Failure	5
Exhaust System Failure	0
Vehicle Lighting Related	0

### Heavy Truck Crashes by Road Type\*

Road Type	Crashes	Occupant Fatalities
State Hwy (Interstate)	1,850 (27.5%)	12 (46.2%)
State Hwy (Other)	3,712 (55.1%)	8 (30.8%)
Turnpike	490 (7.3%)	3 (11.5%)
Local Road	687 (10.2%)	3 (11.5%)
Other	1 (0.0%)	0 (0.0%)
TOTAL	6,740 (100.0%)	26 (100.0%)

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

<sup>\*</sup>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 by Vehicle

### Hazardous Material Crashes by Road Type

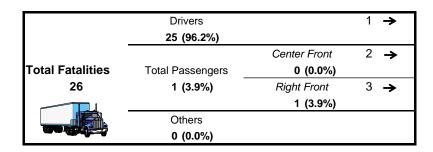
Road Type	Crashes	HazMat Released
State Hwy (Interstate)	40 (26.5%)	6 (20.0%)
State Hwy (Other)	86 (57.0%)	16 (53.3%)
Turnpike	9 (6.0%)	2 (6.7%)
Local Road	16 (10.6%)	6 (20.0%)
Other	0 (0.0%)	0 (0.0%)
TOTAL	151 (100.0%)	30 (100.0%)

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

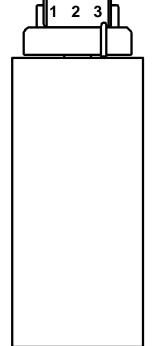
\*Crashes on this page occurring at locations involving multiple road types are listed once, ranked from highest class to lowest: Interstate/Turnpike, Non-Interstate State Road, and then Local.

### Heavy Truck Fatalities by Seating Position

In 2016, only 2.2% of crash fatalities involved heavy truck occupants. The table below depicts the heavy truck fatalities in 2016 by seating position.



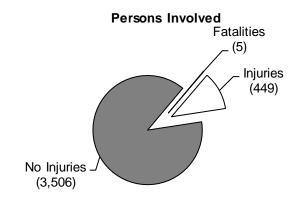
"Others" might be persons in the sleeping compartment; persons in the cargo trailer; or someone on, or attached to, the outside of the truck.



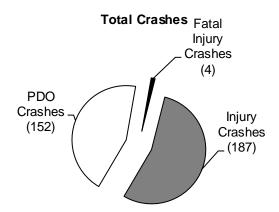
### School Bus Crashes

Of the almost 4,000 persons involved in school bus crashes in 2016, 5 were fatally injured, and 89% 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: 3,960



Over one half (54.5%) of school bus crashes in 2016 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\*

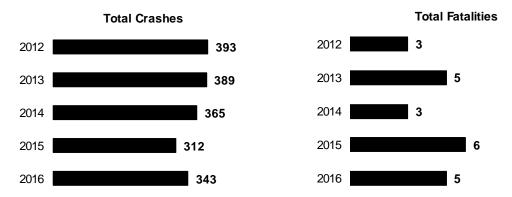
Road Type	Cras	hes
State Hwy (Interstate)	11	3.2%
State Hwy (Other)	234	68.2%
Turnpike	0	0.0%
Local Road	98	28.6%
Other	0	0.0%
TOTAL	343	100.0%

*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 2016. School bus related fatalities were 0.4% of total fatalities in 2016. None of the persons fatally injured were school bus passengers at the time of the crash, and none were school bus drivers.



		Crash S	everity			
Year	Fatal	Injury	PDO	Total	<b>Fatalities</b>	Injuries
2012	3	207	183	393	3	515
2013	5	203	181	389	5	397
2014	3	206	156	365	3	485
2015	6	156	150	312	6	296
2016	4	187	152	343	5	449
TOTAL	21	959	822	1,802	22	2,142

# 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.

<b>FATALITIES</b>					Driver/		
Year	School Bus Drivers	School Bus Passengers	School-Age Pedestrians	Other Pedestrians	Passenger of Other Vehicle	Other/ Unknown	Total Fatalities
2012	0	0	0	1	2	0	3
2013	0	0	0	3	2	0	5
2014	0	0	0	1	2	0	3
2015	0	0	1	0	5	0	6
2016	0	0	0	1	4	0	5
TOTAL	0	0	1	6	15	0	22

INJURIES					Driver/		
Year	School Bus Drivers	School Bus Passengers	School-Age Pedestrians	Other Pedestrians	Passenger of Other Vehicle	Other/ Unknown	Total Injuries
2012	33	297	6	8	163	7	514
2013	38	198	5	8	142	6	397
2014	36	266	3	5	170	5	485
2015	29	128	0	3	126	10	296
2016	44	204	8	5	156	32	449
TOTAL	180	1,093	22	29	757	60	2,141

### 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 2016, Pennsylvania's total population was 12,784,227 people.

The ten most populated counties were:

 Philadelphia (12.3%)
 Allegheny (9.6%)
 Montgomery (6.4%)

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

 Chester (4.0%)
 York (3.5%)
 Berks (3.2%)

Lehigh (2.8%) 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 (0.22%) 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 (5.94%) Montgomery (3.65%) Lancaster (3.61%)
York (3.40%) Chester (3.32%) Bucks (3.21%)
Westmoreland (3.11%) Berks (3.07%) Philadelphia (2.84%)

Luzerne (2.30%)

The ten counties with the most reported traffic crashes were:

 Allegheny (9.9%)
 Philadelphia (9.4%)
 Montgomery (6.8%)

 Bucks (4.8%)
 Lancaster (4.6%)
 Delaware (3.9%)

 Lehigh (3.8%)
 Berks (3.8%)
 Chester (3.8%)

York (3.6%) See page 59.

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

Philadelphia (8.5%) Allegheny (6.0%) Bucks (4.4%) Lancaster (3.7%) York (3.3%) Berks (2.9%)

Westmoreland (2.8%) Luzerne (2.7%) Montgomery (2.7%)

Butler (2.5%) *See page 61.* 

<sup>\*</sup>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, 2015 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	<b>Total Crashes</b>
Adams	102,180 (0.8%)	15 (1.4%)	402 (0.7%)	601 (0.9%)	1,018 (0.8%)
Allegheny	1,225,365 (9.6%)	67 (6.2%)	5,434 (9.1%)	7,357 (10.7%)	12,858 (9.9%)
Armstrong	66,486 (0.5%)	6 (0.6%)	207 (0.4%)	298 (0.4%)	511 (0.4%)
Beaver	167,429 (1.3%)	4 (0.4%)	527 (0.9%)	770 (1.1%)	1,301 (1.0%)
Bedford	48,325 (0.4%)	9 (0.8%)	284 (0.5%)	425 (0.6%)	718 (0.6%)
Berks	414,812 (3.2%)	35 (3.2%)	2,067 (3.5%)	2,800 (4.1%)	4,902 (3.8%)
Blair	124,650 (1.0%)	20 (1.8%)	636 (1.1%)	781 (1.1%)	1,437 (1.1%)
Bradford	60,770 (0.5%)	7 (0.6%)	239 (0.4%)	306 (0.5%)	552 (0.4%)
Bucks	626,399 (4.9%)	50 (4.6%)	2,815 (4.7%)	3,294 (4.8%)	6,159 (4.8%)
Butler	186,847 (1.5%)	28 (2.6%)	652 (1.1%)	1,152 (1.7%)	1,832 (1.4%)
Cambria	134,732 (1.1%)	11 (1.0%)	498 (0.8%)	718 (1.1%)	1,227 (1.0%)
Cameron	4,677 (0.0%)	0 (0.0%)	18 (0.0%)	22 (0.0%)	40 (0.0%)
Carbon	63,594 (0.5%)	10 (0.9%)	272 (0.5%)	423 (0.6%)	705 (0.5%)
Centre	161,464 (1.3%)	20 (1.8%)	550 (0.9%)	741 (1.1%)	1,311 (1.0%)
Chester Clarion	516,312 (4.0%) 38,513 (0.3%)	24 (2.2%) 4 (0.4%)	1,834 (3.1%) 173 (0.3%)	3,031 (4.4%) 240 (0.4%)	4,889 (3.8%) 417 (0.3%)
Clearfield	80,596 (0.6%)	8 (0.7%)	364 (0.6%)	466 (0.7%)	838 (0.7%)
Clinton	39,233 (0.3%)	6 (0.6%)	180 (0.3%)	210 (0.3%)	396 (0.3%)
Columbia	66,420 (0.5%)	6 (0.6%)	333 (0.6%)	450 (0.7%)	789 (0.6%)
Crawford	86,257 (0.7%)	12 (1.1%)	388 (0.7%)	544 (0.8%)	944 (0.7%)
Cumberland	248,506 (1.9%)	25 (2.3%)	1,021 (1.7%)	1,598 (2.3%)	2,644 (2.0%)
Dauphin	273,707 (2.1%)	27 (2.5%)	1,447 (2.4%)	1,795 (2.6%)	3,269 (2.5%)
Delaware	563,402 (4.4%)	28 (2.6%)	2,428 (4.1%)	2,545 (3.7%)	5,001 (3.9%)
Elk	30,480 (0.2%)	9 (0.8%)	132 (0.2%)	181 (0.3%)	322 (0.3%)
rie	276,207 (2.2%)	27 (2.5%)	1,292 (2.2%)	1,397 (2.0%)	2,716 (2.1%)
ayette	132,733 (1.0%)	19 (1.8%)	533 (0.9%)	582 (0.9%)	1,134 (0.9%)
orest	7,321 (0.1%)	3 (0.3%)	32 (0.1%)	35 (0.1%)	70 (0.1%)
ranklin	153,851 (1.2%)	18 (1.7%)	637 (1.1%)	880 (1.3%)	1,535 (1.2%)
ulton	14,640 (0.1%)	2 (0.2%)	96 (0.2%)	130 (0.2%)	228 (0.2%)
Greene	37,197 (0.3%)	5 (0.5%)	129 (0.2%)	236 (0.3%)	370 (0.3%)
luntingdon	45,634 (0.4%)	4 (0.4%)	185 (0.3%)	226 (0.3%)	415 (0.3%)
ndiana	86,364 (0.7%)	17 (1.6%)	328 (0.6%)	378 (0.6%)	723 (0.6%)
lefferson	44,073 (0.3%)	8 (0.7%)	182 (0.3%)	268 (0.4%)	458 (0.4%)
luniata	24,863 (0.2%)	6 (0.6%)	135 (0.2%)	146 (0.2%)	287 (0.2%)
ackawanna	211,321 (1.7%)	15 (1.4%)	1,238 (2.1%)	1,437 (2.1%)	2,690 (2.1%)
ancaster	538,500 (4.2%)	43 (4.0%)	2,665 (4.5%)	3,223 (4.7%)	5,931 (4.6%)
awrence	87,294 (0.7%)	10 (0.9%)	345 (0.6%)	425 (0.6%)	780 (0.6%)
.ebanon	138,863 (1.1%)	17 (1.6%)	672 (1.1%)	763 (1.1%)	1,452 (1.1%)
ehigh	363,147 (2.8%)	23 (2.1%)	2,358 (3.9%)	2,589 (3.8%)	4,970 (3.8%)
uzerne	316,383 (2.5%)	31 (2.9%)	1,641 (2.7%)	2,008 (2.9%)	3,680 (2.8%)
ycoming	115,248 (0.9%)	14 (1.3%)	489 (0.8%)	598 (0.9%)	1,101 (0.9%)
/lcKean	41,883 (0.3%)	7 (0.6%)	182 (0.3%)	200 (0.3%)	389 (0.3%)
Mercer	112,913 (0.9%)	15 (1.4%)	545 (0.9%)	740 (1.1%)	1,300 (1.0%)
/lifflin	46,342 (0.4%)	3 (0.3%)	171 (0.3%)	277 (0.4%)	451 (0.4%)
Monroe	166,098 (1.3%)	21 (1.9%)	1,126 (1.9%)	1,474 (2.2%)	2,621 (2.0%)
Montgomery	821,725 (6.4%)	32 (2.9%)	4,062 (6.8%)	4,705 (6.9%)	8,799 (6.8%)
Montour	18,343 (0.1%)	3 (0.3%)	99 (0.2%)	115 (0.2%)	217 (0.2%)
Vorthampton	302,294 (2.4%)	24 (2.2%)	1,487 (2.5%)	1,608 (2.4%)	3,119 (2.4%)
lorthumberland	92,541 (0.7%)	15 (1.4%)	329 (0.6%)	378 (0.6%)	722 (0.6%)
Perry	45,820 (0.4%)	11 (1.0%)	174 (0.3%)	278 (0.4%)	463 (0.4%)
hiladelphia	1,567,872 (12.3%)	93 (8.6%)	8,809 (14.7%)	3,288 (4.8%)	12,190 (9.4%)
Pike	55,562 (0.4%)	6 (0.6%)	252 (0.4%)	324 (0.5%)	582 (0.5%)
otter	16,885 (0.1%)	2 (0.2%)	61 (0.1%)	73 (0.1%)	136 (0.1%)
Schuylkill	143,573 (1.1%)	13 (1.2%)	574 (1.0%)	762 (1.1%)	1,349 (1.0%)
inyder	40,468 (0.3%)	4 (0.4%)	169 (0.3%)	211 (0.3%)	384 (0.3%)
omerset	75,061 (0.6%)	6 (0.6%)	328 (0.6%)	442 (0.7%)	776 (0.6%)
ullivan	6,137 (0.1%)	1 (0.1%)	33 (0.1%)	42 (0.1%)	76 (0.1%)
usquehanna	40,862 (0.3%)	10 (0.9%)	202 (0.3%)	281 (0.4%)	493 (0.4%)
ïoga	41,467 (0.3%)	12 (1.1%)	165 (0.3%)	250 (0.4%)	427 (0.3%)
Inion	45,565 (0.4%)	2 (0.2%)	189 (0.3%)	201 (0.3%)	392 (0.3%)
enango	52,582 (0.4%)	9 (0.8%)	233 (0.4%)	300 (0.4%)	542 (0.4%)
Varren	40,025 (0.3%)	4 (0.4%)	193 (0.3%)	214 (0.3%)	411 (0.3%)
Vashington Vayne	207,981 (1.6%)	22 (2.0%)	812 (1.4%)	1,202 (1.8%)	2,036 (1.6%)
V-JV/DD	50,710 (0.4%)	10 (0.9%)	222 (0.4%) 1,405 (2.4%)	286 (0.4%)	518 (0.4%)
•					
Vestmoreland	355,458 (2.8%)	31 (2.9%)	. ,	1,852 (2.7%)	3,288 (2.5%)
•	355,458 (2.8%) 27,521 (0.2%) 443,744 (3.5%)	2 (0.2%) 37 (3.4%)	1,403 (2.4%) 127 (0.2%) 2,026 (3.4%)	1,632 (2.7%) 159 (0.2%) 2,633 (3.9%)	288 (0.2%) 4,696 (3.6%)

### Crashes by County—Five-Year Trends

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

Adams 985 (0.8%) 1,063 (0.9%) 1,026 (0.9%) 1,027 (0.9%) 1	County	2012 Crashes	2013 Crashes	2014 Crashes	2015 Crashes	2016 Crashes
Armstrong S27 (0.4%) 624 (0.5%) 526 (0.4%) 517 (0.4%) 511 (0.4%) 130 (1.5%) 130 (1.5%) 130 (1.5%) 130 (1.5%) 130 (1.5%) 130 (1.5%) 130 (1.5%) 140 (1.5%) 130 (1.5%) 140 (1.5%) 130 (1.5%) 140 (1.5%) 1	Adams	995 (0.8%)	1,063 (0.9%)	1,026 (0.9%)	990 (0.8%)	1,018 (0.8%)
Seawer			11,952 (9.6%)		12,665 (10.0%)	12,858 (9.9%)
Searford   688 (0.5%)   685 (0.5%)   650 (0.5%)   749 (0.6%)   718 (0.6%)   660 (0.5%)   4,873 (3.78)   4,873	Armstrong	527 (0.4%)	624 (0.5%)	526 (0.4%)		511 (0.4%)
Berks 4,704 (38%) 4,973 (37%) 4,953 (38%) 4,881 (38%) 4,902 (38%) 58radford 776 (0.6%) 662 (0.5%) 650 (0.5%) 650 (0.5%) 552 (0.4%) 58radford 776 (0.6%) 662 (0.5%) 650 (0.5%) 500 (0.5%) 552 (0.4%) 58uler 1,996 (1.6%) 5.900 (4.8%) 5.914 (4.8%) 5.914 (4.8%) 5.924 (4.7%) 610 (4.8%) 5.900 (4.8%)						
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Luzerne         3,336 (2.7%)         3,360 (2.7%)         3,297 (2.7%)         3,690 (2.9%)         3,680 (2.8%)           Lycoming         1,248 (1.0%)         1,187 (1.0%)         1,091 (0.9%)         1,161 (0.9%)         1,101 (0.9%)           McKean         351 (0.3%)         383 (0.3%)         398 (0.3%)         371 (0.3%)         389 (0.3%)           Mercer         1,280 (1.0%)         1,287 (1.0%)         1,216 (1.0%)         1,260 (1.0%)         1,300 (1.0%)           Mifflin         354 (0.3%)         418 (0.3%)         366 (0.3%)         459 (0.4%)         451 (0.4%)           Montore         2,256 (1.8%)         2,269 (1.8%)         2,163 (1.8%)         2,504 (2.0%)         2,621 (2.0%)           Montour         224 (0.2%)         211 (0.2%)         221 (0.2%)         251 (0.2%)         2,721 (0.2%)           Northampton         3,026 (2.4%)         2,954 (2.4%)         2,927 (2.4%)         3,077 (2.4%)         3,119 (2.4%)           Northumberland         707 (0.6%)         710 (0.6%)         749 (0.6%)         679 (0.5%)         722 (0.6%)           Perry         477 (0.4%)         508 (0.4%)         498 (0.4%)         463 (0.4%)         463 (0.4%)           Philadelphia         11,336 (9.1%)         11,146 (9.0%)         10.627 (8.8%)						
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McKean         351 (0.3%)         383 (0.3%)         398 (0.3%)         371 (0.3%)         389 (0.3%)           Mercer         1,280 (1.0%)         1,287 (1.0%)         1,216 (1.0%)         1,260 (1.0%)         1,300 (1.0%)           Mifflin         354 (0.3%)         418 (0.3%)         366 (0.3%)         459 (0.4%)         451 (0.4%)           Montore         2,256 (1.8%)         2,269 (1.8%)         2,163 (1.8%)         2,504 (2.0%)         2,621 (2.0%)           Montgomery         8,385 (6.8%)         8,332 (6.7%)         8,104 (6.7%)         8,499 (6.7%)         8,799 (6.8%)           Montour         224 (0.2%)         211 (0.2%)         221 (0.2%)         251 (0.2%)         217 (0.2%)           Northampton         3,026 (2.4%)         2,954 (2.4%)         2,927 (2.4%)         3,077 (2.4%)         3,119 (2.4%)           Northumberland         707 (0.6%)         710 (0.6%)         749 (0.6%)         679 (0.5%)         722 (0.6%)           Perry         477 (0.4%)         508 (0.4%)         498 (0.4%)         463 (0.4%)         463 (0.4%)           Perly         477 (0.4%)         508 (0.4%)         10.57 (8.8%)         11,544 (9.1%)         12,190 (9.4%)           Pike         593 (0.5%)         579 (0.5%)         591 (0.5%)         604 (0.5%)						
Mercer         1,280 (1.0%)         1,287 (1.0%)         1,216 (1.0%)         1,260 (1.0%)         1,300 (1.0%)           Mifflin         354 (0.3%)         418 (0.3%)         366 (0.3%)         459 (0.4%)         451 (0.4%)           Monroe         2,256 (1.8%)         2,269 (1.8%)         2,1683 (1.8%)         2,504 (2.0%)         2,621 (2.0%)           Montgomery         8,385 (6.8%)         8,332 (6.7%)         8,104 (6.7%)         8,499 (6.7%)         8,799 (6.8%)           Montour         224 (0.2%)         211 (0.2%)         221 (0.2%)         251 (0.2%)         217 (0.2%)           Northampton         3,026 (2.4%)         2,954 (2.4%)         2,927 (2.4%)         3,077 (2.4%)         3,119 (2.4%)           Northumberland         707 (0.6%)         710 (0.6%)         749 (0.6%)         679 (0.5%)         722 (0.6%)           Perry         477 (0.4%)         508 (0.4%)         498 (0.4%)         463 (0.4%)         463 (0.4%)           Perry         477 (0.4%)         508 (0.4%)         498 (0.4%)         463 (0.4%)         463 (0.4%)           Perry         477 (0.4%)         508 (0.4%)         498 (0.4%)         463 (0.4%)         463 (0.4%)           Perry         477 (0.4%)         508 (0.4%)         498 (0.4%)         463 (0.4%)         1						
Mifflin         354 (0.3%)         418 (0.3%)         366 (0.3%)         459 (0.4%)         451 (0.4%)           Monroe         2,256 (1.8%)         2,269 (1.8%)         2,163 (1.8%)         2,504 (2.0%)         2,621 (2.0%)           Montgomery         8,385 (6.8%)         8,332 (6.7%)         8,104 (6.7%)         8,499 (6.7%)         8,799 (6.8%)           Montour         224 (0.2%)         211 (0.2%)         221 (0.2%)         251 (0.2%)         217 (0.2%)           Northampton         3,026 (2.4%)         2,954 (2.4%)         2,927 (2.4%)         3,077 (2.4%)         3,119 (2.4%)           Northumberland         707 (0.6%)         710 (0.6%)         749 (0.6%)         679 (0.5%)         722 (0.6%)           Perry         477 (0.4%)         508 (0.4%)         498 (0.4%)         463 (0.4%)         463 (0.4%)           Philadelphia         11,336 (9.1%)         11,146 (9.0%)         10,627 (8.8%)         11,544 (9.1%)         12,190 (9.4%)           Pike         593 (0.5%)         579 (0.5%)         591 (0.5%)         604 (0.5%)         582 (0.5%)           Potter         120 (0.1%)         144 (0.1%)         98 (0.1%)         105 (0.1%)         136 (0.1%)           Schuylkill         1,464 (1.2%)         1,425 (1.2%)         1,373 (1.1%)         1,381 (1.		, ,	· ,	` '	, ,	` '
Monroe         2,256 (1.8%)         2,269 (1.8%)         2,163 (1.8%)         2,504 (2.0%)         2,621 (2.0%)           Montgomery         8,385 (6.8%)         8,332 (6.7%)         8,104 (6.7%)         8,499 (6.7%)         8,799 (6.8%)           Montour         224 (0.2%)         211 (0.2%)         221 (0.2%)         251 (0.2%)         217 (0.2%)           Northampton         3,026 (2.4%)         2,954 (2.4%)         2,927 (2.4%)         3,077 (2.4%)         3,119 (2.4%)           Northampton         707 (0.6%)         710 (0.6%)         749 (0.6%)         679 (0.5%)         722 (0.6%)           Perry         477 (0.4%)         508 (0.4%)         498 (0.4%)         463 (0.4%)         463 (0.4%)           Philadelphia         11,336 (9.1%)         11,146 (9.0%)         10,627 (8.8%)         11,544 (9.1%)         12,190 (9.4%)           Potter         593 (0.5%)         579 (0.5%)         591 (0.5%)         604 (0.5%)         582 (0.5%)           Potter         120 (0.1%)         144 (0.1%)         98 (0.1%)         105 (0.1%)         136 (0.1%)           Schuylkill         1,464 (1.2%)         1,425 (1.2%)         1,373 (1.1%)         1,381 (1.1%)         1,349 (1.0%)           Snyder         366 (0.3%)         382 (0.3%)         333 (0.3%)         388 (0.						
Montgomery         8,385 (6.8%)         8,332 (6.7%)         8,104 (6.7%)         8,499 (6.7%)         8,799 (6.8%)           Montour         224 (0.2%)         211 (0.2%)         221 (0.2%)         251 (0.2%)         217 (0.2%)           Northampton         3,026 (2.4%)         2,954 (2.4%)         2,927 (2.4%)         3,077 (2.4%)         3,119 (2.4%)           Northumberland         707 (0.6%)         710 (0.6%)         749 (0.6%)         679 (0.5%)         722 (0.6%)           Perry         477 (0.4%)         508 (0.4%)         498 (0.4%)         463 (0.4%)         463 (0.4%)           Phike         593 (0.5%)         579 (0.5%)         591 (0.5%)         604 (0.5%)         582 (0.5%)           Pike         593 (0.5%)         579 (0.5%)         591 (0.5%)         604 (0.5%)         582 (0.5%)           Potter         120 (0.1%)         144 (0.1%)         98 (0.1%)         10.5 (0.1%)         136 (0.1%)           Schuylkill         1,464 (1.2%)         1,425 (1.2%)         1,373 (1.1%)         1,381 (1.1%)         1,349 (1.0%)           Snyder         366 (0.3%)         382 (0.3%)         333 (0.3%)         398 (0.3%)         384 (0.3%)           Sullivan         93 (0.1%)         75 (0.1%)         70 (0.1%)         60 (0.6%)         776 (0.6%)<		, ,	, ,	, ,	, ,	, ,
Montour         224 (0.2%)         211 (0.2%)         221 (0.2%)         251 (0.2%)         217 (0.2%)           Northampton         3,026 (2.4%)         2,954 (2.4%)         2,927 (2.4%)         3,077 (2.4%)         3,119 (2.4%)           Northumberland         707 (0.6%)         710 (0.6%)         749 (0.6%)         679 (0.5%)         722 (0.6%)           Perry         477 (0.4%)         508 (0.4%)         498 (0.4%)         463 (0.4%)         463 (0.4%)           Philadelphia         11,336 (9.1%)         11,146 (9.0%)         10,627 (8.8%)         11,544 (9.1%)         12,190 (9.4%)           Pike         593 (0.5%)         579 (0.5%)         591 (0.5%)         604 (0.5%)         582 (0.5%)           Potter         120 (0.1%)         144 (0.1%)         98 (0.1%)         105 (0.1%)         136 (0.1%)           Schuylkill         1,464 (1.2%)         1,425 (1.2%)         1,373 (1.1%)         1,381 (1.1%)         1,349 (1.0%)           Somerset         366 (0.3%)         382 (0.3%)         333 (0.3%)         398 (0.3%)         384 (0.3%)           Sullivan         93 (0.1%)         75 (0.1%)         70 (0.1%)         60 (0.1%)         76 (0.6%)           Susquehanna         511 (0.4%)         533 (0.4%)         523 (0.4%)         467 (0.4%) <t< td=""><td></td><td>. ,</td><td>. ,</td><td>. , ,</td><td></td><td></td></t<>		. ,	. ,	. , ,		
Northampton 3,026 (2.4%) 2,954 (2.4%) 2,927 (2.4%) 3,077 (2.4%) 3,119 (2.4%) Northumberland 707 (0.6%) 710 (0.6%) 749 (0.6%) 679 (0.5%) 722 (0.6%) Perry 477 (0.4%) 508 (0.4%) 498 (0.4%) 463 (0.4%) 463 (0.4%) Philadelphia 11,336 (9.1%) 11,146 (9.0%) 10,627 (8.8%) 11,544 (9.1%) 12,190 (9.4%) Pike 593 (0.5%) 579 (0.5%) 591 (0.5%) 604 (0.5%) 582 (0.5%) Potter 120 (0.1%) 144 (0.1%) 98 (0.1%) 105 (0.1%) 136 (0.1%) Schuylkill 1,464 (1.2%) 1,425 (1.2%) 1,373 (1.1%) 1,381 (1.1%) 1,349 (1.0%) Somerset 793 (0.6%) 808 (0.7%) 710 (0.6%) 776 (0.6%) 776 (0.6%) Sullivan 93 (0.1%) 75 (0.1%) 70 (0.1%) 60 (0.1%) 76 (0.1%) Susquehanna 511 (0.4%) 533 (0.4%) 523 (0.4%) 467 (0.4%) 493 (0.4%) Tioga 511 (0.4%) 483 (0.4%) 407 (0.3%) 370 (0.3%) 427 (0.3%) Union 345 (0.3%) 382 (0.3%) 350 (0.3%) 370 (0.3%) 427 (0.3%) Warren 405 (0.3%) 412 (0.3%) 382 (0.3%) 382 (0.3%) 379 (0.3%) 411 (0.3%) Washington 2,084 (1.7%) 1,972 (1.6%) 1,966 (1.6%) 503 (0.4%) 518 (0.4%) Wayne 490 (0.4%) 507 (0.4%) 428 (0.4%) 503 (0.3%) 328 (2.5%) Wyorning 348 (0.3%) 371 (0.3%) 322 (0.3%) 330 (0.3%) 288 (0.2%) York 4,442 (3.6%) 4,472 (3.6%) 4,412 (3.6%) 4,412 (3.6%) 4,747 (3.7%) 4,696 (3.6%)						
Northumberland 707 (0.6%) 710 (0.6%) 749 (0.6%) 679 (0.5%) 722 (0.6%) Perry 477 (0.4%) 508 (0.4%) 488 (0.4%) 463 (0.4%) 463 (0.4%) 463 (0.4%) Philadelphia 11,336 (9.1%) 11,146 (9.0%) 10,627 (8.8%) 11,544 (9.1%) 12,190 (9.4%) Pike 593 (0.5%) 579 (0.5%) 591 (0.5%) 604 (0.5%) 582 (0.5%) Potter 120 (0.1%) 144 (0.1%) 98 (0.1%) 105 (0.1%) 136 (0.1%) Schuylkill 1,464 (1.2%) 1,425 (1.2%) 1,373 (1.1%) 1,381 (1.1%) 1,349 (1.0%) Snyder 366 (0.3%) 382 (0.3%) 333 (0.3%) 398 (0.3%) 384 (0.3%) Somerset 793 (0.6%) 808 (0.7%) 710 (0.6%) 776 (0.6%) 776 (0.6%) Sullivan 93 (0.1%) 75 (0.1%) 70 (0.1%) 60 (0.1%) 76 (0.1%) Susquehanna 511 (0.4%) 533 (0.4%) 523 (0.4%) 467 (0.4%) 493 (0.4%) Tioga 511 (0.4%) 483 (0.4%) 407 (0.3%) 370 (0.3%) 427 (0.3%) Union 345 (0.3%) 382 (0.3%) 350 (0.3%) 411 (0.3%) 392 (0.3%) Venango 606 (0.5%) 539 (0.4%) 547 (0.5%) 541 (0.4%) 542 (0.4%) Warren 405 (0.3%) 412 (0.3%) 382 (0.3%) 382 (0.3%) 379 (0.3%) 411 (0.3%) Washington 2,084 (1.7%) 1,972 (1.6%) 1,956 (1.6%) 1,925 (1.5%) 2,036 (1.6%) Wayne 490 (0.4%) 507 (0.4%) 428 (0.4%) 503 (0.3%) 3288 (2.5%) Wyoming 388 (0.3%) 371 (0.3%) 322 (0.3%) 330 (0.3%) 288 (0.2%) York 4,442 (3.6%) 4,472 (3.6%) 4,412 (3.6%) 4,412 (3.6%) 4,747 (3.7%) 4,696 (3.6%)		, ,	, ,	, ,	, ,	, ,
Perry         477 (0.4%)         508 (0.4%)         498 (0.4%)         463 (0.4%)         463 (0.4%)           Philadelphia         11,336 (9.1%)         11,146 (9.0%)         10,627 (8.8%)         11,544 (9.1%)         12,190 (9.4%)           Pilke         593 (0.5%)         579 (0.5%)         591 (0.5%)         604 (0.5%)         582 (0.5%)           Potter         120 (0.1%)         144 (0.1%)         98 (0.1%)         105 (0.1%)         136 (0.1%)           Schuylkill         1,464 (1.2%)         1,425 (1.2%)         1,373 (1.1%)         1,381 (1.1%)         1,349 (1.0%)           Snyder         366 (0.3%)         382 (0.3%)         333 (0.3%)         398 (0.3%)         384 (0.3%)           Somerset         793 (0.6%)         808 (0.7%)         710 (0.6%)         776 (0.6%)         776 (0.6%)           Sullivan         93 (0.1%)         75 (0.1%)         70 (0.1%)         60 (0.1%)         76 (0.1%)           Susquehanna         511 (0.4%)         533 (0.4%)         523 (0.4%)         467 (0.4%)         493 (0.4%)           Tioga         511 (0.4%)         483 (0.4%)         407 (0.3%)         370 (0.3%)         427 (0.3%)           Union         345 (0.3%)         382 (0.3%)         350 (0.3%)         411 (0.3%)         392 (0.3%) <td></td> <td></td> <td>. ,</td> <td>, , ,</td> <td></td> <td></td>			. ,	, , ,		
Philadelphia         11,336 (9.1%)         11,146 (9.0%)         10,627 (8.8%)         11,544 (9.1%)         12,190 (9.4%)           Pike         593 (0.5%)         579 (0.5%)         591 (0.5%)         604 (0.5%)         582 (0.5%)           Potter         120 (0.1%)         144 (0.1%)         98 (0.1%)         105 (0.1%)         136 (0.1%)           Schuylkill         1,464 (1.2%)         1,425 (1.2%)         1,373 (1.1%)         1,381 (1.1%)         1,349 (1.0%)           Snyder         366 (0.3%)         382 (0.3%)         333 (0.3%)         398 (0.3%)         384 (0.3%)           Somerset         793 (0.6%)         808 (0.7%)         710 (0.6%)         776 (0.6%)         776 (0.6%)           Sullivan         93 (0.1%)         75 (0.1%)         70 (0.1%)         60 (0.1%)         76 (0.1%)           Susquehanna         511 (0.4%)         533 (0.4%)         523 (0.4%)         467 (0.4%)         493 (0.4%)           Union         345 (0.3%)         382 (0.3%)         350 (0.3%)         370 (0.3%)         427 (0.3%)           Venango         606 (0.5%)         539 (0.4%)         547 (0.5%)         541 (0.4%)         542 (0.4%)           Warren         405 (0.3%)         412 (0.3%)         382 (0.3%)         379 (0.3%)         411 (0.3%)     <		` '	, ,	, ,		
Pike         593 (0.5%)         579 (0.5%)         591 (0.5%)         604 (0.5%)         582 (0.5%)           Potter         120 (0.1%)         144 (0.1%)         98 (0.1%)         105 (0.1%)         136 (0.1%)           Schuylkill         1,464 (1.2%)         1,425 (1.2%)         1,373 (1.1%)         1,381 (1.1%)         1,349 (1.0%)           Snyder         366 (0.3%)         382 (0.3%)         333 (0.3%)         398 (0.3%)         384 (0.3%)           Somerset         793 (0.6%)         808 (0.7%)         710 (0.6%)         776 (0.6%)         776 (0.6%)           Sullivan         93 (0.1%)         75 (0.1%)         70 (0.1%)         60 (0.1%)         76 (0.1%)           Susquehanna         511 (0.4%)         533 (0.4%)         523 (0.4%)         467 (0.4%)         493 (0.4%)           Tioga         511 (0.4%)         483 (0.4%)         407 (0.3%)         370 (0.3%)         427 (0.3%)           Venango         606 (0.5%)         539 (0.4%)         547 (0.5%)         541 (0.4%)         542 (0.4%)           Warren         405 (0.3%)         412 (0.3%)         382 (0.3%)         379 (0.3%)         411 (0.3%)           Washington         2,084 (1.7%)         1,972 (1.6%)         1,956 (1.6%)         1,925 (1.5%)         2,036 (1.6%)	,	, ,	(	, ,	, ,	, ,
Potter         120 (0.1%)         144 (0.1%)         98 (0.1%)         105 (0.1%)         136 (0.1%)           Schuylkill         1,464 (1.2%)         1,425 (1.2%)         1,373 (1.1%)         1,381 (1.1%)         1,349 (1.0%)           Snyder         366 (0.3%)         382 (0.3%)         333 (0.3%)         398 (0.3%)         384 (0.3%)           Somerset         793 (0.6%)         808 (0.7%)         710 (0.6%)         776 (0.6%)         776 (0.6%)           Sullivan         93 (0.1%)         75 (0.1%)         70 (0.1%)         60 (0.1%)         76 (0.1%)           Susquehanna         511 (0.4%)         533 (0.4%)         523 (0.4%)         467 (0.4%)         493 (0.4%)           Tioga         511 (0.4%)         483 (0.4%)         407 (0.3%)         370 (0.3%)         427 (0.3%)           Venango         606 (0.5%)         539 (0.4%)         547 (0.5%)         541 (0.4%)         542 (0.4%)           Warren         405 (0.3%)         412 (0.3%)         382 (0.3%)         379 (0.3%)         411 (0.3%)           Washington         2,084 (1.7%)         1,972 (1.6%)         1,956 (1.6%)         1,925 (1.5%)         2,036 (1.6%)           Westmoreland         3,326 (2.7%)         3,209 (2.6%)         3,272 (2.7%)         3,318 (2.6%)         3,288 (2.5%)			. ,	. , ,	. ,	
Schuylkill         1,464 (1.2%)         1,425 (1.2%)         1,373 (1.1%)         1,381 (1.1%)         1,349 (1.0%)           Snyder         366 (0.3%)         382 (0.3%)         333 (0.3%)         398 (0.3%)         384 (0.3%)           Somerset         793 (0.6%)         808 (0.7%)         710 (0.6%)         776 (0.6%)         776 (0.6%)           Sullivan         93 (0.1%)         75 (0.1%)         70 (0.1%)         60 (0.1%)         76 (0.1%)           Susquehanna         511 (0.4%)         533 (0.4%)         523 (0.4%)         467 (0.4%)         493 (0.4%)           Tioga         511 (0.4%)         483 (0.4%)         407 (0.3%)         370 (0.3%)         427 (0.3%)           Union         345 (0.3%)         382 (0.3%)         350 (0.3%)         411 (0.3%)         392 (0.3%)           Venango         606 (0.5%)         539 (0.4%)         547 (0.5%)         541 (0.4%)         542 (0.4%)           Warren         405 (0.3%)         412 (0.3%)         382 (0.3%)         379 (0.3%)         411 (0.3%)           Washington         2,084 (1.7%)         1,972 (1.6%)         1,956 (1.6%)         1,925 (1.5%)         2,036 (1.6%)           Wayne         490 (0.4%)         507 (0.4%)         428 (0.4%)         503 (0.4%)         518 (0.4%)		` ,	, ,	, ,	, ,	, ,
Snyder         366 (0.3%)         382 (0.3%)         333 (0.3%)         398 (0.3%)         384 (0.3%)           Somerset         793 (0.6%)         808 (0.7%)         710 (0.6%)         776 (0.6%)         776 (0.6%)           Sullivan         93 (0.1%)         75 (0.1%)         70 (0.1%)         60 (0.1%)         76 (0.1%)           Susquehanna         511 (0.4%)         533 (0.4%)         523 (0.4%)         467 (0.4%)         493 (0.4%)           Tioga         511 (0.4%)         483 (0.4%)         407 (0.3%)         370 (0.3%)         427 (0.3%)           Union         345 (0.3%)         382 (0.3%)         350 (0.3%)         411 (0.3%)         392 (0.3%)           Venango         606 (0.5%)         539 (0.4%)         547 (0.5%)         541 (0.4%)         542 (0.4%)           Warren         405 (0.3%)         412 (0.3%)         382 (0.3%)         379 (0.3%)         411 (0.3%)           Washington         2,084 (1.7%)         1,972 (1.6%)         1,956 (1.6%)         1,925 (1.5%)         2,036 (1.6%)           Wayne         490 (0.4%)         507 (0.4%)         428 (0.4%)         503 (0.4%)         518 (0.4%)           Westmoreland         3,326 (2.7%)         3,209 (2.6%)         3,272 (2.7%)         3,318 (2.6%)         3,288 (2.5%)		, ,	, ,		, ,	
Somerset         793 (0.6%)         808 (0.7%)         710 (0.6%)         776 (0.6%)         776 (0.6%)           Sullivan         93 (0.1%)         75 (0.1%)         70 (0.1%)         60 (0.1%)         76 (0.1%)           Susquehanna         511 (0.4%)         533 (0.4%)         523 (0.4%)         467 (0.4%)         493 (0.4%)           Tioga         511 (0.4%)         483 (0.4%)         407 (0.3%)         370 (0.3%)         427 (0.3%)           Union         345 (0.3%)         382 (0.3%)         350 (0.3%)         411 (0.3%)         392 (0.3%)           Venango         606 (0.5%)         539 (0.4%)         547 (0.5%)         541 (0.4%)         542 (0.4%)           Warren         405 (0.3%)         412 (0.3%)         382 (0.3%)         379 (0.3%)         411 (0.3%)           Washington         2,084 (1.7%)         1,972 (1.6%)         1,956 (1.6%)         1,925 (1.5%)         2,036 (1.6%)           Wayne         490 (0.4%)         507 (0.4%)         428 (0.4%)         503 (0.4%)         518 (0.4%)           Westmoreland         3,326 (2.7%)         3,209 (2.6%)         3,272 (2.7%)         3,318 (2.6%)         3,288 (2.5%)           Wyoming         348 (0.3%)         371 (0.3%)         322 (0.3%)         4,747 (3.7%)         4,696 (3.6%)	,		,	. , ,	. ,	
Sullivan         93 (0.1%)         75 (0.1%)         70 (0.1%)         60 (0.1%)         76 (0.1%)           Susquehanna         511 (0.4%)         533 (0.4%)         523 (0.4%)         467 (0.4%)         493 (0.4%)           Tioga         511 (0.4%)         483 (0.4%)         407 (0.3%)         370 (0.3%)         427 (0.3%)           Union         345 (0.3%)         382 (0.3%)         350 (0.3%)         411 (0.3%)         392 (0.3%)           Venango         606 (0.5%)         539 (0.4%)         547 (0.5%)         541 (0.4%)         542 (0.4%)           Warren         405 (0.3%)         412 (0.3%)         382 (0.3%)         379 (0.3%)         411 (0.3%)           Washington         2,084 (1.7%)         1,972 (1.6%)         1,956 (1.6%)         1,925 (1.5%)         2,036 (1.6%)           Wayne         490 (0.4%)         507 (0.4%)         428 (0.4%)         503 (0.4%)         518 (0.4%)           Westmoreland         3,326 (2.7%)         3,209 (2.6%)         3,272 (2.7%)         3,318 (2.6%)         3,288 (2.5%)           Wyorning         348 (0.3%)         371 (0.3%)         322 (0.3%)         330 (0.3%)         288 (0.2%)           York         4,442 (3.6%)         4,472 (3.6%)         4,412 (3.6%)         4,747 (3.7%)         4,696 (3.6%)			, ,		, ,	
Susquehanna         511 (0.4%)         533 (0.4%)         523 (0.4%)         467 (0.4%)         493 (0.4%)           Tioga         511 (0.4%)         483 (0.4%)         407 (0.3%)         370 (0.3%)         427 (0.3%)           Union         345 (0.3%)         382 (0.3%)         350 (0.3%)         411 (0.3%)         392 (0.3%)           Venango         606 (0.5%)         539 (0.4%)         547 (0.5%)         541 (0.4%)         542 (0.4%)           Warren         405 (0.3%)         412 (0.3%)         382 (0.3%)         379 (0.3%)         411 (0.3%)           Washington         2,084 (1.7%)         1,972 (1.6%)         1,956 (1.6%)         1,925 (1.5%)         2,036 (1.6%)           Wayne         490 (0.4%)         507 (0.4%)         428 (0.4%)         503 (0.4%)         518 (0.4%)           Westmoreland         3,326 (2.7%)         3,209 (2.6%)         3,272 (2.7%)         3,318 (2.6%)         3,288 (2.5%)           Wyorning         348 (0.3%)         371 (0.3%)         322 (0.3%)         330 (0.3%)         288 (0.2%)           York         4,442 (3.6%)         4,472 (3.6%)         4,412 (3.6%)         4,747 (3.7%)         4,696 (3.6%)						
Tioga 511 (0.4%) 483 (0.4%) 407 (0.3%) 370 (0.3%) 427 (0.3%) Union 345 (0.3%) 382 (0.3%) 350 (0.3%) 411 (0.3%) 392 (0.3%) Venango 606 (0.5%) 539 (0.4%) 547 (0.5%) 541 (0.4%) 542 (0.4%) Warren 405 (0.3%) 412 (0.3%) 382 (0.3%) 379 (0.3%) 411 (0.3%) Washington 2,084 (1.7%) 1,972 (1.6%) 1,956 (1.6%) 1,925 (1.5%) 2,036 (1.6%) Wayne 490 (0.4%) 507 (0.4%) 428 (0.4%) 503 (0.4%) 518 (0.4%) Westmoreland 3,326 (2.7%) 3,209 (2.6%) 3,272 (2.7%) 3,318 (2.6%) 3,288 (2.5%) Wyoming 348 (0.3%) 371 (0.3%) 322 (0.3%) 330 (0.3%) 288 (0.2%) York 4.442 (3.6%) 4.472 (3.6%) 4.412 (3.6%) 4.747 (3.7%) 4.696 (3.6%)		, ,	· ,	, ,	, ,	
Union         345 (0.3%)         382 (0.3%)         350 (0.3%)         411 (0.3%)         392 (0.3%)           Venango         606 (0.5%)         539 (0.4%)         547 (0.5%)         541 (0.4%)         542 (0.4%)           Warren         405 (0.3%)         412 (0.3%)         382 (0.3%)         379 (0.3%)         411 (0.3%)           Washington         2,084 (1.7%)         1,972 (1.6%)         1,956 (1.6%)         1,925 (1.5%)         2,036 (1.6%)           Wayne         490 (0.4%)         507 (0.4%)         428 (0.4%)         503 (0.4%)         518 (0.4%)           Westmoreland         3,326 (2.7%)         3,209 (2.6%)         3,272 (2.7%)         3,318 (2.6%)         3,288 (2.5%)           Wyoming         348 (0.3%)         371 (0.3%)         322 (0.3%)         330 (0.3%)         288 (0.2%)           York         4,442 (3.6%)         4,472 (3.6%)         4,412 (3.6%)         4,747 (3.7%)         4,696 (3.6%)					, ,	
Venango         606 (0.5%)         539 (0.4%)         547 (0.5%)         541 (0.4%)         542 (0.4%)           Warren         405 (0.3%)         412 (0.3%)         382 (0.3%)         379 (0.3%)         411 (0.3%)           Washington         2,084 (1.7%)         1,972 (1.6%)         1,956 (1.6%)         1,925 (1.5%)         2,036 (1.6%)           Wayne         490 (0.4%)         507 (0.4%)         428 (0.4%)         503 (0.4%)         518 (0.4%)           Westmoreland         3,326 (2.7%)         3,209 (2.6%)         3,272 (2.7%)         3,318 (2.6%)         3,288 (2.5%)           Wyoming         348 (0.3%)         371 (0.3%)         322 (0.3%)         330 (0.3%)         288 (0.2%)           York         4,442 (3.6%)         4,472 (3.6%)         4,412 (3.6%)         4,747 (3.7%)         4,696 (3.6%)	-	, ,	, ,			, ,
Warren         405 (0.3%)         412 (0.3%)         382 (0.3%)         379 (0.3%)         411 (0.3%)           Washington         2,084 (1.7%)         1,972 (1.6%)         1,956 (1.6%)         1,925 (1.5%)         2,036 (1.6%)           Wayne         490 (0.4%)         507 (0.4%)         428 (0.4%)         503 (0.4%)         518 (0.4%)           Westmoreland         3,326 (2.7%)         3,209 (2.6%)         3,272 (2.7%)         3,318 (2.6%)         3,288 (2.5%)           Wyoming         348 (0.3%)         371 (0.3%)         322 (0.3%)         330 (0.3%)         288 (0.2%)           York         4,442 (3.6%)         4,472 (3.6%)         4,412 (3.6%)         4,747 (3.7%)         4,696 (3.6%)		, ,	, ,	, ,	, ,	
Washington         2,084 (1.7%)         1,972 (1.6%)         1,956 (1.6%)         1,925 (1.5%)         2,036 (1.6%)           Wayne         490 (0.4%)         507 (0.4%)         428 (0.4%)         503 (0.4%)         518 (0.4%)           Westmoreland         3,326 (2.7%)         3,209 (2.6%)         3,272 (2.7%)         3,318 (2.6%)         3,288 (2.5%)           Wyoming         348 (0.3%)         371 (0.3%)         322 (0.3%)         330 (0.3%)         288 (0.2%)           York         4.442 (3.6%)         4.472 (3.6%)         4.412 (3.6%)         4.747 (3.7%)         4,696 (3.6%)	0	, ,			, ,	, ,
Wayne       490 (0.4%)       507 (0.4%)       428 (0.4%)       503 (0.4%)       518 (0.4%)         Westmoreland       3,326 (2.7%)       3,209 (2.6%)       3,272 (2.7%)       3,318 (2.6%)       3,288 (2.5%)         Wyoming       348 (0.3%)       371 (0.3%)       322 (0.3%)       330 (0.3%)       288 (0.2%)         York       4.442 (3.6%)       4.472 (3.6%)       4.412 (3.6%)       4.747 (3.7%)       4,696 (3.6%)			, ,	, ,	, ,	
Westmoreland     3,326 (2.7%)     3,209 (2.6%)     3,272 (2.7%)     3,318 (2.6%)     3,288 (2.5%)       Wyoming     348 (0.3%)     371 (0.3%)     322 (0.3%)     330 (0.3%)     288 (0.2%)       York     4,442 (3.6%)     4,472 (3.6%)     4,412 (3.6%)     4,747 (3.7%)     4,696 (3.6%)			. ,			
Wyoming         348 (0.3%)         371 (0.3%)         322 (0.3%)         330 (0.3%)         288 (0.2%)           York         4.442 (3.6%)         4.472 (3.6%)         4.412 (3.6%)         4.747 (3.7%)         4,696 (3.6%)		, ,	, ,	, ,	, ,	
York 4,442 (3.6%) 4,472 (3.6%) 4,412 (3.6%) 4,747 (3.7%) <b>4,696 (3.6%)</b>						
				. ,		· · · · · · · · · · · · · · · · · · ·
	TOTAL	124,092 (99.8%)	124,149 (99.9%)	121,317 (99.9%)	127,127 (99.9%)	129,395 (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	2012 Fatalities	2013 Fatalities	2014 Fatalities	2015 Fatalities	2016 Fatalities
Adams	14 (1.1%)	5 (0.4%)	6 (0.5%)	14 (1.2%)	15 (1.3%)
Allegheny	67 (5.1%)	65 (5.4%)	59 (4.9%)	54 (4.5%)	72 (6.1%)
Armstrong	10 (0.8%)	6 (0.5%)	14 (1.2%)	14 (1.2%)	6 (0.5%)
Beaver	19 (1.5%)	12 (1.0%)	10 (0.8%)	12 (1.0%)	5 (0.4%)
Bedford	17 (1.3%)	12 (1.0%)	13 (1.1%)	7 (0.6%)	11 (0.9%)
Berks	50 (3.8%)	42 (3.5%)	33 (2.8%)	39 (3.3%)	35 (3.0%)
Blair	19 (1.5%)	24 (2.0%)	13 (1.1%)	23 (1.9%)	22 (1.9%)
Bradford	15 (1.2%)	15 (1.2%)	8 (0.7%)	16 (1.3%)	10 (0.8%)
Bucks	65 (5.0%)	44 (3.6%)	44 (3.7%)	55 (4.6%)	52 (4.4%)
Butler	28 (2.1%)	18 (1.5%)	25 (2.1%)	16 (1.3%)	30 (2.5%)
Cambria	17 (1.3%)	11 (0.9%)	13 (1.1%)	9 (0.8%)	12 (1.0%)
Cameron	2 (0.2%)	2 (0.2%)	1 (0.1%)	2 (0.2%)	0 (0.0%)
Carbon	6 (0.5%)	16 (1.3%)	10 (0.8%)	11 (0.9%)	12 (1.0%)
Centre	14 (1.1%)	12 (1.0%)	12 (1.0%)	15 (1.3%)	20 (1.7%)
Chester	31 (2.4%)	33 (2.7%)	34 (2.9%)	35 (2.9%)	24 (2.0%)
Clarion	7 (0.5%)	12 (1.0%)	5 (0.4%)	4 (0.3%)	4 (0.3%)
Clearfield	20 (1.5%)	15 (1.2%)	14 (1.2%)	20 (1.7%)	9 (0.8%)
Clinton	12 (0.9%)	9 (0.8%)	9 (0.8%)	10 (0.8%)	6 (0.5%)
Columbia	9 (0.7%)	6 (0.5%)	11 (0.9%)	14 (1.2%)	7 (0.6%)
Crawford	15 (1.2%)	29 (2.4%)	14 (1.2%)	8 (0.7%)	12 (1.0%)
Cumberland	18 (1.4%)	15 (1.2%)	25 (2.1%)	13 (1.1%)	28 (2.4%)
Dauphin Delaware	24 (1.8%)	25 (2.1%) 27 (2.2%)	17 (1.4%)	19 (1.6%)	30 (2.5%)
Delaware Elk	28 (2.1%)	, ,	26 (2.2%)	21 (1.8%) 4 (0.3%)	29 (2.4%)
Erie	4 (0.3%) 28 (2.1%)	8 (0.7%)	7 (0.6%)		11 (0.9%)
		35 (2.9%)	30 (2.5%)	31 (2.6%)	27 (2.3%)
Fayette Forest	20 (1.5%)	17 (1.4%)	18 (1.5%)	28 (2.3%) 0 (0.0%)	22 (1.9%)
Franklin	1 (0.1%)	5 (0.4%)	0 (0.0%)	25 (2.1%)	4 (0.3%)
Fulton	19 (1.5%) 4 (0.3%)	20 (1.7%) 1 (0.1%)	` '	5 (2.1%) 5 (0.4%)	20 (1.7%) 2 (0.2%)
Greene	16 (1.2%)	8 (0.7%)	9 (0.8%) 12 (1.0%)	6 (0.5%)	5 (0.4%)
Huntingdon	5 (0.4%)	14 (1.2%)	11 (0.9%)	7 (0.6%)	4 (0.3%)
Indiana	8 (0.6%)	15 (1.2%)	9 (0.8%)	17 (1.4%)	21 (1.8%)
Jefferson	9 (0.7%)	8 (0.7%)	5 (0.4%)	7 (0.6%)	11 (0.9%)
Juniata	3 (0.2%)	6 (0.5%)	5 (0.4%)	12 (1.0%)	6 (0.5%)
Lackawanna	16 (1.2%)	23 (1.9%)	17 (1.4%)	19 (1.6%)	20 (1.7%)
Lancaster	47 (3.6%)	45 (3.7%)	62 (5.2%)	48 (4.0%)	44 (3.7%)
Lawrence	11 (0.8%)	7 (0.6%)	10 (0.8%)	11 (0.9%)	10 (0.8%)
Lebanon	16 (1.2%)	18 (1.5%)	8 (0.7%)	19 (1.6%)	21 (1.8%)
Lehigh	42 (3.2%)	30 (2.5%)	37 (3.1%)	38 (3.2%)	28 (2.4%)
Luzerne	35 (2.7%)	39 (3.2%)	38 (3.2%)	39 (3.3%)	32 (2.7%)
Lycoming	15 (1.2%)	10 (0.8%)	18 (1.5%)	23 (1.9%)	15 (1.3%)
McKean	8 (0.6%)	15 (1.2%)	8 (0.7%)	7 (0.6%)	7 (0.6%)
Mercer	17 (1.3%)	28 (2.3%)	14 (1.2%)	13 (1.1%)	15 (1.3%)
Mifflin	4 (0.3%)	9 (0.8%)	5 (0.4%)	4 (0.3%)	3 (0.3%)
Monroe	27 (2.1%)	25 (2.1%)	23 (1.9%)	34 (2.8%)	29 (2.4%)
Montgomery	44 (3.4%)	40 (3.3%)	38 (3.2%)	35 (2.9%)	32 (2.7%)
Montour	0 (0.0%)	1 (0.1%)	2 (0.2%)	5 (0.4%)	3 (0.3%)
Northampton	23 (1.8%)	18 (1.5%)	29 (2.4%)	27 (2.3%)	29 (2.4%)
Northumberland	9 (0.7%)	15 (1.2%)	6 (0.5%)	9 (0.8%)	16 (1.4%)
Perry	18 (1.4%)	9 (0.8%)	7 (0.6%)	11 (0.9%)	11 (0.9%)
Philadelphia	107 (8.2%)	89 (7.4%)	97 (8.1%)	94 (7.8%)	101 (8.5%)
Pike	6 (0.5%)	8 (0.7%)	9 (0.8%)	7 (0.6%)	6 (0.5%)
Potter	2 (0.2%)	3 (0.3%)	0 (0.0%)	4 (0.3%)	2 (0.2%)
Schuylkill	33 (2.5%)	23 (1.9%)	29 (2.4%)	15 (1.3%)	14 (1.2%)
Snyder	8 (0.6%)	4 (0.3%)	7 (0.6%)	9 (0.8%)	4 (0.3%)
Somerset	12 (0.9%)	11 (0.9%)	16 (1.3%)	12 (1.0%)	8 (0.7%)
Sullivan	2 (0.2%)	0 (0.0%)	1 (0.1%)	2 (0.2%)	1 (0.1%)
Susquehanna	15 (1.2%)	8 (0.7%)	10 (0.8%)	10 (0.8%)	15 (1.3%)
Tioga	10 (0.8%)	11 (0.9%)	10 (0.8%)	5 (0.4%)	13 (1.1%)
Union	9 (0.7%)	5 (0.4%)	7 (0.6%)	3 (0.3%)	2 (0.2%)
Venango	18 (1.4%)	5 (0.4%)	8 (0.7%)	2 (0.2%)	11 (0.9%)
Warren	7 (0.5%)	4 (0.3%)	3 (0.3%)	6 (0.5%)	4 (0.3%)
Washington	29 (2.2%)	29 (2.4%)	29 (2.4%)	23 (1.9%)	22 (1.9%)
Wayne	8 (0.6%)	6 (0.5%)	11 (0.9%)	8 (0.7%)	12 (1.0%)
Westmoreland	55 (4.2%)	29 (2.4%)	35 (2.9%)	41 (3.4%)	33 (2.8%)
Wyoming	7 (0.5%)	5 (0.4%)	8 (0.7%)	4 (0.3%)	2 (0.2%)
York	26 (2.0%)	44 (3.6%)	45 (3.8%)	40 (3.3%)	39 (3.3%)
TOTAL	1,310 (100.0%)	1,208 (100.0%)	1,195 (100.0%)	1,200 (100.0%)	1,188 (100.0%)

### Pedestrian Fatalities by County—Five-Year Trends

County	2012	2013	2014	2015	2016
Adams	0	1	1	0	1
Allegheny	9	13	11	15	15
Armstrong	2	0	1	2	1
Beaver	3	1	0	1	1
Bedford	1	1	2	0	2
Berks	8	4	5	3	6
Blair	2	2	0	3	1
Bradford	0	0	0	4	0
Bucks	10	6	8	8	8
Butler	2	0	3	0	1
Cambria	1	0	0	3	1
Cameron	0	0	1	0	0
Carbon	0	1	1	1	0
Centre	0	1	2	1	3
Chester	2	5	5	3	4
Clarion	1	0	0	2	0
Clearfield	0	2	0	3	1
Clinton	0	0	2	0	0
Columbia	1	0	0	0	0
Crawford	2	0	0	2	0
Cumberland	2	1	1	2	3
Dauphin	7	2	0	4	6
Delaware	10	3	8	2	7
Elk	0	11	0	1	0
Erie	1	4	3	5	3 2
Fayette	1	1	0	2	2
Forest	0	0	0	0	0
Franklin	2	2	2	0	1
Fulton	0	0	0	1	0
Greene	1	0	0	0	0
Huntingdon	0	2	2	0	0
Indiana	1	0	0	2	1
Jefferson	0	0	0	0	0
Juniata	1	1	1	1	0
Lackawanna	2	7	3	4	5
Lancaster	<u>3</u>	2	11 3	7	8
Lawrence	1		3 1	1	2 1
Lebanon		0			
Lehigh	10 6	<u>6</u> 8	9 3	6	1
Luzerne	2		3 2		4
Lycoming McKean	1	0	0	1 0	0
Mercer	0	2	2	0	
Mifflin	0	4	1	0	1
Monroe	1	0	1	4	2 1
	11	9	4	9	
Montgomery					5
Montour Northampton	0 3	0 4	0 6	0 4	0 5
Northumberland	0	0	2	0	1
Perry	0	0	0	1	2
Philadelphia	34	37	38	26	44
Pike	3 <del>4</del> 1	1	0	0	0
Potter	0	0	0	0	0
Schuylkill	4	1	5	2	3
Snyder	2	1	0	1	0
Somerset	1	0	0	0	
Sullivan	0	0	1	0	1 0
Susquehanna	2	0	2	1	0
Tioga	0	0	0	0	0
Union	1	0	0	0	0
Venango	1	0	2	0	1
Warren	0	0	0	0	1
Washington	1	4	4	3	0 2
Wayne	1	0	1	0	0
Wayne Westmoreland	6	0	3	4	0
Wyoming	1	0	0	0	O 5 O
York	2	7	3	3	7
TOTAL	168	151	166	153	172
TOTAL	100	131	100	133	112

### Pedestrian Fatalities and Injuries by Age Group by County

	Age	0-4	Age	5-9	Age 1	0-14	Age '	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	4	1	8	0	4	1	17
Allegheny	0	6	0	17	0	24	12	273	3	81	15	401
Armstrong	0	0	0	0	0	0	1	0	0	3	1	3
Beaver	0	1	0	0	0	0	1	6	0	3	1	10
Bedford	0	0	0	1	0	1	1	3	1	2	2	7
Berks Blair	0	7	0	19 0	0	13 4	1	83 16	0	23 3	6	145 23
Bradford	0	0	0	0	0	0	0	3	0	0	0	3
Bucks	0	1	0	2	0	6	6	63	2	11	8	83
Butler	0	0	0	1	0	0	1	5	0	4	1	10
Cambria	1	0	0	0	0	1	0	6	0	4	1	11
Cameron	0	0	0	0	0	0	0	0	0	0	0	0
Carbon	0	1	0	0	0	0	0	4	0	0	0	5
Centre	0	0	0	2	0	1	1	38	2	2	3	43
Chester	0	1	0	1	0	11	4	49	0	16	4	78
Clarion	0	0	0	0	0	2	0	5	0	1	0	8
Clearfield Clinton	0 0	0 0	0	2 2	0	0	1 0	4 4	0	0 1	0	6 7
Columbia	0	0	0	0	0	1	0	8	0	<u> </u>	0	10
Crawford	0	0	0	1	0	2	0	9	0	4	0	16
Cumberland	0	1	0	4	0	3	2	19	1	6	3	33
Dauphin	0	8	0	8	0	10	5	43	1	14	6	83
Delaware	0	4	0	18	0	18	4	118	3	29	7	187
Elk	0	0	0	0	0	2	0	2	0	2	0	6
Erie	0	2	0	10	0	13	3	59	0	8	3	92
Fayette	0	1	0	0	0	1	2	8	0	2	2	12
Forest Franklin	0	0	0	0	0	2	0	0 12	0	3	0	0 17
Franklin Fulton	0	0	0	0	0	0	0	12	0	0	0	17
Greene	0	0	0	0	0	0	0	1	0	0	0	1
Huntingdon	0	0	0	0	0	1	0	4	0	0	0	5
Indiana	0	0	0	0	0	0	1	6	0	1	1	7
Jefferson	0	0	0	0	0	0	0	2	0	3	0	5
Juniata	0	0	0	0	0	1	0	1	0	2	0	4
Lackawanna	0	0	0	5	0	7	4	64	1	15	5	91
Lancaster	1	2	0	10	1	14	4	77	2	22	8	125
Lawrence	0	0	0	0	0	2	2	13	0	1	2	16
Lebanon Lehigh	0 0	0 8	0	5 16	0	3 24	1 1	13 102	0	5 26	1	26 176
Luzerne	0	2	0	4	0	4	4	53	0	18	4	81
Lycoming	0	0	0	4	0	1	3	15	0	9	3	29
McKean	0	0	0	1	0	2	0	5	0	1	0	9
Mercer	0	0	0	0	0	1	0	7	1	5	1	13
Mifflin	0	0	0	1	0	1	2	2	0	0	2	4
Monroe	0	0	0	0	0	1	1	16	0	2	1	19
Montgomery	0	2	1	11	0	11	1	160	3	34	5	218
Montour	0 0	0 1	0	0 4	0	0 5	0 3	1 55	0 2	2 10	0	3 75
Northampton Northumberland	0	0	0	0	0	1	1	55 9	0	2	5 1	12
Perry	0	1	0	0	1	1	1	2	0	2	2	6
Philadelphia	1	60	1	134	0	154	22	1,140	15	213	39	1,701
Pike	0	0	0	1	0	0	0	3	0	2	0	6
Potter	0	0	0	0	0	0	0	0	0	0	0	0
Schuylkill	0	0	0	4	0	3	2	13	0	6	2	26
Snyder	0	0	0	0	0	0	0	5	0	3	0	8
Somerset	0	0	0	0	0	0	1	4	0	0	1	4
Sullivan Susquehanna	0	0	0	0	0	0	0	0	0	0	0	0
Susquenanna Tioga	0	0	0	0	0	0	0	0	0	2	0	2
Union	0	0	0	0	0	2	0	1	0	1	0	4
Venango	0	0	0	0	0	0	1	6	0	<u>·</u> 1	1	7
Warren	0	0	0	1	0	0	0	5	0	3	0	9
Washington	0	0	0	0	0	1	2	14	0	5	2	20
Wayne	0	0	0	0	0	0	0	1	0	0	0	1
Westmoreland	0	1	0	0	0	1	3	24	2	10	5	36
Wyoming	0	0	0	0	0	0	0	2	0	1	0	3
York	1 4	3 <b>113</b>	0 <b>2</b>	6	0 <b>2</b>	10	2	63	4 <b>46</b>	14 <b>648</b>	7	96 4.166
TOTAL	4	113	2	296		370	112	2,739	46	648	166	4,166

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

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

Adams	County	2012 Belt Use	2013 Belt Use	2014 Belt Use	2015 Belt Use	2016 Belt Use
Armstrong 83 81 80 87 82 Beaver 67 68 69 77 77 82 Bedford 86 85 88 86 90 87 79 78 80 80 79 978 Blair 87 97 78 80 80 80 79 98 Blair 87 87 86 86 86 84 84 85 87 88 88 87 88 88 87 88 88 88 87 88 88	Adams	85	87	86	86	88
Beaver 67 68 69 72 70 88 68 69 72 70 88 68 65 88 88 66 90 88 67 87 87 86 68 64 84 87 87 88 68 68 84 88 87 88 88 89 88 87 88 88 89 88 87 88 88 89 88 87 88 88 89 88 88 87 88 88 89 88 88 87 88 88 89 88 88 87 88 88 89 88 89 88 89 88 89 88 89 88 89 88 89 88 89 89	Allegheny	77	78	78	80	80
Bedford	Armstrong	83	81	80	87	82
Berks 79 78 80 80 79 Bilair 67 87 86 86 84 Bradford 82 86 89 88 87 Buder 67 87 88 88 89 88 87 Butler 67 88 88 88 89 89 89 Butler 67 75 74 78 77 76 Cameron 81 84 94 95 84 Carboria 75 76 77 88 00 80 82 Carboria 76 77 88 80 80 80 80 82 Carboria 76 77 88 80 80 80 80 82 Carboria 76 77 88 80 80 80 80 82 Carboria 86 87 87 87 89 89 89 Carboria 86 85 89 89 89 89 89 Carboria 87 88 88 89 89 89 89 89 Carboria 87 88 89 89 89 89 Carboria 87 88 89 89 89 Carboria 88 89 89 89 89 Carboria 89 89 Carboria 89 89 89 Carboria 89 Carboria 89 Carboria 89 89 Carboria 89 Carboria 89 89 Carboria 89 Carbori	Beaver	67	68	69	72	70
Blair	Bedford	86	85	88	86	90
Bandford   82						
Bucks 82 81 83 85 94 99 99 10 11 11 11 11 11 11 11 11 11 11 11 11						
Butler			86		88	87
Cambria 75 74 78 77 76 76 78 94 95 94 4 95 94 95 94 4 95 94 95 94 4 95 94 95 94 4 95 94 95 94 4 95 94 95 94 95 94 95 94 95 94 95 94 95 94 95 94 95 94 95 95 94 95 95 94 95 95 94 95 95 94 95 95 95 95 95 95 95 95 95 95 95 95 95						
Cameron 81 84 94 95 84 Carbon 76 78 80 80 82 Carbon 76 78 87 87 89 89 89 Chester 86 87 87 87 87 89 Claron 86 85 87 87 87 89 Claron 86 85 89 89 89 88 Claron 86 85 89 89 89 88 Claron 86 84 91 89 89 Claron 86 84 91 89 89 Claron 86 84 91 89 89 Columbia 87 88 87 88 89 Columbia 87 88 87 88 89 Columbia 87 88 87 88 89 Columbia 87 88 89 89 89 Columbia 85 83 85 86 86 86 86 Columbia 85 88 89 89 89 89 Columbia 85 83 85 86 86 86 86 Columbia 86 84 81 89 89 89 89 Columbia 85 83 85 86 86 86 86 Columbia 86 88 89 89 89 89 Columbia 87 88 89 89 89 Columbia 85 83 85 86 86 86 86 Columbia 86 89 89 89 89 Columbia 85 83 85 86 86 86 Columbia 86 88 89 89 89 Columbia 86 88 89 89 89 Columbia 86 88 89 89 89 Columbia 87 89 89 Columbia 86 88 89 89 89 Columbia 87 89 89 Columbia 87 89 89 Columbia 88 89 89 89 Columbia 89 Columbia 89 89 Columbia 89 Columb						
Carbon 76						
Centre 86 87 87 87 89 89 89 61 61 61 61 61 61 61 61 61 61 61 61 61						
Chester 86 87 87 87 87 89 89 88 Clearfield 81 83 80 82 85 Clearfield 81 83 80 82 85 Clearfield 81 83 80 82 85 Clinton 86 84 91 89 89 89 89 89 60 60 60 60 60 60 60 60 60 60 60 60 60						
Clarifield 81 83 89 89 89 88 61 85 81 89 89 88 85 81 89 89 89 89 89 89 89 89 89 89 89 89 89						
Clearfield 81 83 80 82 85 Cilinton 86 84 91 89 89 89 89 Columbia 87 88 88 87 88 89 89 89 89 89 90 Columbia 86 84 85 87 88 89 89 89 89 90 Columbia 85 83 85 86 86 86 86 86 86 86 86 86 86 86 86 86						
Cinton						
Columbia 87 88 87 88 89 99 99 90 Carwford 82 84 85 87 88 89 89 99 90 90 90 90 90 90 90 90 90 90 90 90						
Crawford 82 84 85 87 88 Cumberland 88 89 89 89 89 90 Dauphin 85 83 85 86 86 86 Delaware 75 76 77 79 79 79 Elik 777 73 78 79 79 Elik 777 73 78 79 77 Erie 79 81 81 81 83 83 83 Fayette 81 80 81 81 81 81 81 81 Forest 82 87 82 83 82 Franklin 82 83 84 88 87 Fulton 90 89 89 88 88 87 Fulton 90 89 89 88 88 87 Fulton 90 89 89 88 88 87 Greene 79 82 777 82 81 Huntingdon 79 79 84 82 77 82 81 Huntingdon 79 85 84 85 85 Indiana 86 82 84 82 85 Juniata 85 83 81 85 79 Juniata 85 83 81 85 79 Lackawana 73 77 78 77 78 77 81 Lancaster 86 87 86 88 88 88 Lawrence 76 76 75 76 80 Lebigh 76 77 79 79 81 Lewrence 77 86 88 88 88 Lehigh 76 77 79 81 Lewrence 77 86 88 88 Lehigh 76 77 79 81 Lovering 80 83 81 80 80 McKean 76 76 78 79 79 81 McKean 76 77 89 81 Montour 93 91 91 91 Montour 93 91 91 90 92 Potter 77 80 86 87 87 Montour 93 91 91 91 Montour 93 91 91 91 Montour 93 91 91 91 Montour 93 91 90 92 Potter 77 80 86 87 87 87 Montour 93 91 91 91 Montour 93 91 91 90 92 Potter 77 80 86 86 87 Montour 93 86 89 90 90 Northampterland 75 77 78 86 87 Montour 93 86 89 90 Montour 93 86 89 90 Montour 93 86 86 87 Montour 93 86 89 90 Montour 93 86 89 90 Montour 94 86 86 85 Montour 95 86 86 86 85 Montour 95 86 86 86 85 Montour 93 86 89 90 Montour 93 86 89 90 Montour 93 86 89 90 Montour 94 86 86 85 Montour 95 86 86 89 90 Montour 96 86 86 87 Montour 97 86 86 86 86 85 Montour 98 86 89 90 Montour 99 86 88 88 Montour 99 86 89 90 Montour 90 Montour 93 86 89 90 Montour 93 86 89 90 Montour 93 86 89 90 Montour 94 86 86 86 85 Montour 95 86 86 86 86 85 Montour 95 86 86 86 87 Montour 95 86 87 Montour 95 86 86 86 87 Montour 95 86 87 Montour 95 86 87						
Cumberland         88         89         89         89         90           Dauphin         85         83         85         86         86           Delaware         75         76         77         79         79           Elk         77         73         78         79         77           Erie         79         81         81         83         83           Fayette         81         80         81         82         83         82         22         83         82         22         83         86         22         83         84         83         85         86         87         88         88         87         86         88         88         87         86         88         88         87         86         88         82         11         11         91         92         9						
Dauphin 85 83 85 86 86 86 86 86 86 86 86 86 86 86 86 86						
Delaware         75         76         77         79         79         77         78         79         77         78         77         78         82         83         82         77         82         81         81         81         81         81         81         81         81         81         81         82         87         82         83         88         88         88         87         77         82         81         11         81         79         84         83         82         11         81         83         82         14         83         82         14         83         82         14         83         82         14         83         82         14         83         82         14         83         82         14         83         82         14         83         82         85         86         88         <						
Elk 77 79 81 81 81 83 83 83 85 85 87 86 88 88 88 88 88 88 87 86 88 88 87 88 88 88 87 88 88 88 87 88 88						
Erie         79         81         81         83         83           Fayette         81         80         81         82         82         83         84         83         87         77         82         81         87         84         83         87         84         83         87         84         82         81         84         82         81         84         82         85         98         84         82         85         98         84         82         85         98         84         82         85         98         84         82         85         98         84         82         85         98         84         82         85         98         84         82         85         98         86         88         87         84         93         99         99         84         83         88         82         86         88         87         <						
Fayette 81 80 81 81 81 81 81 81 Forest 82 87 82 83 82 83 82 83 82 83 82 83 84 83 87 87 81 81 81 81 81 81 81 81 81 81 81 81 81						
Forest 82 87 82 83 82 Franklin 82 83 84 83 87 Fulton 90 89 88 88 88 87 Greene 79 82 77 82 81 Huntingdon 79 79 84 83 82 Indiana 86 82 84 82 85 Jefferson 81 79 85 87 84 Juniata 85 83 81 85 79 Lackawanna 73 77 78 77 81 78 79 Lackawanna 73 77 78 77 78 77 81 Lackawanna 73 77 78 78 77 81 Lackawanna 73 77 78 86 88 88 88 Lawrence 76 76 76 75 76 80 Lebanon 85 86 88 87 86 Lawrence 76 76 77 79 78 80 Luzeme 78 78 79 79 81 Luzeme 78 78 78 79 79 81 Luzeme 78 78 78 79 79 81 Mortography 80 83 81 80 80 McKean 76 77 80 80 78 81 Mercer 77 80 80 80 78 81 Mifflin 79 79 82 82 82 80 Monroe 86 87 87 91 91 Montour 93 91 91 92 92 Northampton 84 86 85 87 87 Montour 93 91 91 92 92 Northampton 84 86 85 87 87 Northumberland 75 75 77 80 81 Northumberland 75 75 77 80 83 Shullivian 90 92 92 92 Potter 73 79 80 83 81 Perry 84 84 84 84 87 86 Shullivian 77 86 80 Shullivian 77 80 83 81 Shullivian 77 80 83 81 Shullivian 77 86 80 83 Shullivian 77 80 83 81 Shullivian 84 86 85 87 87 Shullivian 77 80 83 81 Shullivian 77 86 99 90 90 Susquehana 86 85 84 86 85 83 Shullivian 77 86 99 90 90 Susquehana 86 85 84 86 89 89 Venango 83 84 86 86 87 Shullivian 77 86 99 90 90 Susquehana 86 85 84 86 89 89 Venango 83 84 86 86 89 89 Venango 83 84 86 86 87 Shullivian 77 86 89 90 91 Union 87 86 89 89 Venango 83 84 86 86 89 89 Venango 83 84 86 86 89 89 Venango 83 84 86 88 88 Vestmoreland 82 83 85 87 88 Westmoreland 82 83 85 87 88						
Franklin 82 83 84 83 87 Fulton 90 89 88 88 88 87 Greene 79 82 77 82 81 Huntingdon 79 79 79 84 83 82 Huntingdon 86 82 84 82 85 Jefferson 81 79 85 87 84 Juniata 85 83 81 85 79 Lackawanna 73 777 78 77 81 Lancaster 86 87 86 88 87 86 Lawrence 76 76 76 75 76 80 Lebigh 76 77 79 79 81 Lycoming 80 83 81 80 87 86 Lehigh 76 77 79 78 80 McKean 76 78 79 79 81 Lycoming 80 83 81 80 80 80 McKean 76 78 78 79 81 Mifflin 79 79 82 82 82 80 Montour 93 91 91 91 92 92 Montpurper 86 86 87 87 86 Montour 93 91 91 92 92 Northampton 84 86 85 87 86 Northumberland 75 75 75 77 80 81 Northumberland 75 75 75 77 80 81 Schuylkill 80 82 83 87 86 Northumberland 75 75 75 77 80 81 Schuylkill 80 82 83 81 80 83 81 Schuylkill 80 82 84 85 83 Snyder 89 86 86 89 90 90 Susquehanna 86 85 84 86 89 90 Susquehanna 86 86 87 87 86 89 90 Susquehanna 86 86 87 88 89 90 Susquehanna 86 86 86 87 88 90 Susquehanna 86 86 86 89 90 Susquehanna 86 86 86 87 88 89 89 Susquehanna 86 86 86 87 88 89 Supthoreland 82 83 88 Sustmoreland 82 83 88 88 Sustmoreland 82 83 88 88 Sustmoreland 82 83 88 88 88 88 88 88 88 88 88 88 88 88						
Fulton 90 89 88 88 88 87 Greene 79 82 777 82 81 Huntingdon 79 79 84 83 82 81 Huntingdon 79 79 84 83 82 82 84 83 82 84 85 85 86 86 82 84 82 85 85 85 87 84 84 82 85 85 85 87 84 84 82 85 85 85 87 84 84 82 85 85 85 87 84 84 82 85 85 85 87 84 84 82 85 85 85 87 85 87 84 84 85 85 85 87 87 87 86 87 87 87 87 86 87 87 87 87 86 87 87 87 86 87 87 87 86 87 87 87 86 87 87 87 86 87 87 87 86 87 87 87 86 87 87 87 86 87 87 87 86 87 87 87 86 87 87 87 86 87 87 87 86 87 87 87 86 87 87 87 86 87 87 87 86 87 87 87 86 87 87 87 86 87 87 86 87 87 86 87 87 86 87 87 86 87 87 86 87 87 86 88 87 87 86 88 87 87 86 88 87 87 86 88 87 87 86 88 87 87 86 88 87 87 86 88 87 87 86 88 87 87 86 88 89 89 89 89 80 80 80 80 80 80 80 80 80 80 80 80 80						
Greene         79         82         77         82         81           Huntingdon         79         79         84         83         82           Indiana         86         82         84         82         85           Jefferson         81         79         85         87         84           Juniata         85         83         81         85         79           Lackwanna         73         77         78         77         81           Lancaster         86         87         86         88         88           Lawrence         76         75         76         80           Lebanon         85         86         88         87         86           Lebigh         76         77         79         78         80           Luzerne         78         78         79         79         81         1         40         80           Lycoming         80         83         81         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Huntingdon 79 79 79 84 84 83 82 85 86 86 82 84 82 85 85 87 84 84 82 85 85 87 84 84 84 85 85 87 84 84 84 85 85 87 84 84 84 85 85 87 84 84 84 85 85 87 84 84 85 85 87 85 87 85 87 85 85 87 85 87 85 85 87 85 85 87 85 85 87 85 85 87 85 85 87 85 85 87 85 85 87 85 85 87 85 85 87 85 85 87 85 85 87 85 85 87 85 85 87 85 85 87 85 85 87 85 85 87 85 85 87 85 85 87 85 85 85 87 85 85 87 85 85 87 85 85 87 85 85 85 87 85 85 85 87 85 85 85 85 87 85 85 87 85 85 87 85 85 87 85 85 87 85 85 87 85 85 87 85 85 87 85 85 85 87 85 85 87 85 85 85 87 85 85 85 87 85 85 85 87 85 85 85 87 85 85 8						
Indiana						
Juniata         85         83         81         85         79           Lackawanna         73         77         78         77         81           Lancaster         86         87         86         88         88           Lawrence         76         76         75         76         80           Lebanon         85         86         88         87         86           Lebigh         76         77         79         78         80           Luzerne         78         78         79         79         81           Lycoming         80         83         81         80         80           McKean         76         78         76         81         78           Mercer         77         80         80         78         81           Mifflin         79         79         82         82         80           Morrore         86         87         87         91         91         91         91         91         91         91         91         91         91         91         91         92         92         92         92         92         92	-	86	82	84	82	85
Juniata         85         83         81         85         79           Lackawanna         73         77         78         77         81           Lancaster         86         87         86         88         88           Lawrence         76         76         75         76         80           Lebanon         85         86         88         87         86           Lebigh         76         77         79         78         80           Luzerne         78         78         79         79         81           Lycoming         80         83         81         80         80           McKean         76         78         76         81         78           Mercer         77         80         80         78         81           Mifflin         79         79         82         82         80           Morrore         86         87         87         91         91         91         91         91         91         91         91         91         91         91         91         92         92         92         92         92         92	Jefferson	81	79	85	87	84
Lancaster 86 87 86 88 88 88 Lawrence 76 76 76 76 80 Lebanon 85 86 86 88 87 86 Lebanon 85 86 86 88 87 86 Lebigh 76 77 79 78 80 Luzerne 78 78 78 79 79 81 Luzerne 78 78 76 81 80 80 83 81 80 80 80 83 81 80 80 80 80 80 80 80 80 80 80 80 80 80		85	83	81	85	79
Lawrence 76 76 76 75 76 80 Lebanon 85 86 86 88 87 86 Lebigh 76 77 79 78 80 Luzerne 78 78 78 79 79 81 Lycoming 80 83 81 80 80 McKean 76 78 76 81 78 Mifflin 79 79 82 82 82 80 Monroe 86 87 87 91 91 Montgomery 86 86 86 87 87 91 91 Montdur 93 91 91 91 92 92 Northampton 84 86 85 87 87 85 Northumberland 75 75 77 80 81 Perry 84 84 84 84 87 86 Philadelphia 40 40 40 41 40 Pike 91 90 92 92 92 Potter 73 79 80 83 81 Schuylkill 80 82 84 85 83 Snyder 89 86 86 86 87 87 Snyder 89 86 86 86 89 90 90 Susquehanna 86 85 87 86 89 Surrence 88 89 89 Venango 83 84 86 86 89 89 Venango 83 84 86 89 89 Venango 84 86 86 86 89 89 Venango 85 87 86 86 89 Warren 83 85 91 88 89 Versing 1 88 90 Warren 83 85 91 88 89 Versing 1 88 90 Warren 83 88 89 Versing 1 88 90 Warren 83 88 88 Westmoreland 82 83 85 85 87 Wyoming 85 79 85 87 88	Lackawanna	73	77	78	77	81
Lebanon         85         86         88         87         86           Lehigh         76         77         79         78         80           Luzerne         78         78         79         79         81           Lycoming         80         83         81         80         80           Morcer         77         80         80         78         81           Mercer         77         80         80         78         81           Mifflin         79         79         82         82         80           Monroe         86         87         87         91         91           Montour         93         91         91         92         92           Northampton         84         86         85         87         85           Northumberland         75         75         77         80         81           Perry         84         84         84         87         86           Philadelphia         40         40         41         40           Pike         91         90         92         92         92           Potter	Lancaster	86	87	86	88	88
Lehigh         76         77         79         78         80           Luzerne         78         78         79         79         81           Lycoming         80         83         81         80         80           McKean         76         78         76         81         78           Mercer         77         80         80         78         81           Mifflin         79         79         82         82         80           Monroce         86         87         87         91         91           Montgomery         86         86         87         87         87           Montour         93         91         91         92         92           Northampton         84         86         85         87         85           Northumberland         75         75         77         80         81           Perry         84         84         84         84         87         86           Piladelphia         40         40         40         41         40           Pike         91         90         92         92         92 <td>Lawrence</td> <td>76</td> <td>76</td> <td>75</td> <td>76</td> <td>80</td>	Lawrence	76	76	75	76	80
Luzerne         78         78         79         79         81           Lycoming         80         83         81         80         80           McKean         76         78         76         81         78           Mercer         77         80         80         78         81           Mifflin         79         79         82         82         80           Monroe         86         87         87         91         91           Montour         93         91         91         92         92           Northampton         84         86         85         87         85           Northumberland         75         75         77         80         81           Perry         84         84         84         87         86           Philadelphia         40         40         41         40           Pike         91         90         92         92         92           Potter         73         79         80         83         81           Schuylkill         80         82         84         85         83           Snyder	Lebanon	85	86	88	87	86
Lycoming         80         83         81         80         80           McKean         76         78         76         81         78           Mercer         77         80         80         78         81           Mifflin         79         79         82         82         80           Monroe         86         87         87         91         91           Montogomery         86         86         87         87         87           Morthampton         84         86         85         87         85           Northumberland         75         75         77         80         81           Perry         84         84         84         87         86           Philadelphia         40         40         40         41         40           Pike         91         90         92         92         92         92           Potter         73         79         80         83         81           Schuylkill         80         82         84         85         83           Snyder         89         86         89         90         90	Lehigh	76	77		78	80
McKean         76         78         76         81         78           Mercer         77         80         80         78         81           Mifflin         79         79         82         82         80           Monroe         86         87         87         91         91         91           Montour         93         91         91         92         92         Northampton         84         86         85         87         85           Northumberland         75         75         77         80         81         86         81         86         81         86         81         86         81         86         81         86         81         86         81         86         81         85         80         81         86         85         87         85         80         81         86         81         86         81         86         81         86         81         86         81         86         81         86         81         86         81         86         81         89         86         82         82         84         83         83         81         83 <td>Luzerne</td> <td>78</td> <td>78</td> <td>79</td> <td>79</td> <td>81</td>	Luzerne	78	78	79	79	81
Mercer         77         80         80         78         81           Mifflin         79         79         82         82         80           Monroe         86         87         87         91         91           Montour         86         86         87         87         87           Montour         93         91         91         92         92           Northampton         84         86         85         87         85           Northumberland         75         75         77         80         81           Perry         84         84         84         87         86           Philadelphia         40         40         40         41         40           Pike         91         90         92         92         92           Potter         73         79         80         83         81           Schuylkill         80         82         84         85         83           Snyder         89         86         89         90         90           Somerset         84         86         86         85         84						
Mifflin       79       79       82       82       80         Monroe       86       87       87       91       91         Montgomery       86       86       86       87       87       87         Montour       93       91       91       92       92         Northampton       84       86       85       87       85         Northumberland       75       75       77       80       81         Perry       84       84       84       87       86         Philadelphia       40       40       40       41       40         Pike       91       90       92       92       92         Potter       73       79       80       83       81         Schuylkill       80       82       84       85       83         Snyder       89       86       89       90       90         Susquehanna       77       86       92       90       90         Susquehanna       86       85       84       86       83         Tioga       87       86       86       89       89         <						
Monroe         86         87         87         91         91           Montgomery         86         86         87         87         87           Montour         93         91         91         92         92           Northampton         84         86         85         87         85           Northumberland         75         75         77         80         81           Perry         84         84         84         87         86           Philadelphia         40         40         40         41         40           Pike         91         90         92         92         92           Potter         73         79         80         83         81           Schuylkill         80         82         84         85         83           Snyder         89         86         89         90         90           Somerset         84         86         86         85         84           Sullivan         77         86         92         90         90           Susquehanna         86         85         84         86         83						
Montgomery         86         86         87         87         87           Montour         93         91         91         92         92           Northampton         84         86         85         87         85           Northumberland         75         75         77         80         81           Perry         84         84         84         87         86           Philadelphia         40         40         40         41         40           Pike         91         90         92         92         92           Potter         73         79         80         83         81           Schuylkill         80         82         84         85         83           Snyder         89         86         89         90         90           Somerset         84         86         86         85         84           Sullivan         77         86         92         90         90           Susquehanna         86         85         84         86         83           Tioga         87         86         86         90         91						
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*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.

## ounties

### Alcohol-Related Fatalities by County—Five-Year Trends

County	2012 Fatalities	2013 Fatalities	2014 Fatalities	2015 Fatalities	2016 Fatalities
Adams	8	3	1	2	4
Allegheny	10	19	19	11	19
Armstrong	1	4	7	4	1
Beaver	6	3	3	0	2
Bedford	4	3	2	2	2
Berks	17	13	6	14	11
Blair	9	8	1	8	5
Bradford	2	7	4	7	1
Bucks	26	11	14	13	16
Butler	9	1	9	3	6
Cambria	8	5	6	2	2
Cameron	1	1	1	0	0
Carbon	1	6	4	2	1
Centre	1	3	2	6	3
Chester	12	17	11	15	5
Clarion	1	6	2	1	0
Clearfield	8	3	2	9	1
Clinton	3	1	4	3	0
Columbia	2	2	3	4	1
Crawford	4	10	5	2	6
Cumberland	3	4	8	2	6
Dauphin	6	5	3	6	7
Delaware	8	7	6	7	6
Elk	2	4	4	0	1
Erie	10	13	9	6	4
Fayette	5	8	5	5	7
Forest	0	1	0	0	0
Franklin	5	2	3	2	2
Fulton	2	0	1	1	0
Greene	3	0	3	2	0
Huntingdon	1	2	6	2	2
Indiana	4	3	3	9	14
Jefferson	3	1	2	4	1
Juniata	2	0	2	3	<u>'</u> 1
Lackawanna	5	7	5	5	9
Lancaster	15	, 18	16	16	13
Lawrence	2	2	2	2	2
Lebanon	3	6	1	1	1
Lehigh	13	11	7	14	8
Luzerne	13	13	17	18	8
	6	5	9	5	3
Lycoming McKean	2	5	4	2	2
Mercer	9	8	3	1	3
Mifflin	1	2	0	0	1
Monroe	9	8 12	8	6	11
Montgomery	19		11	6	9
Montour	0	0	1	1	0
Northampton	4	9	8	10	14
Northumberland	2	0	0	1	4
Perry	7	7	0	1	0
Philadelphia	37	22	18	31	16
Pike	0	1	4	4	0
Potter	1	1	0	0	0
Schuylkill	5	5	6	4	3
Snyder	0	2	0	4	2
Somerset	6	7	4	3	0
Sullivan	2	0	0	1	0
Susquehanna	8	5	6	2	6
Tioga	2	2	3	1	4
Union	3	1	2	2	0
Venango	3	1	4	0	2
Warren	1	1	0	0	0
Washington	7	9	12	9	8
Wayne	2	2	1	4	7
	16	16	7	16	13
Westmoreland					
Wyoming	3	1	2	1	0
	3 11	1 16	2 11	1 17	0 11

### Pennsylvania Counties

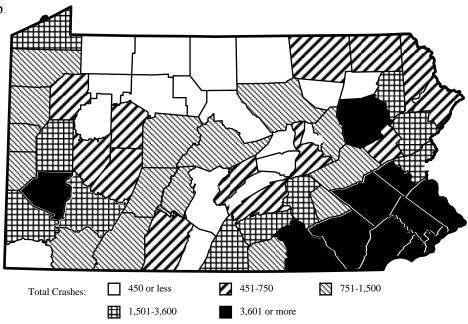
Use the map below as a key to county names for other maps.



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

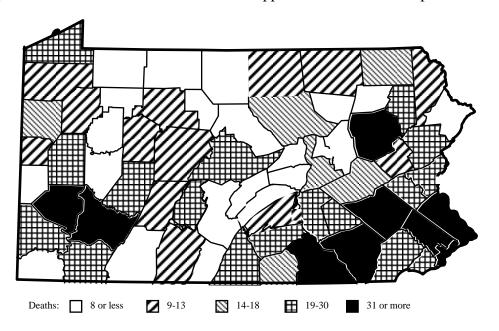
### Total Crashes by County

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.



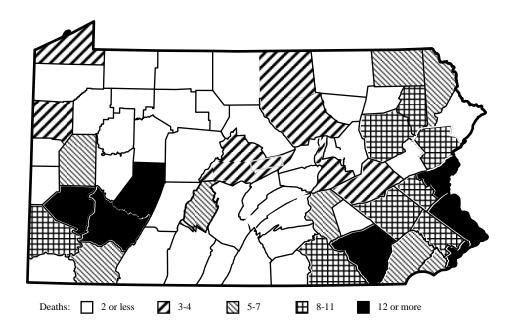
### Traffic Fatalities by County

Referring to the map below, 37% of the total traffic fatalities occurred in only 9 of Pennsylvania's 67 counties. These 9 counties appear in black on the map.



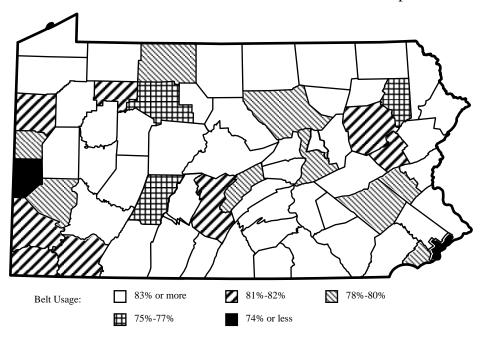
### Alcohol-Related Fatalities by County

Referring to the map below, 35% of the total alcohol-related fatalities occurred in only 7 of Pennsylvania's 67 counties. These 7 counties appear in black on the map.



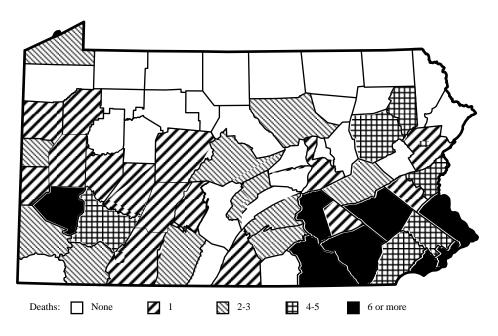
### Percent Seat Belt Use in Crashes by County

While the percentage of seat belt use in crashes tended to be lower in counties with major urban areas, some rural areas also had lower seat belt use in crashes. Below the worst 2 counties having 74% or less seat belt use in crashes are shown in black on the map.



### Pedestrian Fatalities by County

Referring to the map below, 59% of the total pedestrian fatalities occurred in only 8 of Pennsylvania's 67 counties. These 8 counties appear in black on the map.

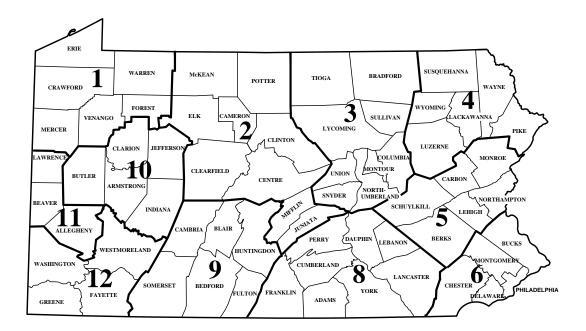


# Counties

### 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 2016 by engineering district.

District	Crashes	<b>Fatalities</b>	Injuries
01	5,983	73	3,763
02	4,170	64	2,380
03	4,660	71	2,837
04	8,251	87	5,000
05	17,666	147	10,981
06	37,038	238	28,099
80	21,008	208	12,489
09	4,801	59	2,734
10	3,941	72	2,131
11	14,939	87	8,565
12	6,828	82	3,960
Total	129,395	1,188	82,939



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### NEW 2016 Pennsylvania Crash Facts & Statistics Feedback Survey

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2016 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.

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