# **Traffic Safety Facts**

# 2006-2015 Data



#### August 2017

DOT HS 812 366

# 

### **Key Findings**

- From 2006 to 2015 there were 1,313 people of all ages killed in schooltransportation-related crashes—an average of 131 fatalities per year.
- From 2006 to 2015 there were 301 school-age children killed in schooltransportation-related crashes: 54 were occupants of school transportation vehicles, 137 were occupants of other vehicles, 102 were pedestrians, and 8 were pedalcyclists.
- More school-age pedestrians were killed from 6 to 7 a.m., 7 to 8 a.m. and from 3 to 4 p.m. than any other hours of the day.
- Thirty-five (34%) of the school-age pedestrians killed in school-transportation-related crashes from 2006 to 2015 were 8 to 13 years old.
- Nearly two-thirds (64%) of the school-age pedestrians fatally injured in school-transportation-related crashes were struck by school buses or vehicles functioning as school buses (2006 to 2015).
- Among school-age child occupants killed in school-transportation-related crashes, almost three times more died in other vehicles (137), than in school transportation vehicles (54).
- Among the 113 occupants killed in school transportation vehicles, 49 were drivers and 64 were passengers.
- Impacts to the front of school transportation vehicles occurred in 45 percent of fatal school-transportation-related crashes.



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# **School-Transportation-Related Crashes**

A school-transportation-related crash is a crash that involves, either directly or indirectly, a school bus body vehicle, or a non-school bus functioning as a school bus, transporting children to or from school or school-related activities. In this factsheet "school–age" children are defined as children 18 and younger.

This factsheet includes 10 years of data, from 2006 to 2015. Information on school-transportation-related crashes is presented as follows.

- Overview
- Person Type
- Age Group
- School Age Fatalities by Time of Day
- School Bus Occupant Fatalities by Impact Point and Crash Type
- School Bus Occupant Fatalities
- Vehicle Maneuver and Pedestrian Fatalities

This fact sheet contains information on motor vehicle fatalities and fatal crashes, based on data from the Fatality Analysis Reporting System (FARS). FARS is a census of fatal crashes in the 50 States, the District of Columbia, and Puerto Rico (although Puerto Rico data is not included in this factsheet).

# Overview

From 2006 to 2015 there were 324,710 fatal motor vehicle traffic crashes. Of those crashes, 1,172 (0.4%) were classified as school-transportation-related.

Between 2006 and 2015, there have been 1,313 people killed in school-transportation-related crashes—an average of 131 fatalities per year. Occupants of school transportation vehicles accounted for 9 percent of the fatalities, and nonoccupants (pedestrians, bicyclists, etc.) accounted for 20 percent of the fatalities. Most (72%) of the people who lost their lives in these crashes were occupants of other vehicles involved (Table 1).

From 2006 to 2015, 102 school-age pedestrians (18 and younger) have died in school-transportationrelated crashes. Sixty-one percent were struck by school buses, 3 percent by vehicles functioning as school buses, and 36 percent by other vehicles (passenger cars, light trucks and vans, large trucks, and motorcycles, etc.) involved in the crashes.

# **Person Type**

Table 1 shows fatalities by person type in school-transportation-related crashes (2006-2015). Among the 113 occupants killed in school transportation vehicles, 49 were drivers and 64 were passengers. Among the 218 pedestrians killed in school-transportation-related crashes, 167 were struck by school vehicles and 50 were struck by other vehicles.

From 2006 to 2015, three drivers and four passengers have died in school bus body vehicles providing transportation for purposes other than school-or school-related activities (churches, civic organizations, etc.).

# Table 1Fatalities (All Ages) in School-Transportation-Related Crashes, by Year and Person Type, 2006–2015

			-							
	Occupants of School Transportation Vehicles*				Pedestrians					
				Struck by Struck by			Other	Occupants of		
Year	Driver	Passenger	Total	School Vehicle	Other Vehicle	Total	Nonoccupants	Other Vehicles	Total	
2006	3	5	8	19	3	22	2	118	150	
2007	4	1	5	16	2	19**	6	112	142	
2008	4	15	19	20	1	21	8	104	152	
2009	2	3	5	13	8	21	1	91	118	
2010	6	10	16	21	5	26	4	84	130	
2011	7	4	11	12	9	21	5	86	123	
2012	6	8	14	18	9	27	3	88	132	
2013	5	6	11	16	6	22	5	93	131	
2014	4	7	11	21	7	28	4	77	120	
2015	8	5	13	11	0	11	4	87	115	
Total	49	64	113	167	50	218**	42	940	1,313	
Average	5	6	11	17	5	22	4	94	131	

Source: FARS 2006-2014 Final File, 2015 ARF.

\*Includes school bus body type and non-school bus used as school bus.

\*\*Includes 1 pedestrian fatality in which the striking vehicle was not identified.

# Age Group

From 2006 to 2015, there were 301 school-age children who died in school-transportation-related crashes: 54 were occupants of school transportation vehicles, 137 were occupants of other vehicles, 102 were pedestrians, and 8 were pedalcyclists.

Figure 1 presents the total number of school bus occupant and pedestrian fatalities in school-transportation-related crashes by age group between 2006 and 2015. Among all school-age pedestrians killed in school-transportation-related crashes, 34 (33%) were 5 to 7 years old and 35 (34%) were 8 to 13 years old.

#### Figure 1 Total School Bus Occupant and Pedestrian Fatalities in School-Transportation-Related Crashes, by Age Group, 2006–2015



Source: Fatality Analysis Reporting System (FARS) 2006-2014 Final File, 2015 Annual Report File (ARF). Note: Occupant fatalities shown are for occupants of school buses and non-school buses used as school buses.

On average, 7 school-age pedestrians killed were struck by school transportation vehicles (school buses and non-school-bus vehicles

used as school buses) each year, and 4 by other vehicles involved in school-bus-related crashes.

# School Age Fatalities by Time of Day

Table 2 provides school-age (18 and younger) fatalities in schooltransportation-related crashes by time of day. Among the 301 school-age fatalities between 2006 and 2015, more school-age pedestrians were killed from 6 to 7 a.m., 7 to 8 a.m., and from 3 to 4 p.m. than any other hours of the day. There were almost three times more fatalities among occupants of other vehicles (137) than occupants of school transportation vehicles (54).

#### Table 2

School-Age (18 and Younger) Fatalities in School-Transportation-Related Crashes, by Time of Day and Person Type, 2006–2015

Time of Day	Occupants of School Transportation Vehicles	Occupants of Other Vehicles	Pedestrians	Pedalcyclists	Total
Midnight-5:59 a.m.	2	1	1	0	4
6-6:59 a.m.	2	11	21	0	34
7-7:59 a.m.	7	29	21	1	58
8-8:59 a.m.	3	10	8	0	21
9-9:59 a.m.	0	5	0	1	6
10-10:59 a.m.	4	5	0	0	9
11-11:59 a.m.	1	3	0	0	4
Noon-12:59 p.m.	1	1	2	0	4
1-1:59 p.m.	2	2	1	0	5
2-2:59 p.m.	8	11	6	3	28
3-3:59 p.m.	12	33	24	2	71
4-4:59 p.m.	8	15	10	0	33
5-11:59 p.m.	4	11	8	1	24
Total	54	137	102	8	301

Source: FARS 2006-2014 Final File, 2015 ARF.

# School Bus Occupant Fatalities by Impact Point and Crash Type

Table 3 shows the total number of school bus occupant fatalities in school-transportation-related crashes by initial impact point on the school transportation vehicle. There were 88 crashes in which at least one occupant of a school transportation vehicle died. Sixty-one percent of those crashes (54) involved at least one other vehicle. Impacts to the front of the school transportation vehicle occurred in 45 percent of fatal school-transportation-related crashes and impacts to the right side of the school transportation vehicle occurred in 13 percent.

Table 3

#### Fatal Crashes and Total School Transportation Occupant Fatalities (All Ages) in School-Transportation-Related Crashes, By Initial Impact Point on School Transportation Vehicle and Crash Type, 2006–2015

	Crash Type						
Initial Impact Point on	Single-	Vehicle	Multiple	-Vehicle	Total		
School Transportation Vehicle	Crashes*	Fatalities	Crashes*	Fatalities	Crashes*	Fatalities	
Front	12	14	28	35	40	49	
Right Side	6	7	5	10	11	17	
Left Side	0	0	11	18	11	18	
Rear	1	1	7	8	8	9	
Тор	0	0	0	0	0	0	
Undercarriage	2	2	1	1	3	3	
Non-Collision	12	13	0	0	12	13	
Other/Unknown	1	1	2	3	3	4	
Total	34	38	54	75	88	113	

Source: FARS 2006-2014 Final File, 2015 ARF.

\*Only includes school-transportation-related crashes in which there was a fatality in a school transportation vehicle.

## **School Bus Occupant Fatalities**

Table 4 provides the information on school-transportation-related crashes involving school bus occupant fatalities. In the 34 single-vehicle crashes, 38 occupants—18 drivers and 20 passengers—were killed. In the 54 multiple-vehicle crashes, 31 drivers and 44 passengers died in the school buses. In the 34 single-vehicle crashes, the first harmful events were as follows: striking a fixed object (20 crashes), the vehicle overturning (6 crashes), a person falling from the vehicle (7 crashes), and 1 other crash.

#### Table 4

School-Transportation-Related Crashes Involving School Bus Occupant Fatalities (All Ages), by Year, Vehicle Occupied, and Crash Type, 2006–2015

	School Bus Body Type				Vehicle Used as School Bus				Total			
	Single-Vehicle		Multiple-Vehicle		Single-Vehicle		Multiple-Vehicle		Single-Vehicle		Multiple-Vehicle	
Year	Crashes	Fatalities	Crashes	Fatalities	Crashes	Fatalities	Crashes	Fatalities	Crashes	Fatalities	Crashes	Fatalities
2006	0	0	3	6	0	0	2	2	0	0	5	8
2007	2	2	1	1	0	0	1	2	2	2	2	3
2008	3	3	6	9	1	1	3	6	4	4	9	15
2009	1	1	2	2	0	0	1	2	1	1	3	4
2010	8	8	6	6	1	1	1	1	9	9	7	7
2011	3	3	5	6	1	1	1	1	4	4	6	7
2012	3	5	5	7	1	1	1	1	4	6	6	8
2013	5	6	3	3	0	0	1	2	5	6	4	5
2014	2	2	3	8	0	0	1	1	2	2	4	9
2015	2	3	5	6	1	1	3	3	3	4	8	9
Total	29	33	39	54	5	5	15	21	34	38	54	75
Average	3	3	4	5	1	1	2	2	3	4	5	8

Source: FARS 2006-2014 Final File, 2015 ARF.

Note: Does not include occupants of other vehicles in school-transportation-related crashes.

### Vehicle Maneuver and Pedestrian Fatalities

Table 5 presents the number of school-age pedestrians killed in school-transportation-related crashes by vehicle maneuver and vehicle type. From 2006 to 2015 almost two-thirds (64%) of the school-age pedestrians fatally injured in crashes were struck by school buses or vehicles functioning as school buses, while 36

percent were struck by vehicles of other body types. Of school-age pedestrians fatally injured in school-transportation-related crashes, 32 percent were struck by school buses or vehicles functioning as school buses that were going straight.

Table 5

School-Age (18 and Younger) Pedestrians Killed in School-Transportation-Related Crashes, by Vehicle Maneuver and Vehicle Type, 2006–2015

Vehicle Maneuver	School Bus Body Type	Vehicle Used as School Bus	Other Body Type	Total	
Going Straight	31	2	28	61	
Slowing in Road	1	0	0	1	
Accelerating in Road	2	0	0	2	
Starting in Road	14	0	0	14	
Passing or Overtaking Another Vehicle	0	0	4	4	
Leaving/Entering a Parked Position	2	0	0	2	
Turning Right	2	0	1	3	
Turning Left	8	1	0	9	
Negotiating a Curve	2	0	4	6	
Total	62	3	37	102	

Source: FARS 2006-2014 Final File, 2015 ARF.

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## For More Information:

Information on traffic fatalities is available from the National Center for Statistics and Analysis (NCSA), NSA-230, 1200 New Jersey Avenue SE., Washington, DC 20590. NCSA can be contacted at 800-934-8517 or by e-mail at ncsarequests@dot.gov. General information on highway traffic safety can be found at www.nhtsa.gov/NCSA. To report a safety-related problem or to inquire about motor vehicle safety information, contact the Vehicle Safety Hotline at 888-327-4236.

Other fact sheets available from the National Center for Statistics and Analysis are Alcohol-Impaired Driving, Bicyclists and Other Cyclists, Children, Large Trucks, Motorcycles, Occupant Protection, Older Population, Passenger Vehicles, Pedestrians, Rural/Urban Comparisons, Speeding, State Alcohol Estimates, State Traffic Data, Summary of Motor Vehicle Crashes, and Young Drivers. Detailed data on motor vehicle traffic crashes are published annually in Traffic Safety Facts: A Compilation of Motor Vehicle Crash Data from the Fatality Analysis Reporting System and the General Estimates System. The fact sheets and annual Traffic Safety Facts report can be found at https://crashstats.nhtsa.dot.gov/.



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