

# INDIANA CRASH FACTS



# 2014





## INDIANA TRAFFIC SAFETY QUICK FACTS - 2014

- 205,532 traffic collisions resulting in injury or property damage occurred, a 6 percent increase from 2013.
- There were 702 fatal collisions in 2014 (resulting in 743 fatalities), a 1 percent decrease from 2013.
- 3,979 collisions (2 percent of all collisions) occurred in a work zone in 2014.
- 24,810 collisions (12 percent of all collisions) in 2014 were speed-related, representing a 33 percent increase from the 2013 number of collisions that were speed-related.
- 26 percent (184 of 702) of fatal collisions were speed-related.
- In 2014, there were 94 fatal crashes and 101 fatalities involving a vehicle driver legally impaired by alcohol (i.e., blood alcohol content at or above 0.08 g/dL).
- 13.4 percent (94 of 702) of fatal collisions involved a driver that was legally alcohol-impaired.
- The average economic cost of collisions involving an alcohol-impaired driver was \$41,776.
- Collisions involving motorcycles decreased 3.3 percent in 2014, while fatal collisions involving motorcycles increased 7.9 percent (from 114 in 2013 to 123 in 2014).
- Overall collision counts were higher in Indiana *urban* (138,760) and *suburban* (27,129) locales than in surrounding *exurban* (12,953) and *rural* (14,827) areas.
- Rates of fatal and incapacitating injury collisions per 1,000 total collisions were higher in *suburban* (38 per 1,000), *exurban* (39 per 1,000), and *rural* (41) locales than in areas designated as *urban* (20).
- January had the highest frequency of collisions among all months (23,532, or 11 percent of all collisions in 2014).
- The 15 to 20 year old age group had the highest rate of drivers involved in all collisions in 2014 (1,178 per 10,000 licensed drivers).
- 20 children (ages 14 and under) were killed in 2014 collisions, a 43 percent decrease from 2013.
- 89 non-motorists were killed in collisions in 2014 (76 pedestrians and 13 pedalcyclists).
- 53 percent of passenger vehicle occupants killed in collisions were not wearing seatbelts.\*
- In 2014, the economic costs of motor vehicle collisions in Indiana approached \$3.8 billion.

\*Passenger vehicles include *passenger cars, pickup trucks, SUVs, and vans.*

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

## INTRODUCTION AND ACKNOWLEDGEMENTS

Designing and implementing effective traffic safety policies requires data-driven analysis of traffic collisions. To help in the policy-making process, the Indiana University Public Policy Institute (PPI) has collaborated with the Indiana Criminal Justice Institute (ICJI) to analyze data from the Automated Reporting Information Exchange System (ARIES) database maintained by the Indiana State Police. Research findings have been summarized in a series of Fact Sheets on various aspects of traffic collisions, including alcohol-impaired crashes, children, motorcycles, trucks, dangerous driving, occupant protection, and young drivers. Portions of the content in those reports and in this Crash Fact Book are based on guidelines provided by the U.S. National Highway Traffic Safety Administration (NHTSA).

The *Indiana Officer's Standard Crash Report*, completed by local and state law enforcement officers, contains over 200 data items for each collision reported. These include the date, time and location of the collision, the types of vehicle(s) involved, a description of the events prior to the collision, conditions at the time of the collision, as well as information on the driver and other passengers, pedestrians, pedalcyclists, and animal-drawn vehicle occupants involved in the collision. These statistics are used to inform the public, as well as state and national policy-makers, on matters of road safety and serve as the analytical foundation of traffic safety program planning and design in Indiana.

PPI would like to thank the Indiana Criminal Justice Institute, NHTSA, the Federal Highway Administration (FHWA), the Indiana State Police, and Appriss for their continued support and guidance throughout the process of creating these reports. PPI would also like to acknowledge the assistance and cooperation of the Indiana Bureau of Motor Vehicles in providing data on Indiana registered vehicles and licensed drivers and to the Indiana Department of Transportation for the vehicle miles traveled data.

Funding for these publications is provided by the Indiana Criminal Justice Institute and the National Highway Traffic Safety Administration. An electronic copy of the Fact Sheets and this document can be accessed via the PPI website (<http://policyinstitute.iu.edu/>), the ICJI traffic safety website ([www.in.gov/cji/](http://www.in.gov/cji/)), or you may contact the IU Public Policy Institute at 317-261-3000. This publication may be reproduced free of charge.

### **Indiana University Public Policy Institute, Indianapolis**

Samuel Nunn, Public Safety Research Director

### **Traffic Records Research Team:**

Dona Sapp, Senior Policy Analyst

Samuel Nunn, Director

Rachel Thelin, Senior Policy Analyst

Seth Payton, Assistant Professor, School of Public and Environmental Affairs

Bradley Ray, Assistant Professor, School of Public and Environmental Affairs

### **Assisted by:**

Tami Barreto, Editor

Susan Hill, Graphic Designer

Shannon Link, Research Assistant

### **NOTES:**

**Data discrepancies may exist between the 2014 Indiana traffic safety reports and previous traffic safety publications due to updates to the Indiana State Police ARIES data that have occurred since the original publication dates. The most recent ARIES upgrade added a clarification to reporting officers on the definition of *incapacitating injuries* criteria to include "transported from scene for treatment"; therefore, 2014 increases in *incapacitating injuries* should be interpreted with caution. Additionally, when considering reported decreases in 2014 *alcohol-impaired crashes and fatalities*, it is important to note that these numbers are likely to increase once BAC results reported after the March 23, 2015, extract are analyzed.**



STATE OF INDIANA



Michael R. Pence, Governor  
David R. Murtaugh, Executive Director

September 28, 2015

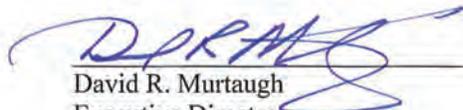
Dear Traffic Safety Partners,

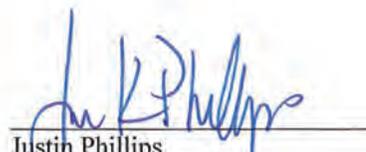
Over the past several years there have been great strides towards improving traffic safety throughout Indiana. Unfortunately a closer look at the data reveals some disturbing trends in a small number of driver demographics around the state. Motorcyclists, distracted drivers, and rural populations continue to be overrepresented in the categories of crashes, injuries, and fatalities. The 2014 traffic safety fact sheets and this publication, the *Indiana Crash Facts* book, provide accurate, relevant, and timely data for addressing these problematic areas.

One of the more interesting items the Traffic Safety Division (TSD) and the other partners have used is the breakdown of motor vehicle collisions by location. These classifications have been developed by the Indiana University Public Policy Institute (PPI). The last chapter of this year's report provides a series of detailed tables and state-level maps illustrating county rates and percentages of crashes by a number of significant crash metrics for each of Indiana's 92 counties. The chapter also includes several exhibits that show each specific county's rank across each of the crash metrics examined, including total crashes per vehicle miles traveled, restraint use, speed-related crashes, impaired driving, motorcycle involvement, and young driver involvement.

The Criminal Justice Institute would like to express our gratitude to all of the traffic safety partners throughout Indiana. Your dedication to improving safety on our roadways is truly helping to save lives. The ongoing collaboration of all of our partners will ensure Hoosier motorists return home safely every trip, every time.

Sincerely,

  
David R. Murtaugh  
Executive Director  
Indiana Criminal Justice Institute

  
Justin Phillips  
Traffic Safety Director  
Indiana Criminal Justice Institute

## **MEMBERS OF THE GOVERNOR'S COUNCIL ON IMPAIRED AND DANGEROUS DRIVING**

**Todd Meyer - Chairman**  
Prosecutor, Boone County

**Doug Carter**  
Superintendent, Indiana State Police

**Dr. Joseph O'Neil**  
Co-Medical Director, Automotive Safety Program  
Riley Hospital for Children, IU Health

**Ed Littlejohn**  
Director, Indiana Department of Toxicology

**Jason Dombkowski**  
Chief, West Lafayette Police Department

**Matt Meyers**  
Sheriff, Bartholomew County Sheriff

**Pat Harrington**  
Prosecutor, Tippecanoe County

*A division of the*



The Governor's Council on Impaired and Dangerous Driving, a division of the Indiana Criminal Justice Institute, serves as the public opinion catalyst and the implementing body for statewide action to reduce death and injury on Indiana roadways. The Council provides grant funding, training, coordination and ongoing support to state and local traffic safety advocates.

**David R. Murtaugh**, Executive Director

**Justin K Phillips**, Director, Traffic Safety Division

# TABLE OF CONTENTS

	Page
Quick Facts .....	i
Introduction/Acknowledgements .....	ii
Letter, Executive Director, David R. Murtaugh and and Division Director, Justin K. Phillips .	.iii
Council Members .....	iv
Table of Contents .....	v
List of Tables .....	vi
List of Figures .....	viii
List of Maps .....	ix
Chapter 1 - Problem Identification .....	1
Chapter 2 - General Trends .....	17
Chapter 3 - Collisions .....	31
Work Zone Collisions .....	46
Chapter 4 - Vehicles .....	51
Chapter 5 - Motorcycles .....	71
Chapter 6 - People .....	83
Chapter 7 - Alcohol .....	93
Chapter 8 - Speed .....	103
Chapter 9 - Counties .....	115
Data Sources .....	147
Indiana Standard Crash Report Glossary, Appendix .....	149
Indiana Officer's Standard Crash Report .....	150
Glossary .....	153
Appendix A .....	158

## LIST OF TABLES

Table 1.1 Performance goals and metrics for Indiana's Highway Safety Plan, 2016 . . . . .	3	Table 4.1 Vehicles involved in Indiana collisions, by vehicle type and collision severity, 2010-2014 . . . . .	54
Table 2.1 Total and fatal traffic collisions in Indiana, by month, 2010-2014 . . . . .	20	Table 4.2 Percent of vehicles involved in Indiana collisions, by vehicle type and collision severity, 2010-2014 . . . . .	55
Table 2.2 Total and fatal traffic collisions in Indiana, by day of week, 2010-2014 . . . . .	20	Table 4.3 Passenger vehicles in total and fatal traffic collisions in Indiana, by month, 2010-2014 . . . . .	56
Table 2.3 Total traffic collisions and related injuries in Indiana, 2010-2014 . . . . .	22	Table 4.4 Large trucks in total and fatal traffic collisions in Indiana, by month, 2010-2014 . . . . .	56
Table 2.4 Alcohol-impaired collisions and related injuries in Indiana, 2010-2014 . . . . .	23	Table 4.5 Passenger vehicles in total and fatal traffic collisions in Indiana, by day of week, 2010-2014 . . . . .	57
Table 2.5 Aggressive driving collisions and related injuries in Indiana, 2010-2014 . . . . .	24	Table 4.6 Large trucks in total and fatal traffic collisions in Indiana, by day of week, 2010-2014 . . . . .	57
Table 2.6 Speeding collisions and related injuries in Indiana, 2010-2014 . . . . .	25	Table 4.7 Vehicles involved in fatal and non-fatal collisions, by vehicle type and number of vehicles involved, 2014 . . . . .	58
Table 2.7 Disregarding-a-signal collisions and related injuries in Indiana, 2010-2014 . . . . .	26	Table 4.8 Vehicles involved in Indiana collisions, by vehicle use and collision severity, 2014 . . . . .	58
Table 2.8 Hit-and-run collisions and related injuries in Indiana, 2010-2014 . . . . .	27	Table 4.9 Passenger vehicles involved in Indiana collisions, by (first) object collided with and collision severity, 2014 . . . . .	59
Table 2.9 Cell phone-distracted collisions and related injuries in Indiana, 2010-2014 . . . . .	28	Table 4.10 Large trucks involved in Indiana collisions, by (first) object collided with and collision severity, 2014 . . . . .	60
Table 2.10 Indiana collisions and injuries, by driver action, 2010-2014 . . . . .	29	Table 4.11 School buses involved in Indiana collisions, by (first) object collided with and collision severity, 2014 . . . . .	61
Table 3.1 Indiana traffic collisions, by collision severity, 2010-2014 . . . . .	33	Table 4.12 Passenger vehicles involved in Indiana multi-vehicle collisions, by primary factor, vehicle type, and attributability, 2014 . . . . .	62
Table 3.2 Indiana traffic collisions, by month, 2013-2014 . . . . .	35	Table 4.13 Large trucks involved in Indiana collisions, by primary factor, type of collision, and collision severity, 2014 . . . . .	63
Table 3.3 Indiana traffic collisions, by day of week and time of day, 2014 . . . . .	35	Table 4.14 School buses involved in Indiana collisions, by primary factor, type of collision, and collision severity, 2014 . . . . .	64
Table 3.4 Collisions by month and collision circumstances, 2014 . . . . .	37	Table 5.1 Number of collisions, by motorcycle (MC) involvement, severity, and collision type, 2010-2014 . . . . .	73
Table 3.5 Indiana traffic collisions, by day, hour, and collision circumstances, 2014 . . . . .	38	Table 5.2 Characteristics of motorcycle collisions, by severity of collision, 2014 . . . . .	75
Table 3.6 Indiana collisions, by primary factor and collision severity, 2014 . . . . .	39	Table 5.3 Vehicles involved in Indiana multi-vehicle motorcycle collisions, by vehicle type, primary factor, and vehicle attributability to collision occurrence, 2014 . . . . .	77
Table 3.7 Indiana traffic collisions, by severity and road parameters, 2014 . . . . .	42	Table 5.4 Speeding status of motorcycles and other vehicles involved in Indiana motorcycle collisions, 2010-2014 . . . . .	77
Table 3.8 Indiana traffic collisions, by severity and manner of collision, 2014 . . . . .	43	Table 5.5 Indiana motorcycle rider injuries, 2010-2014 . . . . .	78
Table 3.9 Indiana collisions, by severity and traffic control type, 2014 . . . . .	43		
Table 3.10 Indiana traffic collisions, by severity and environmental conditions, 2014 . . . . .	44		
Table 3.11 Economic cost of traffic collisions in Indiana, by collision type, 2014 . . . . .	45		
Table 3.12 Indiana collisions in work zones, by severity and construction type, 2014 . . . . .	47		
Table 3.13 Indiana work zone collisions, by severity and environmental conditions, 2014 . . . . .	49		
Table 3.14 Indiana work zone collisions by severity and traffic control type, 2014 . . . . .	50		

*List of Tables, continued*

Table 5.6	Individuals involved in Indiana motorcycle collisions, by collision type, vehicle type, driver alcohol impairment, and injury status, 2014 . . . . .	79	Table 7.7	BAC results for drivers involved in Indiana fatal collisions, 2014 . . . . .	98
Table 5.7	Motorcycle operators involved in Indiana fatal and incapacitating collisions, by blood alcohol content (BAC) (g/dL), 2010-2014 . . . . .	79	Table 7.8	Indiana collisions and individual injuries in collisions involving an alcohol-impaired driver, by road class, 2014 . . . . .	98
Table 5.8	Motorcyclists involved in collisions, by rider characteristics and injury status, 2014 . . . . .	80	Table 7.9	Fatality rates in Indiana collisions involving an alcohol-impaired driver, by locality, 2014 . . . . .	99
Table 5.9	Nature and location of injuries to motorcycle operators and passengers in collisions, by reported helmet use, 2014 . . . . .	81	Table 7.10	Drivers in Indiana collisions, by driver age, alcohol impairment, and number of vehicles involved, 2014 . . . . .	100
Table 5.10	Motorcyclist fatalities, by helmet use, nature, and location of injuries, 2014 . . . . .	82	Table 7.11	Drivers involved in Indiana crashes, by vehicle type, injury severity, and alcohol impairment, 2014 . . . . .	101
Table 6.1	Individuals involved in Indiana collisions, by person type and gender, 2010-2014 . . . . .	85	Table 8.1	Indiana collisions, by speed involvement and collision severity, 2010-2014 . . . . .	105
Table 6.2	Individuals involved in Indiana collisions, by person type and injury status, 2010-2014 . . . . .	85	Table 8.2	Indiana collisions, by speed involvement, speed-related criteria, and collision severity, 2010-2014 . . . . .	106
Table 6.3	Drivers involved in Indiana collisions, by license type and injury status, 2014 . . . . .	86	Table 8.3	Individuals involved in Indiana collisions, by speed involvement and injury status, 2010-2014 . . . . .	107
Table 6.4	Drivers involved in Indiana collisions, by license status and driver injury status, 2014 . . . . .	86	Table 8.4	Drivers speeding as a percent of all drivers involved in Indiana collisions, by age group and gender, 2010-2014 . . . . .	109
Table 6.5	Pedalcyclists involved in Indiana collisions, by pedalcyclist action and injury status, 2014 . . . . .	88	Table 8.5	Drivers involved in Indiana collisions, by age, speed involvement, and alcohol impairment, 2014 . . . . .	110
Table 6.6	Pedestrians involved in Indiana collisions, by pedestrian action and injury status, 2014 . . . . .	88	Table 8.6	Individuals in vehicles where driver was reported to be speeding, by restraint use and injury status, 2010-2014 . . . . .	111
Table 6.7	Pedestrians and pedalcyclists involved in Indiana collisions, by time of day and day of week, 2014 . . . . .	89	Table 8.7	Total and speed-related traffic collisions, by month, 2010-2014 . . . . .	111
Table 6.8	Restraint use and injury status among passenger vehicle occupants in Indiana collisions, 2010-2014 . . . . .	90	Table 8.8	Speed-related collisions as a percent of all Indiana collisions, by time of day and day of week, 2014 . . . . .	112
Table 6.9	Vehicle occupants involved in Indiana collisions, by age, restraint use, and injury severity, 2014 . . . . .	90	Table 9.1	Indiana collisions, by severity and county, 2014 . . . . .	118
Table 6.10	Vehicle occupants killed or injured in Indiana collisions, by restraint use, vehicle type, and gender, 2014 . . . . .	91	Table 9.2	Individuals involved in Indiana collisions, by injury status and county, 2014 . . . . .	121
Table 7.1	Indiana collisions and injuries involving alcohol-impaired drivers, 2010-2014 . . . . .	95	Table 9.3	Indiana speed-related collisions, by severity and county, 2014 . . . . .	124
Table 7.2	Alcohol-impaired drivers in Indiana fatal collisions, by driver age, 2010-2014 . . . . .	95	Table 9.4	Indiana collisions involving an alcohol-impaired driver, by severity and county, 2014 . . . . .	127
Table 7.3	Drivers in Indiana collisions, by age, gender, and alcohol impairment, 2014 . . . . .	96	Table 9.5	Vehicle occupants injured in Indiana collisions, by injury status, restraint use, and county, 2014 . . . . .	132
Table 7.4	Alcohol-impaired drivers involved in Indiana collisions and rate per 10,000 licensed, by age and gender, 2014 . . . . .	96	Table 9.6	Young drivers (ages 15-20) involved in Indiana collisions, by injury status and county, 2014 . . . . .	135
Table 7.5	Persons killed in Indiana collisions involving an alcohol-impaired driver, by person type, 2014 . . . . .	97	Table 9.7	Indiana collisions involving motorcycles, by severity and county, 2014 . . . . .	138
Table 7.6	Drivers in Indiana collisions that were tested for alcohol or other substances, by age and injury severity, 2014 . . . . .	97	Table 9.8	County ranks by collision metric, 2014 . . . . .	142

## LIST OF FIGURES

Figure 1.1	Individuals killed in Indiana collisions, 2005-2014	4	Figure 3.11	Indiana work zone collisions, by road class, 2014	48
Figure 1.2	Individuals suffering incapacitating injuries in Indiana collisions, 2005-2014	4	Figure 4.1	Percent of vehicles speeding in Indiana collisions, by vehicle type, 2014	65
Figure 1.3	Fatality rates and geographic distribution of fatalities and non-fatal injuries in Indiana collisions, by Census locale, 2014	5	Figure 4.2	Percent of vehicles with one or more fatalities in Indiana collisions that were speeding, by vehicle type, 2014	65
Figure 1.4	Indiana alcohol-impaired traffic fatalities as a percent of total traffic fatalities, 2010-2014	6	Figure 4.3	Percent of vehicles with an alcohol-impaired driver in Indiana collisions, by vehicle type, 2014	66
Figure 1.5	Indiana alcohol-impaired traffic fatalities as a percent of total Indiana traffic fatalities, comparison of FARS imputed data to Indiana ARIES data as reported, 2005-2014	6	Figure 4.4	Percent of vehicles with one or more fatalities in Indiana collisions that involved an alcohol-impaired driver, by vehicle type, 2014	66
Figure 1.6	Percent of drivers involved in fatal collisions who were legally impaired, by vehicle type, 2014	7	Figure 4.5	Geographic distribution of passenger vehicles in Indiana fatal and non-fatal collisions, by Census locale, 2014	67
Figure 1.7	Comparison of observed safety equipment usage rates by vehicle type, 2005-2015	8	Figure 4.6	Rates of passenger vehicle involvement in fatal collisions, by Census locale and vehicle type, 2014	68
Figure 1.8	Observed seatbelt usage rates on Indiana roads by vehicle type, 2005-2015	9	Figure 4.7	Fatality rates and geographic distribution of large trucks in fatal and non-fatal Indiana collisions, by Census locale, 2014	69
Figure 1.9	Safety equipment usage among vehicle occupants and motorcyclists in collisions, by Census locale, 2014	10	Figure 5.1	Motorcycle (MC) involved injury collisions in Indiana, by hour of the day, 2014	74
Figure 1.10	Drivers in Indiana crashes per 10,000 licensed, by age group, 2014	11	Figure 5.2	Fatal and incapacitating collisions involving motorcycles, by month, 2014	74
Figure 1.11	Young drivers killed in Indiana collisions, 2010-2014	12	Figure 5.3	Fatal and incapacitating collisions involving motorcycles, by weekday, 2014	75
Figure 1.12	Motorcyclists killed in Indiana collisions, 2010-2014	12	Figure 5.4	Vehicles and non-motorists in Indiana collisions involving motorcycles (MC), 2014	76
Figure 1.13	Indiana collisions that involved a speeding driver, 2010-2014	13	Figure 5.5	Percent of vehicles and non-motorists with alcohol-impaired drivers in fatal collisions, by motorcycle (MC) involvement, 2010-2014	78
Figure 1.14	Indiana collisions that involved a driver that disregarded a signal, 2010-2014	13	Figure 5.6	Fatal and incapacitating injuries as percent of total motorcyclist injuries, by helmet use and age group, 2014	81
Figure 1.15	Children ages 14 and under killed in Indiana collisions, 2010-2014	14	Figure 6.1	Pedestrians and pedalcyclists involved in collisions, 2010-2014	87
Figure 1.16	Fatal and incapacitating injuries in Indiana collisions as a percent of all involved, by person type, 2010-2014	15	Figure 6.2	Pedalcyclists and pedestrians involved in Indiana collisions, by age, 2014	87
Figure 2.1	Traffic fatalities per 100M vehicle miles traveled (VMT), 2003-2014	19	Figure 6.3	Passenger vehicle fatalities in Indiana collisions, by ejection status and restraint use, 2014	91
Figure 2.2	Indiana collisions, by collision type, 2010-2014	21	Figure 7.1	Fatalities in Indiana crashes involving an alcohol-impaired driver, by collision locality, 2014	99
Figure 2.3	Indiana collisions, by locale, 2010-2014	30	Figure 7.2	Fatalities and injuries in collisions involving an alcohol-impaired driver, by month, 2014	100
Figure 3.1	Indiana fatal traffic collisions, 2010-2014	33	Figure 8.1	Indiana speed-related collisions, 2010-2014	105
Figure 3.2	Indiana collisions involving pedestrians and pedalcyclists, 2010-2014	34	Figure 8.2	Indiana traffic fatalities in speed-related collisions, 2010-2014	107
Figure 3.3	Indiana traffic collisions, by month and day/night, 2014	36	Figure 8.3	Vehicles speeding as a percent of all vehicles involved in Indiana collisions, by vehicle type, 2012-2014	108
Figure 3.4	Indiana fatal collisions, by month and day/night, 2014	36	Figure 8.4	Injury rates per 1,000 occupants involved in Indiana collisions, by vehicle unit type and speed involvement, 2014	109
Figure 3.5	Indiana traffic collisions, by primary factor and severity, 2014	40	Figure 8.5	Drivers in vehicles that were speeding in Indiana collisions, by alcohol impairment, 2010-2014	110
Figure 3.6	Indiana traffic collisions and fatal and incapacitating injury collision rates, by locale, 2010-2014	41	Figure 8.6	Distribution of total and fatal crashes and rates of speed involvement, by Census locale, 2014	113
Figure 3.7	Indiana traffic collisions and fatal and incapacitating injury collision rates, by road class, 2010-2014	41	Figure 8.7	Distribution of total and fatal crashes and rates of speed involvement, by road type, 2014	113
Figure 3.8	Average economic cost of Indiana traffic collisions, 2014	45			
Figure 3.9	Indiana work zone collisions, 2010-2014	46			
Figure 3.10	Indiana work zone collisions, by locale, 2014	47			

## LIST OF MAPS

Map 9.1	Traffic collisions per 100M vehicle miles traveled, by county, 2014	120	Map 9.8	Young drivers (ages 15-20) involved in collisions per 1,000 licensed young drivers, 2014	137
Map 9.2	Traffic fatalities per 100k population, by county, 2014	123	Map 9.9	Percentage of county collisions that involved a motorcycle, 2014	140
Map 9.3	Percentage of county collisions that were speed-related, 2014	126	Map 9.10	Percentage of county collisions that involved a hit-and-run driver, 2014	141
Map 9.4	Percentage of county collisions that involved an alcohol-impaired driver, 2014	129	Map 9.11	County rank, composite (average, six metrics), 2014	144
Map 9.5	Percentage of county collisions that involved deer, 2014	130	Map 9.12	Estimated costs (\$ millions) of Indiana collisions, by county, 2014	145
Map 9.6	Work zone collisions per 1,000 total county collisions, 2014	131	Map 9.13	Map 9.13. Estimated costs per capita of Indiana collisions, by county, 2014	145
Map 9.7	Percentage of individuals involved in collisions, by county, where victim was not properly restrained, 2014	134			



CHAPTER 1

# PROBLEM IDENTIFICATION



## **PROBLEM IDENTIFICATION, 2014**

The Traffic Safety Division (TSD) of the Indiana Criminal Justice Institute (ICJI), in conjunction with the Indiana Governor's Council on Impaired and Dangerous Driving, annually develops a set of benchmarks as part of the Highway Safety Plan (HSP) to assess the state of traffic safety in Indiana. These benchmarks correspond to priority program areas established by the National Highway Traffic Safety Administration (NHTSA), targeting the occurrence of fatal and injury collisions as they relate to injuries overall, impaired driving, safety equipment usage, young drivers, motorcycle safety, dangerous driving, children, and non-motorist injuries in collisions. Within each area, ICJI establishes specific annual goals and performance measures that relate to the occurrence of collisions and their impact on Indiana. ICJI also works closely with the Indiana Department of Transportation (INDOT) to ensure consistency in goal setting exists between the ICJI HSP, which approaches traffic safety from a policy and law enforcement perspective, and INDOT's Strategic Highway Safety Plan (SHSP), a document that approaches traffic safety from an engineering and transportation planning perspective.

### **Goal Setting by the Indiana Criminal Justice Institute**

Each year, ICJI develops a set of specific short-term and long-term goals to be included in the HSP for each Indiana problem

area, and consistent with NHTSA's priority program areas. To assist with this effort, the Indiana University Public Policy Institute (Institute) prepares a set of baseline measures utilizing the most recent Indiana crash data, as well as historical data, maintained by the Indiana State Police in the Automated Reporting and Information Exchange System (ARIES). A summary of these measures are presented in Table 1.1. Indiana is seeing positive trends (2010 to 2014) related to a number of these metrics. Most notably, the number of Indiana traffic deaths decreased 5 percent in 2014. Impaired driving fatalities, young driver involvement in fatal crashes, and child traffic fatalities are also on the decline. Both speed-related traffic fatalities and motorcyclist fatalities increased annually on average between 2010 and 2014 at 8 percent and 3 percent, respectively.

Additional information is also provided to ICJI in the traffic safety fact sheet series and custom data requests produced annually by the Institute. It is important to note that the most recent ARIES upgrade added a clarification to reporting officers on the definition of incapacitating injuries criteria to include "transported from scene for treatment"; therefore, 2014 increases in incapacitating injuries should be interpreted with caution throughout this publication.

*NOTE: Subsequent sections include a general discussion of goals identified in the FY 2016 Indiana Highway Safety Plan. This document, produced annually by ICJI, uses data from the 2014 traffic safety fact sheets, as well as a number of custom data requests, produced by the Indiana University Public Policy Institute. These publications, including this Crash Book, were produced using the collision dataset current as of March 23, 2015. Discrepancies between figures presented in previous-year Crash Books are due to updates to the collision dataset since the original date of these publications. For more details on specific goals, please refer to the FY 2016 Indiana Highway Safety Plan.*

**Table 1.1. Performance goals and metrics for Indiana's Highway Safety Plan, 2016**

Goals and performance measures	HISTORICAL				MOST RECENT (2014)	Annualized rates of change	
	2010	2011	2012	2013		2013-14	2010-14
<b>Goal: Reduce total fatalities</b>							
Count of fatalities	753	750	781	784	743	-5.2%	-0.3%
Rate per 100K population	11.60	11.51	11.95	11.93	11.26	-5.6%	-0.7%
Rate per 100M vehicle miles traveled (VMT)	1.04	0.97	0.99	0.99	0.94	-5.2%	-2.6%
<i>BY CRASH LOCALITY (where known)</i>							
Count of fatalities in URBAN areas	292	279	283	282	299	6.0%	0.6%
Rate per 10k involved in collisions	13.95	13.10	13.03	12.73	12.72	-0.1%	-2.3%
Count of fatalities in SUBURBAN areas	139	189	220	232	179	-22.8%	6.5%
Rate per 10k involved in collisions	44.35	56.14	64.76	63.32	44.69	-29.4%	0.2%
Count of fatalities in EXURBAN areas	128	108	109	120	110	-8.3%	-3.7%
Rate per 10k involved in collisions	94.84	74.71	74.05	73.06	61.20	-16.2%	-10.4%
Count of fatalities in RURAL areas	123	135	154	141	120	-14.9%	-0.6%
Rate per 10k involved in collisions	79.35	79.92	88.07	75.57	60.81	-19.5%	-6.4%
<b>Goal: Reduce incapacitating injuries</b>							
Count of incapacitating injuries	3,449	3,414	3,816	3,441	5,493	59.6%	12.3%
Rate per 100K population	53.1	52.4	58.4	52.4	83.3	59.0%	11.9%
Rate per 100MVMT	4.77	4.41	4.85	4.34	6.92	59.6%	9.8%
<b>Goal: Reduce alcohol involvement in crashes</b>							
Count of fatalities that involve an impaired driver (any vehicle)	135	145	177	134	101	-24.6%	-7.0%
Percent of all fatalities	17.9%	19.3%	22.7%	17.1%	13.6%	-20.5%	-6.7%
Rate per 100MVMT	0.19	0.19	0.23	0.17	0.13	-24.6%	-9.1%
Count of fatalities that involve an impaired motorcycle operator	25	40	41	15	15	0.0%	-12.0%
<b>Goal: Increase safety belt usage</b>							
Count of unrestrained occupants killed in passenger vehicles	287	260	268	268	265	-1.1%	-2.0%
Observed usage rate for occupants of all passenger vehicles in crashes	90.8%	90.6%	90.6%	90.6%	91.4%	0.8%	0.2%
Observed usage rate for occupants of pickup trucks in crashes	87.7%	87.8%	87.7%	87.5%	88.9%	1.6%	0.4%
<b>Goal: Reduce involvement of young drivers in fatal crashes</b>							
Count of drivers ages 15 to 20 in fatal crashes	124	100	128	102	88	-13.7%	-8.2%
<b>Goal: Reduce motorcyclist fatalities</b>							
Count of motorcycle and moped rider fatalities	110	118	151	119	125	5.0%	3.2%
Count of motorcycle and moped operators involved in fatal crashes	112	121	149	116	125	7.8%	2.8%
Rate per 10K registrations	5.36	5.63	6.65	5.23	5.64	7.8%	1.3%
Count of unhelmeted motorcycle fatalities	92	100	122	100	98	-2.0%	1.6%
<b>Goal: Reduce the incidence of dangerous driving in crashes</b>							
Count of speed-related fatalities	148	151	175	216	201	-6.9%	8.0%
Count of total crashes involving a driver disregarding a signal	4,016	3,957	4,013	4,172	4,198	0.6%	1.1%
<b>Goal: Reduce fatalities and incapacitating injuries for children</b>							
Count of children ages 14 and under killed	29	30	27	35	20	-42.9%	-8.9%
Count of children with incapacitating injuries	196	152	207	193	305	58.0%	11.7%
<b>Goal: Reduce non-motorist fatalities and incapacitating injuries</b>							
Count of pedestrian fatalities	60	63	64	70	76	8.6%	6.1%
Count of pedestrian incapacitating injuries	252	240	222	205	303	47.8%	4.7%
Count of pedalcyclist fatalities	14	13	14	15	13	-13.3%	-1.8%
Count of pedalcyclist incapacitating injuries	82	82	97	82	89	8.5%	2.1%

Sources: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015; US Census Bureau; Federal Highway Administration; Indiana Bureau of Motor Vehicles

**Notes:**

- 1) The most recent ARIES upgrade added a clarification to reporting officers on the definition of incapacitating injuries criteria to include "transported from scene for treatment"; therefore, 2014 increases in incapacitating injuries should be interpreted with caution.
- 2) When considering the reported decreases in 2014 alcohol-impaired crashes and fatalities, it is important to note that these numbers are likely to increase once BAC results reported after the March 23, 2015, extract are analyzed.

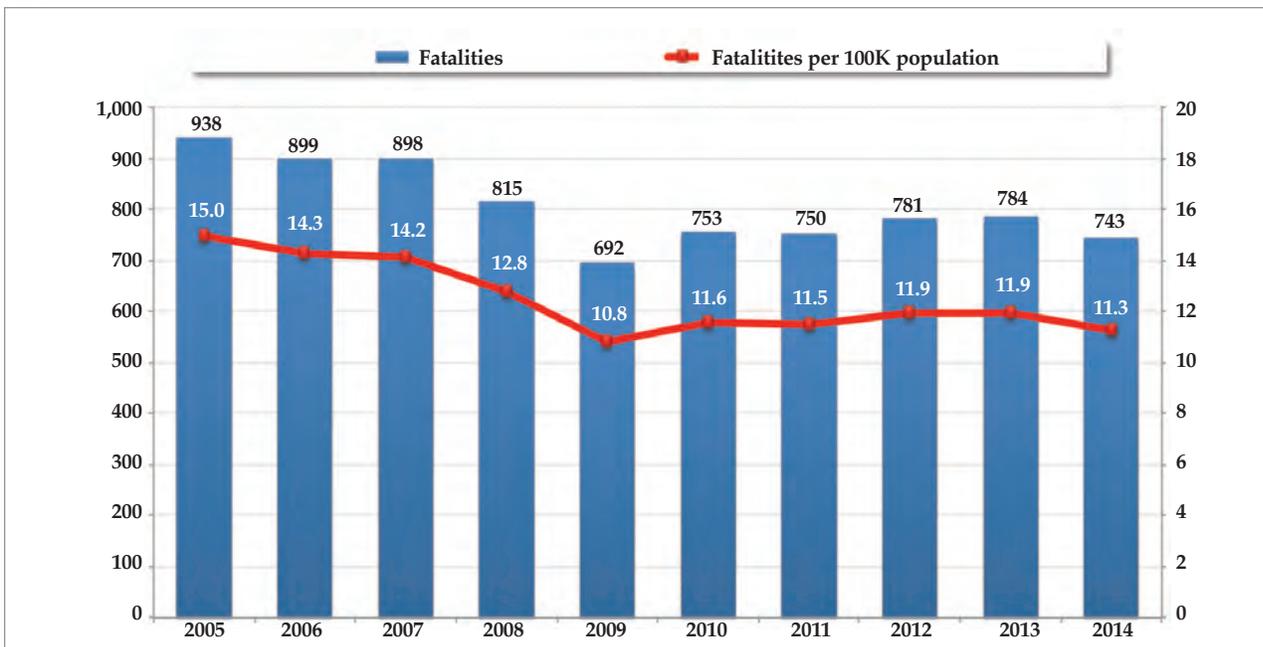
## GOALS: Reducing fatalities and incapacitating injuries

The severity of a traffic collision is influenced by many factors, such as seatbelt usage, the speed at which vehicles are traveling, objects collided with, alcohol involvement, or emergency response times. Crashes in rural areas are more likely to result in fatalities largely due to these circumstances, as crashes are more likely to occur at higher speeds, with fixed objects that

increase the force of impact, and because of greater distance and longer travel times to and from the crash site by emergency care providers.

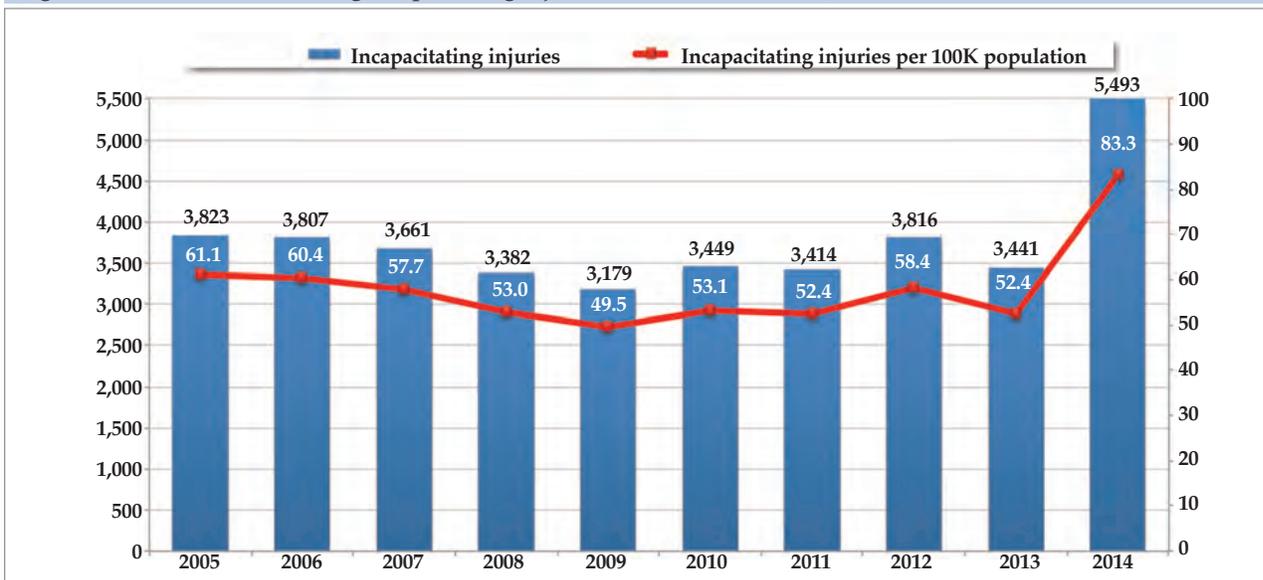
In Indiana, traffic fatality rates have generally decreased over the last 10 years. Indiana's rates of fatalities per 100,000 population reached an historic low in 2009 (10.8) and have leveled off

Figure 1.1. Individuals killed in Indiana collisions, 2005-2014



Sources: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015; U.S. Census Bureau, extracted from STATS Indiana, Indiana Business Research Center

Figure 1.2. Individuals suffering incapacitating injuries in Indiana collisions, 2005-2014



Sources: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015; U.S. Census Bureau, extracted from STATS Indiana, Indiana Business Research Center

Note: The most recent ARIES upgrade added a clarification to reporting officers on the definition of incapacitating injuries criteria to include "transported from scene for treatment"; therefore, 2014 increases in incapacitating injuries should be interpreted with caution.

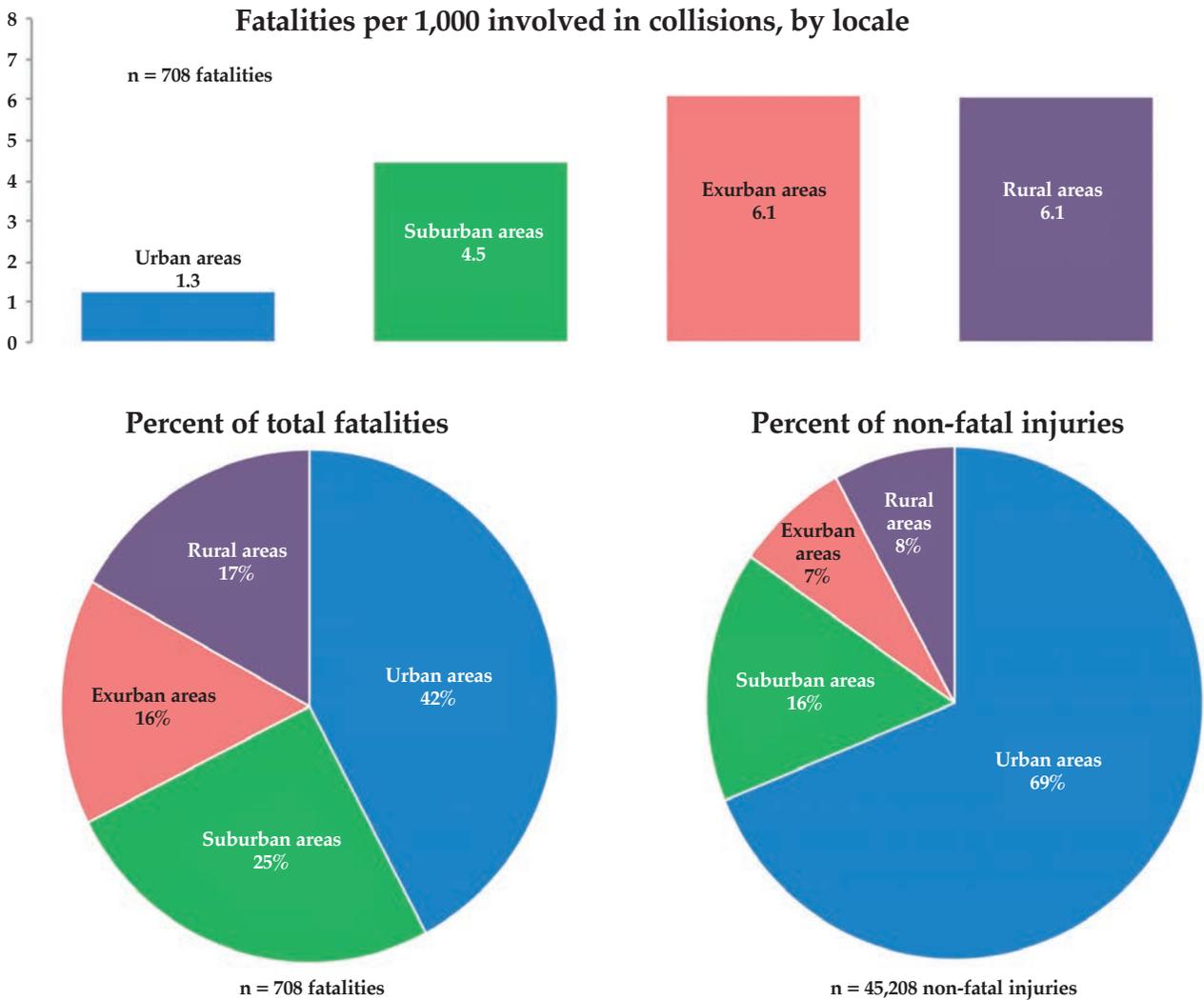
after a slight increase in 2010 (Figure 1.1). The number of traffic fatalities dropped from 784 in 2013 to 743 in 2014, a 5 percent decrease. The Indiana fatality rate per 100k dropped from 11.9 to 11.3 during this same time period.

In terms of incapacitating injuries, the change in ARIES discussed previously related to criteria used by reporting officers in identifying an injury as incapacitating, makes comparisons to previous years difficult. The result of this change can be seen in Figure 1.2. The number of incapacitating injuries occurring in

Indiana traffic collisions remained fairly steady between 2005 and 2013 with the lowest rate of incapacitating injuries per 100,000 population (49.5) occurring in 2009.

Fatalities are more likely to occur in non-urban areas. In 2014, about 17 percent of all traffic fatalities occurred in rural areas, compared to 8 percent of non-fatal injuries (Figure 1.3). The rural rate of fatalities per 1,000 involved in collisions was 6.1 in 2014, compared to 1.3 per 1,000 in urban areas.

Figure 1.3. Fatality rates and geographic distribution of fatalities and non-fatal injuries in Indiana collisions, by Census locale, 2014



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

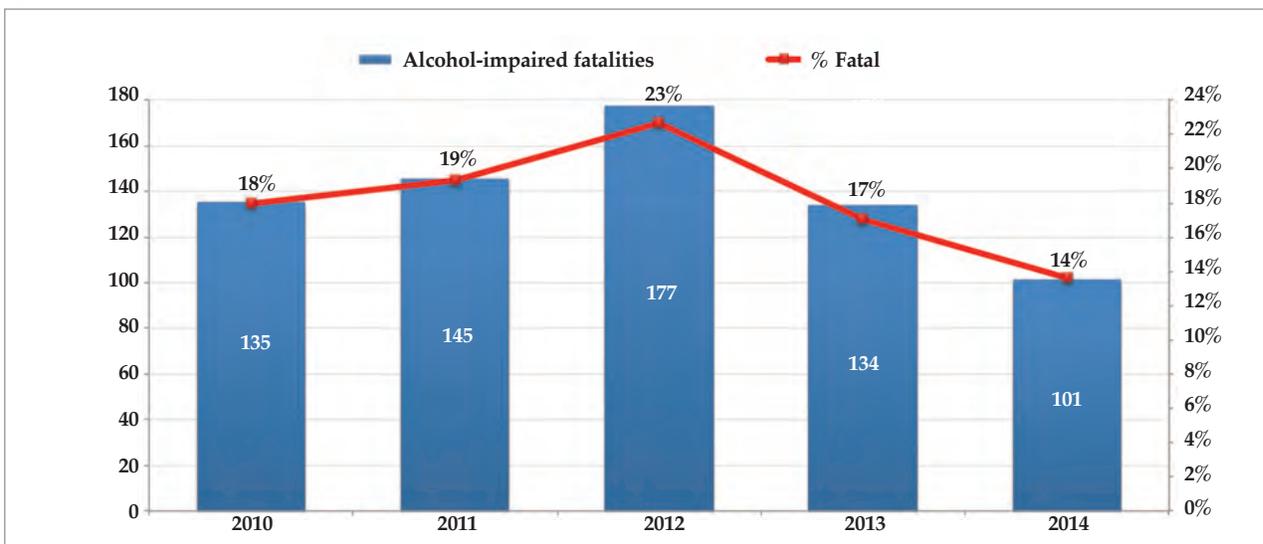
- Notes:
- 1) Non-fatal injuries include incapacitating, non-incapacitating, and possible injuries.
  - 2) Excludes cases where locale could not be determined.
  - 3) See glossary for Census locale definitions.

## GOAL: Reducing impaired driving

Since 2012, Indiana traffic fatalities that involved an impaired driver have been on the decline. As of March 23, 2015, both the number (101) and percent (14 percent) of 2014 Indiana traffic fatalities that involved an impaired driver (blood alcohol content [BAC] = .08 grams per deciliter or higher) were at a five-year

low (Figure 1.4). These 2014 numbers are likely to increase, however, once BAC results reported after the March 23, 2015, extract are analyzed. According to the most recent data available from the NHTSA's Fatality Analysis Reporting System (FARS), 25 percent of all 2013 Indiana traffic fatalities occurred in crashes involving an alcohol-impaired driver, compared to 17 percent in 2013 as reported in ARIES. NHTSA imputations for alcohol-

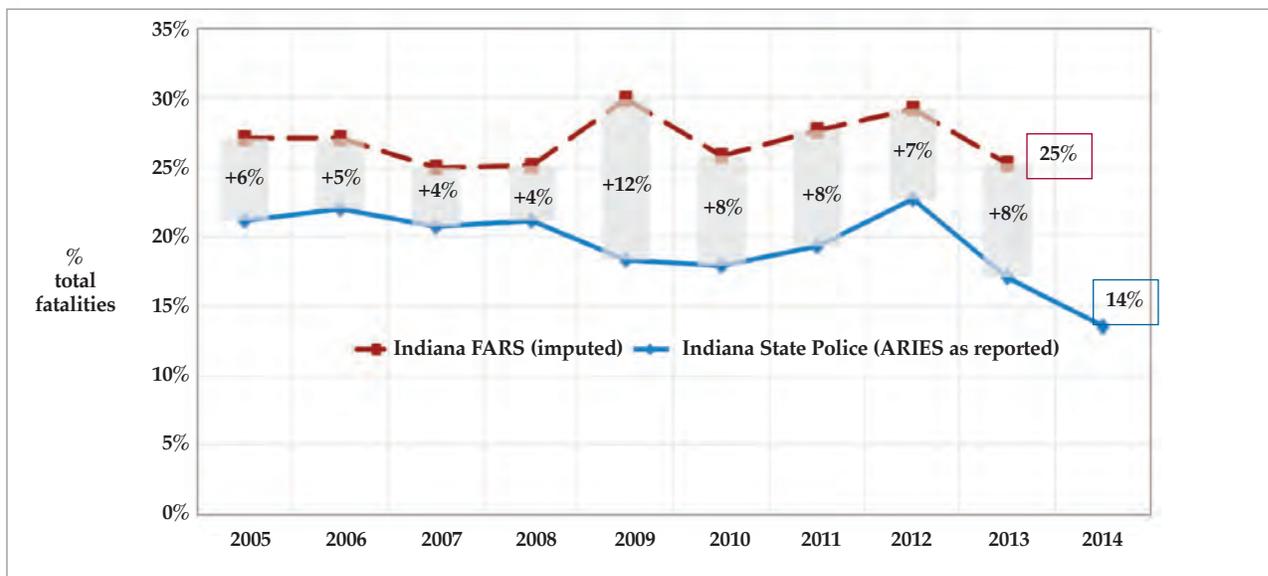
Figure 1.4. Indiana alcohol-impaired traffic fatalities as a percent of total traffic fatalities, 2010-2014



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Note: When considering the reported decreases in 2014 alcohol-impaired crashes and fatalities, it is important to note that these numbers are likely to increase once BAC results reported after the March 23, 2015, extract are analyzed.

Figure 1.5. Indiana alcohol-impaired traffic fatalities as a percent of total Indiana traffic fatalities, comparison of FARS imputed data to Indiana ARIES data as reported, 2005-2014



Sources: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015; Fatality Analysis Reporting System (FARS)

Notes:

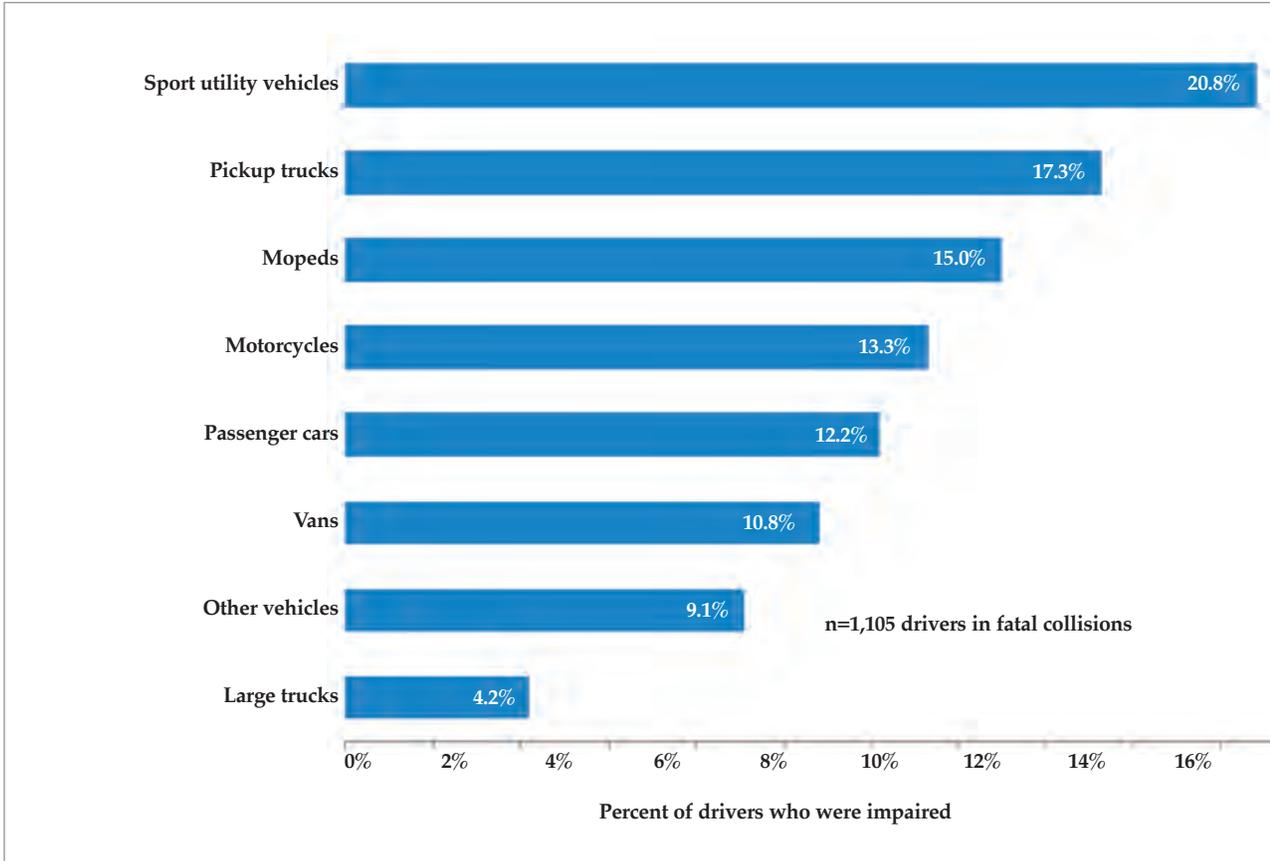
- 1) FARS data are imputed by NHTSA from ARIES data. NHTSA imputations for alcohol-impaired crashes consistently vary from data on alcohol-impaired driving as reported by the Indiana State Police.
- 2) FARS data for 2014 not yet available.
- 3) See glossary for *alcohol-impaired* definition.
- 4) When considering the reported decreases in 2014 alcohol-impaired crashes and fatalities, it is important to note that these numbers are likely to increase once BAC results reported after the March 23, 2015, extract are analyzed.

impaired crashes consistently vary from data on alcohol-impaired driving as reported by Indiana law enforcement officers to the Indiana State Police (See Figure 1.5 for comparison).

Rates of driver alcohol impairment vary by vehicle type. Figure 1.6 shows that, in 2014, sport utility vehicle (SUV) drivers had

the highest rate of impaired driving (21 percent) in fatal crashes across all vehicle types. Seventeen percent of pickup truck drivers and 15 percent of moped operators in fatal collisions were driving impaired. In 2014, 4 percent of large truck drivers in fatal collisions were legally impaired.

Figure 1.6. Percent of drivers involved in fatal collisions who were legally impaired, by vehicle type, 2014



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

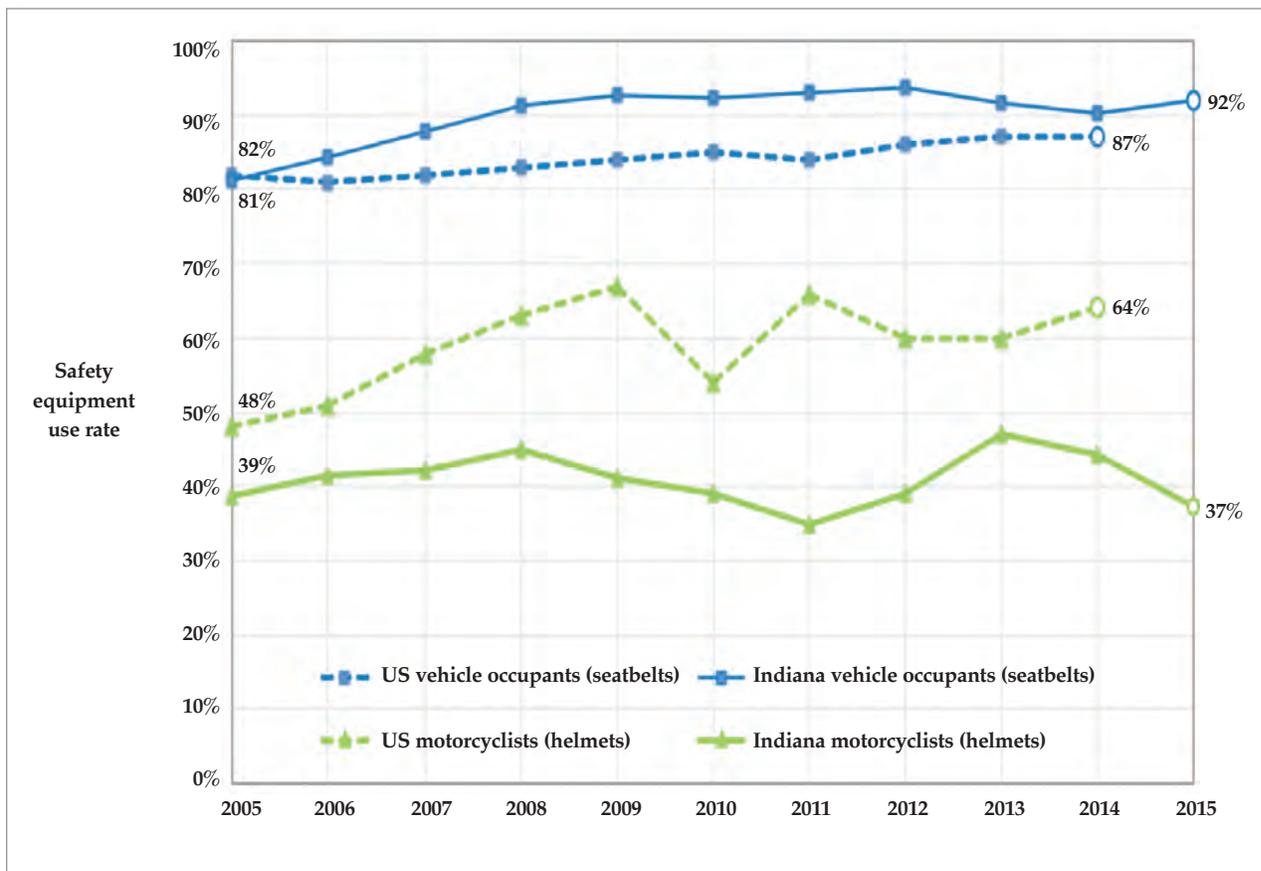
- 1) Other vehicles includes commercial buses, school buses, farm vehicles, and recreational vehicles.
- 2) Non-motorists are excluded.
- 3) See glossary for alcohol-impaired definition.
- 4) When considering the reported decreases in 2014 alcohol-impaired crashes and fatalities, it is important to note that these numbers are likely to increase once BAC results reported after the March 23, 2015 extract are analyzed.

## GOAL: Increasing safety equipment usage

Indiana's observational rate of restraint use among passenger vehicle occupants has increased from 81 percent in 2005 to 92 percent in 2015, 5 percentage points higher than the most recently reported national rate. Observed helmet use among motorcyclists in Indiana, which is not legally mandated by the state, consistently lagged far behind the national rate between 2005 and 2015. In 2015, 37 percent of motorcyclists in Indiana

were wearing helmets, compared to 64 percent nationally in 2014 (most recent data available) (Figure 1.7). According to observational surveys conducted in Indiana, pickup truck restraint use rates, while continually lagging behind rates for passenger cars, have increased dramatically over the past decade, from a rate of 56 percent in 2005 to 83 percent in 2015 (Figure 1.8).

Figure 1.7. Comparison of observed safety equipment usage rates by vehicle type, 2005-2015



Sources:

Seat Belt Use in 2014 - Use Rates in the States and Territories. National Highway Traffic Safety Administration: DOT HS 812 113

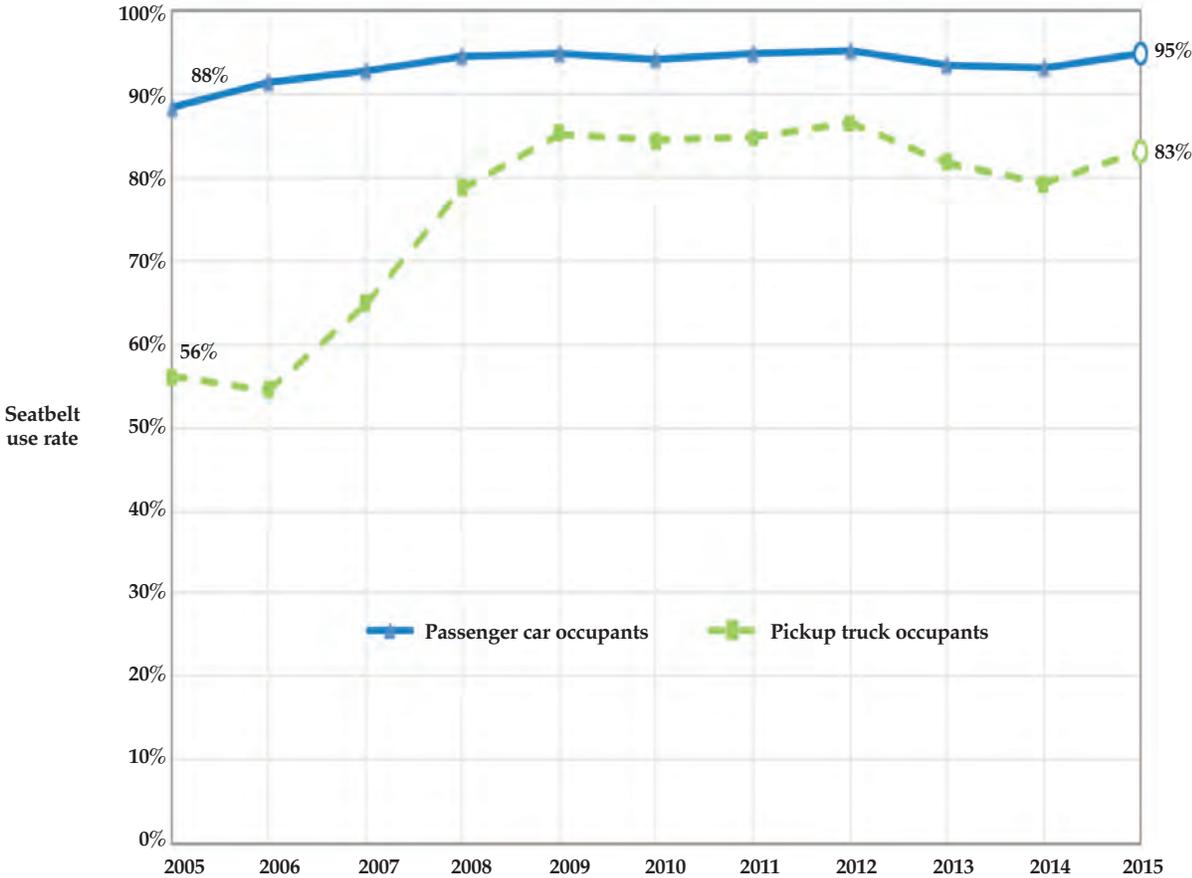
Motorcycle Helmet Use in 2014—Overall Results. National Highway Traffic Safety Administration: DOT HS 812 110

Indiana Safety Belt Observational Survey, June 2015, Survey Results. Center for Road Safety, Purdue University

Notes:

- 1) Helmet use data for Indiana are not available prior to 2005.
- 2) In 2013, the Center for Road Safety adopted a new survey methodology approved by NHTSA. This new approach incorporates changes in the weighting of samples that may contribute to the observed decrease in Indiana seatbelt usage in 2013.
- 3) U.S. seatbelt and helmet usage rates for 2015 not yet available.

Figure 1.8. Observed seatbelt usage rates on Indiana roads by vehicle type, 2005-2015



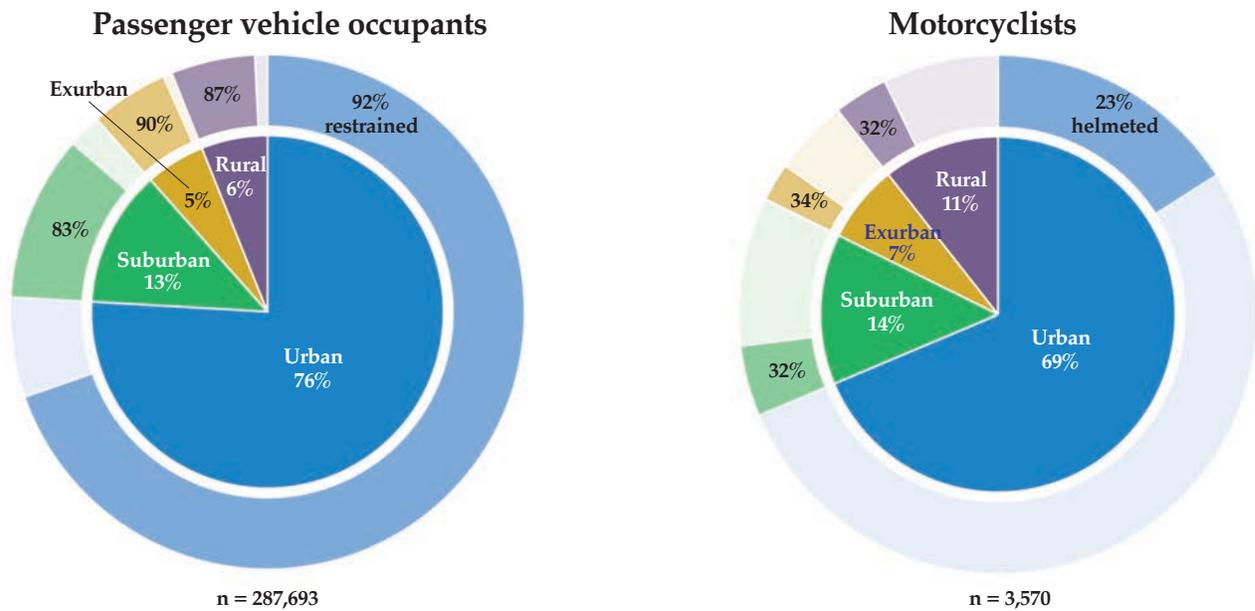
Source: Indiana Safety Belt Observational Survey, June, 2015, Survey Results. Center for Road Safety, Purdue University

Note: In 2013, the Center for Road Safety adopted a new survey methodology approved by NHTSA. This new approach incorporates changes in the weighting of samples that may contribute to the observed decreases in Indiana seatbelt usage in 2013.

Restraint use and helmet use among people involved in collisions varies by Census locale. In 2014 collisions, restraint use among passenger vehicle occupants in more densely populated *urban* areas was 92 percent, compared to 83 percent in *suburban* areas and 87 percent in *rural* areas (Figure 1.9). While helmet usage is far lower than seatbelt usage across all locales,

the reverse is true for motorcyclists. Helmet usage among motorcyclists involved in collisions is greater outside *urban* areas in Indiana. Among motorcyclists in collisions, 23 percent of motorcyclists in *urban* areas were helmeted, compared to 32 percent in *rural* and *suburban* areas and 34 percent in exurban areas.

Figure 1.9. Safety equipment usage among vehicle occupants and motorcyclists in collisions, by Census locale, 2014



Inner pie: Geographic distribution of occupants involved  
 Outer ring: Safety equipment use rates, by locality

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

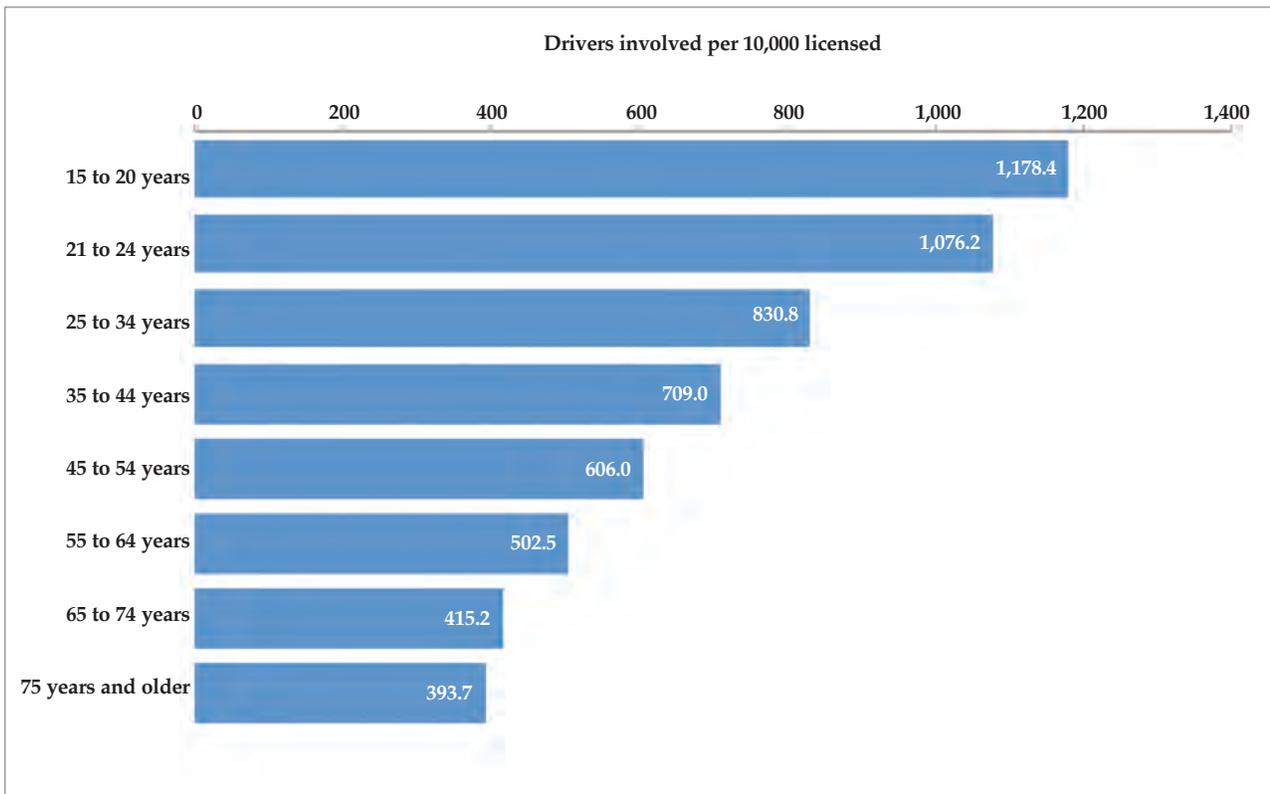
- 1) Passenger vehicles include vehicles reported as a *passenger car, pickup truck, van, or sport utility vehicle.*
- 2) Motorcycles includes *motorcycles and mopeds.*

## GOAL: Reducing young driver involvement in fatal crashes

In 2014, collision involvement rates were higher among young drivers than any other age group (Figure 1.10). Crash rates are lowest among drivers 75 years and older (394 per 10,000

licensed). Drivers, ages 15 to 20 years old, had the highest rate of crash involvement (1,178 per 10,000 licensed). Young drivers are more likely than older drivers to be involved in collisions due to aggressive driving behavior and a lack of experience.

Figure 1.10. Drivers in Indiana crashes per 10,000 licensed, by age group, 2014



Sources: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015; Indiana Bureau of Motor Vehicles

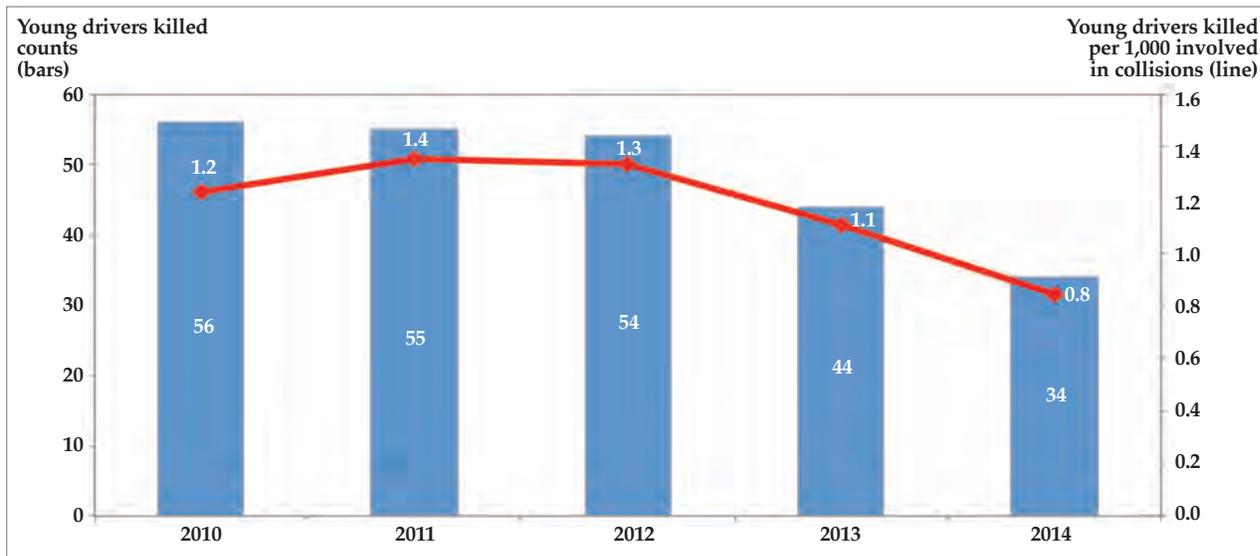
Notes:

- 1) Vehicle types reported as *animal-drawn vehicle*, *pedestrian*, and *pedalcyclist* are excluded. Unknown vehicle types are also excluded.
- 2) Drivers with unknown or invalid age are excluded.

The overall number of young drivers involved in collisions has decreased since the July 2009 implementation of the Indiana Graduated Driver Licensing (GDL) system. The number of young drivers involved in Indiana crashes dropped from 45,441

in 2010 to 40,400 in 2014 (not shown). The number of young drivers killed in collisions also reached a five-year low (34) in 2014 (Figure 1.11).

**Figure 1.11. Young drivers killed in Indiana collisions, 2010-2014**



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

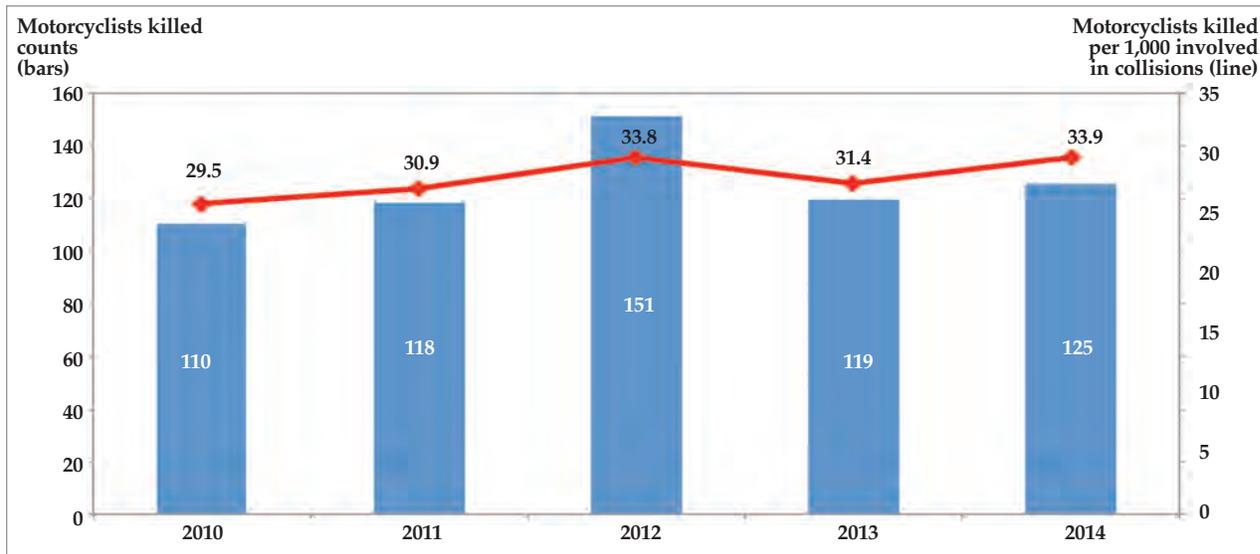
- 1) *Young drivers* include drivers ages 15 to 20 years old.
- 2) *Non-motorists* are excluded.

### GOAL: Reducing motorcyclist fatalities

While 2012 marked a five-year high (151) in the number of Indiana motorcyclist fatalities, this number decreased in both 2013 (119) and 2014 (125) (Figure 1.12). The rate per 1,000 motorcyclists involved in crashes increased from 31 per 1,000 in

2013 to 34 per 1,000 in 2014. Earlier exhibits demonstrate two major contributing factors to Indiana's motorcycle fatality rate: the high rate of impaired motorcycle operators illustrated in Figure 1.6, and the low rate of helmet usage illustrated in Figure 1.7.

**Figure 1.12. Motorcyclists killed in Indiana collisions, 2010-2014**



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

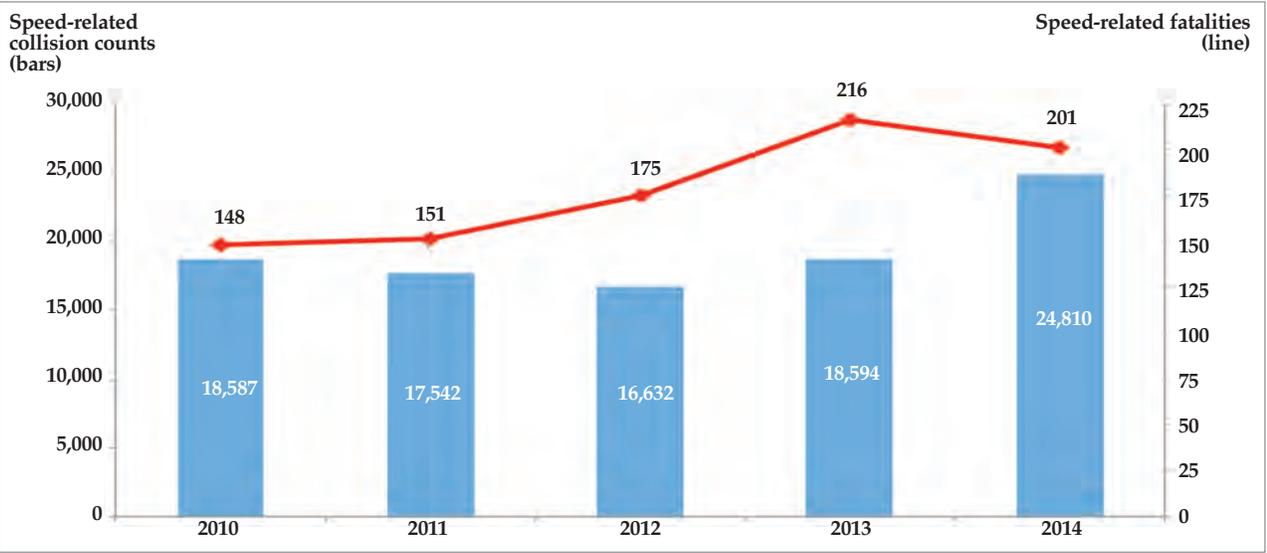
Note: *Motorcyclists* include motorcycle and moped operators and passengers.

**GOAL: Reducing dangerous driving**

The number of Indiana collisions that involved a speeding driver reached a five-year high in 2014, from 18,594 in 2013 to 24,810 (12 percent of all crashes) in 2014 (Figure 1.13). The number of speed-related traffic fatalities dropped from 216 in 2013 to 201 in 2014.

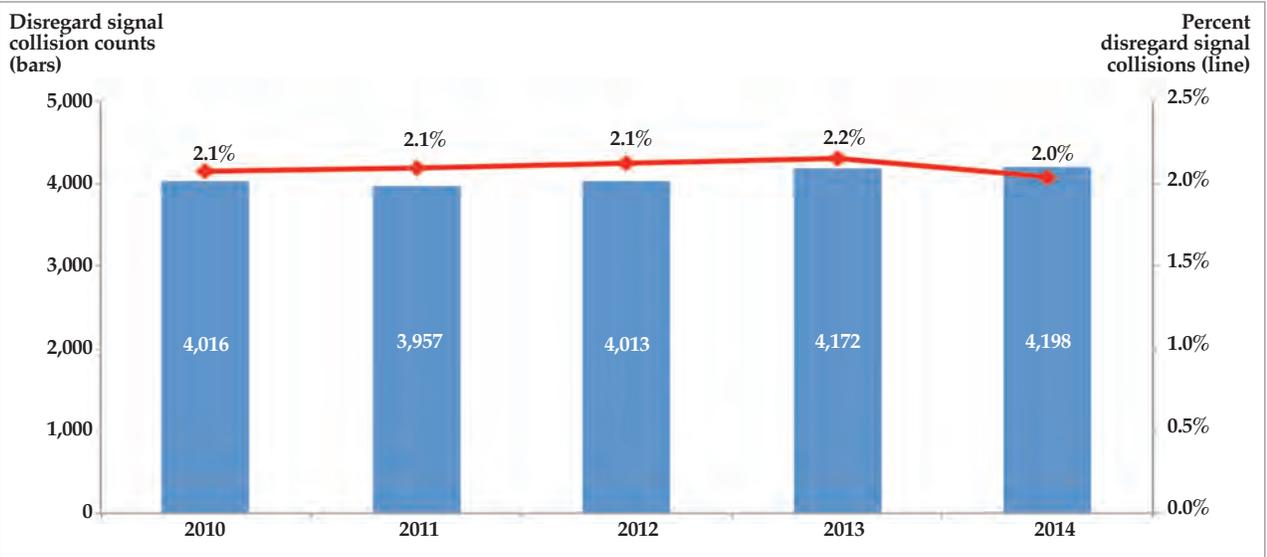
Disregarding traffic signals is also a form of dangerous driving. Both the number and percent of Indiana collisions that involved a driver who disregarded a signal has remained steady since 2010 (Figure 1.14).

Figure 1.13. Indiana collisions that involved a speeding driver, 2010-2014



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Figure 1.14. Indiana collisions that involved a driver that disregarded a signal, 2010-2014



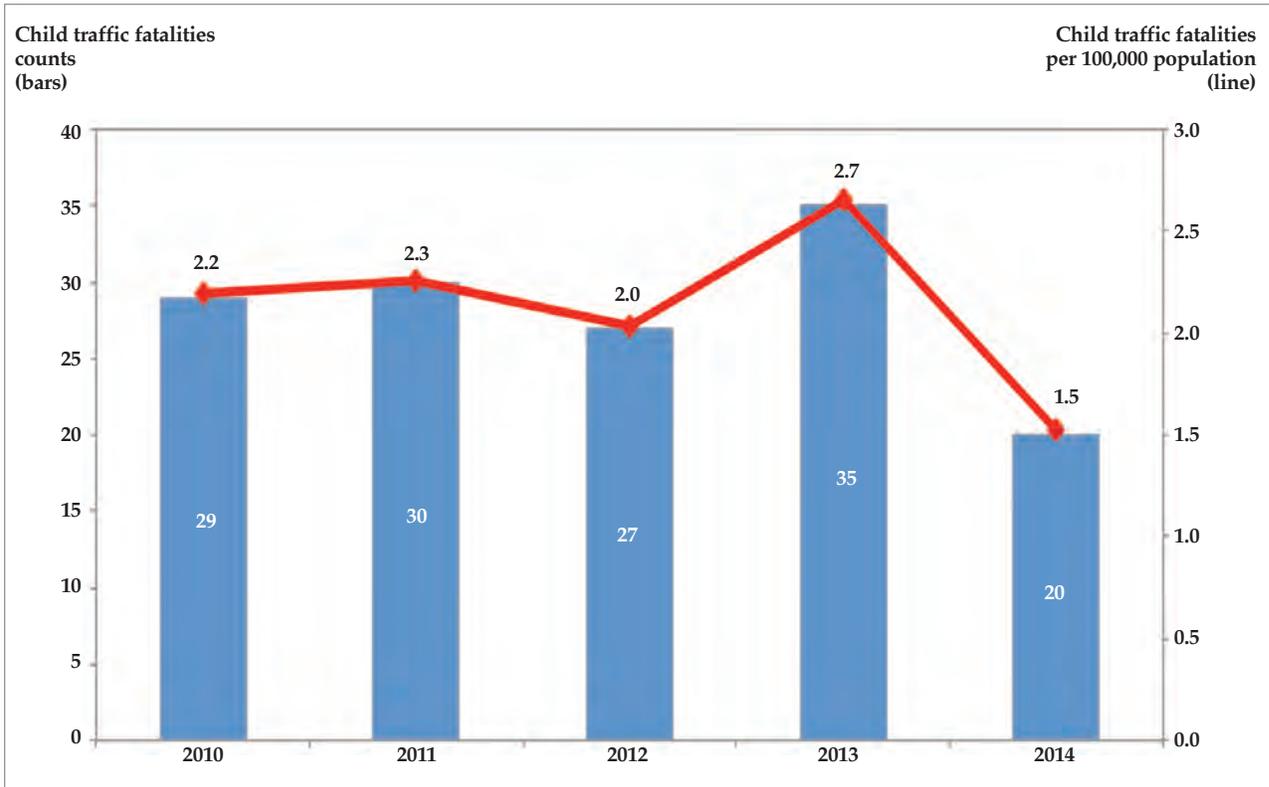
Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

**GOAL: Reducing fatalities and serious injuries among children**

From 2013 to 2014, the number of children killed in Indiana traffic collisions decreased from 35 to 20. The rate per 100,000

population of children (ages 0 to 14) killed in traffic collisions in Indiana also decreased from 2.7 to 1.5 during this same time period.

Figure 1.15. Children ages 14 and under killed in Indiana collisions, 2010-2014



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

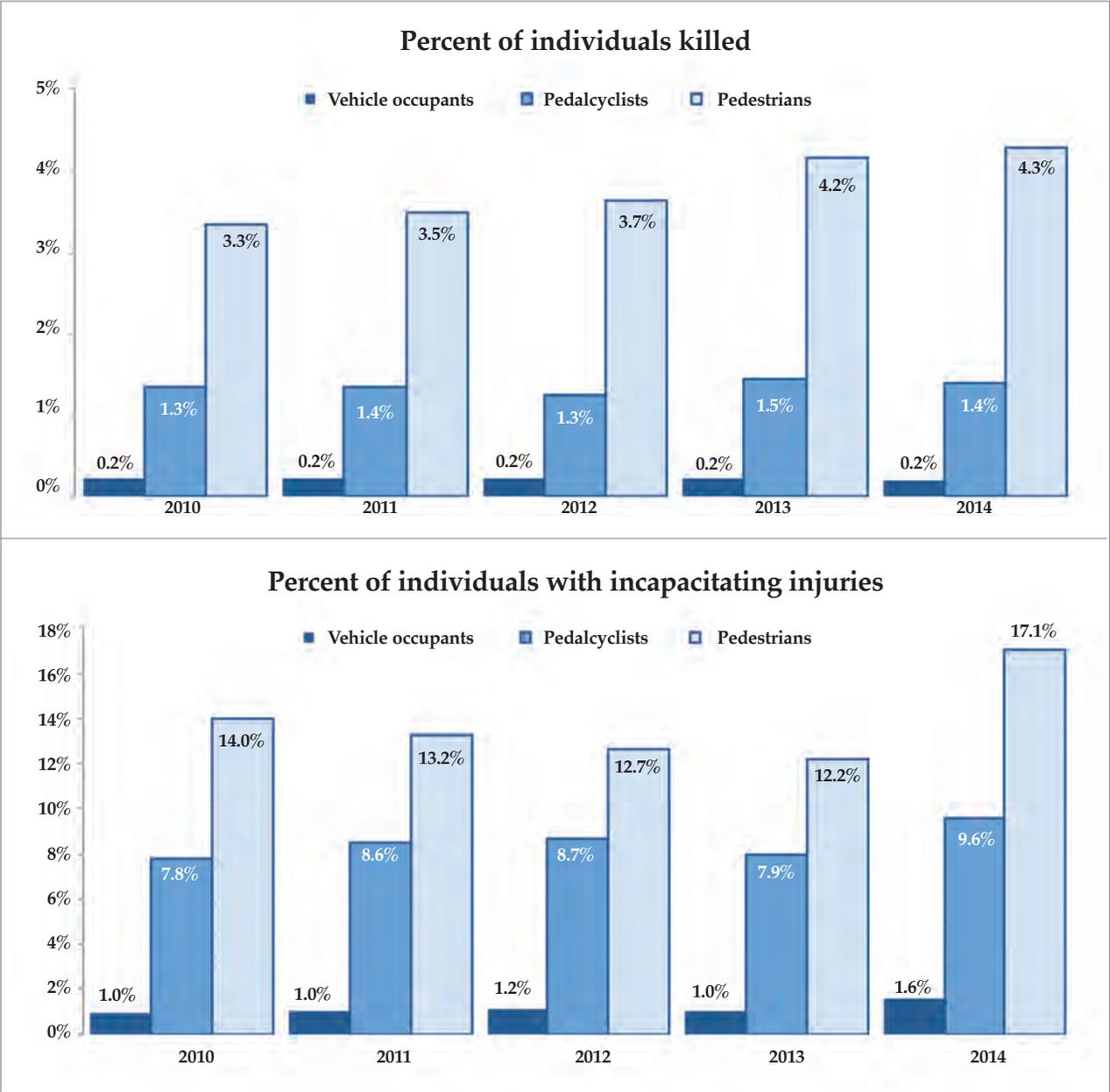
Note: Children include individuals ages 14 and under.

**GOAL: Reducing fatalities and incapacitating injuries among non-motorists**

In 2014, non-motorists (pedestrians and pedalcyclists) represented less than 1 percent of all individuals in traffic collisions, but 11 percent of total Indiana traffic fatalities (not shown). The

percent of all pedestrians in Indiana crashes that were killed increased from 3.3 percent in 2010 to 4.3 percent in 2014 (Figure 1.16). The percent of both pedalcyclists and vehicle occupants killed in collisions remained steady during this same time period.

Figure 1.16. Fatal and incapacitating injuries in Indiana collisions as a percent of all involved, by person type, 2010-2014



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) Animal-drawn vehicle occupants are excluded.
- 2) The most recent ARIES upgrade added a clarification to reporting officers on the definition of incapacitating injuries criteria to include "transported from scene for treatment"; therefore, 2014 increases in incapacitating injuries should be interpreted with caution.



CHAPTER 2

# GENERAL TRENDS



## GENERAL TRENDS, 2014

The rate of traffic fatalities per 100 million vehicle miles traveled (VMT) in Indiana dropped from 0.99 to 0.94 between 2013 and 2014 (Figure 2.1). The Indiana traffic fatality rate per 100 million VMT between 2003 and 2013 was consistently below the national rate.

### Month and Day of Week

Between 2010 and 2014, the winter months of December and January had the highest incidence of total collisions, while warm weather months (June through September) had the highest incidence of fatal collisions (Table 2.1). During this five-year period, the lowest annual incidence of total collisions occurred during the months of March and April, while the lowest annual incidence of fatal collisions occurred during the months of January, February, and March.

When looking at all collisions by day of the week between 2010 and 2014, the highest count of collisions occurred consistently on Fridays, and Sunday had the lowest (Table 2.2). In three of the last five years, the highest counts of fatal collisions occurred on Saturdays (including 2013 and 2014).

### Overview — Types of Collisions

The total number of fatal collisions decreased 1.1 percent from 2013 to 2014. *Aggressive driving* (6,209) increased 23.1 percent and *speeding collisions* (24,810) increased 33.4 percent from 2013 to 2014. Crashes that involved an *alcohol-impaired driver* decreased 4.6 percent (Figure 2.2).

Drivers killed in Indiana traffic collisions have generally made up about 70 percent of all fatalities since 2010 (calculated from Table 2.3). The total number of vehicle occupants (drivers and passengers) and non-motorists killed or injured in Indiana traffic collisions in 2014 (47,100) increased 2.1 percent from 2013 (Table 2.3).

### Alcohol-impaired Collisions

Driver traffic fatalities in Indiana collisions that involved an *alcohol-impaired driver* decreased 29 percent from 107 in 2013 to 76 in 2014 (Table 2.4). About 75 percent of *alcohol-impaired*

traffic fatalities (76 of 101) were drivers, 22 percent were occupants, and 3 percent were non-motorists (calculated from Table 2.4).

### Aggressive Driving and Speeding Collisions

The total number of individuals killed in *aggressive driving* crashes decreased from 64 in 2013 to 53 in 2014, representing a 17 percent decrease (Table 2.5). The number of traffic fatalities that occurred in *speeding collisions* (201) decreased 7 percent in 2014 (Table 2.6). Eight non-motorists were killed in 2014 crashes that involved a speeding driver.

### Disregarding-a-signal Collisions

The number of individuals killed in Indiana traffic collisions that involved a driver who *disregarded a signal* decreased 10 percent (from 20 fatalities in 2013 to 18 fatalities in 2014). Total *disregarding-a signal* collisions (4,198) increased less than one percent in 2014, and increased at an annualized rate of 1.1 percent since 2010 (Table 2.7).

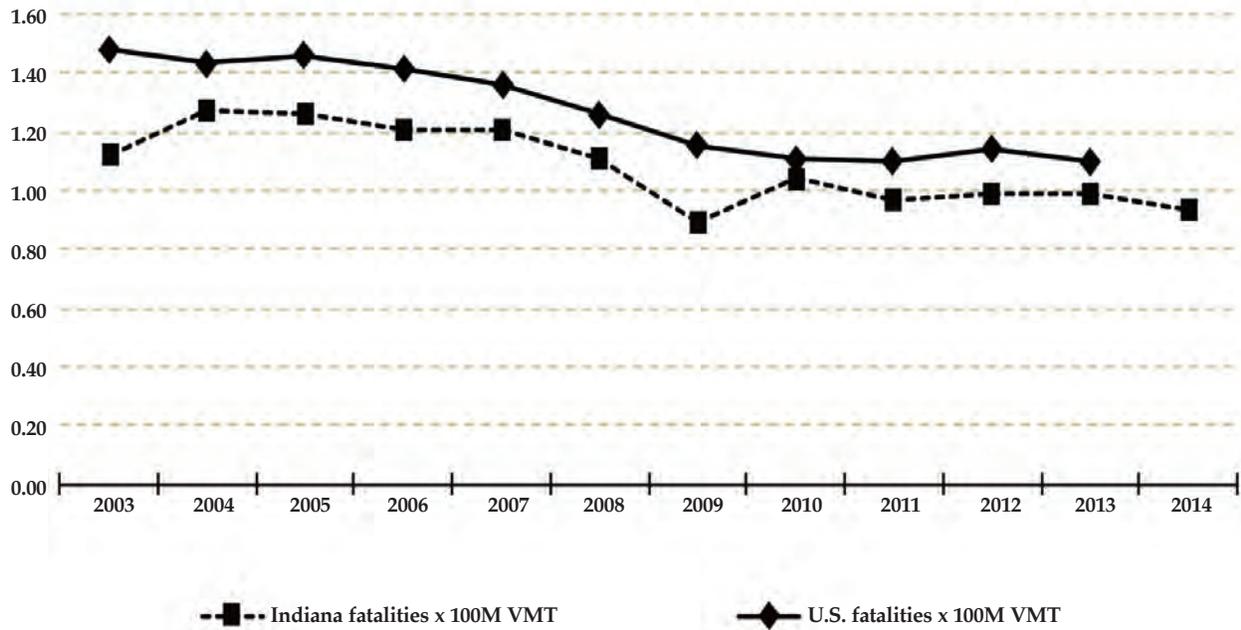
### Hit-and-run Collisions

Collisions that involved a *hit-and-run driver* increased from 23,351 in 2013 to 24,585 in 2014 (Table 2.8). Fatal *hit-and-run* collisions increased 40.7 percent from 27 in 2013 to 38 in 2014. In 2014, 1,071 Indiana collisions involved a driver that was *distracted by a cell phone*, six of which were fatal collisions (Table 2.9).

### Summary of Collisions and Census Locale

*Alcohol-impaired* collisions represented 2.2 percent of all Indiana collisions in 2014, while 13.4 percent of fatal crashes involved an impaired driver (Table 2.10). In 2014, approximately 12 percent of total crashes and 26 percent of fatal crashes involved a driver who was speeding. When considering the geography of Indiana collisions, all locales (*urban, suburban, exurban, and rural*) saw an increase in 2014 collisions (Figure 2.3). Fatal collisions in rural areas decreased 9.5 percent, from 127 in 2013 to 115 in 2014.

Figure 2.1. Traffic fatalities per 100M vehicle miles traveled (VMT), 2003-2014

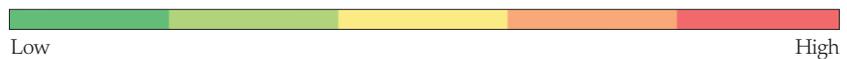


Sources:  
 National Highway Traffic Safety Administration, National Center for Statistics and Analysis, available at <http://www-fars.nhtsa.dot.gov/Main/index.aspx>  
 Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015  
 Indiana Department of Transportation

Notes:  
 1) Indiana VMT for 2014 not yet available; 2013 VMT is used for 2014.  
 2) U.S. fatality numbers for 2014 not yet available.

**Table 2.1. Total and fatal traffic collisions in Indiana, by month, 2010-2014**

Month	Total collisions					Fatal collisions				
	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
Jan	17,072	18,848	17,446	15,487	23,532	45	55	45	46	37
Feb	17,413	16,257	14,177	14,258	19,371	42	42	43	43	35
Mar	13,397	12,755	14,598	15,949	15,514	50	34	58	54	46
Apr	14,183	13,716	13,891	14,038	14,192	61	43	49	65	46
May	15,422	15,149	15,985	16,325	15,904	58	59	64	51	66
Jun	15,475	14,846	15,142	15,267	15,364	64	58	84	51	63
Jul	15,068	14,232	14,457	15,017	14,912	71	76	80	57	74
Aug	14,954	15,010	15,511	15,502	15,636	70	71	70	76	83
Sep	14,954	15,165	14,889	15,765	15,716	56	65	62	78	65
Oct	17,048	17,312	17,656	17,640	18,805	71	65	54	71	69
Nov	17,292	18,452	16,615	18,449	19,336	57	49	50	62	55
Dec	21,101	16,711	18,793	19,508	17,250	55	58	61	56	63
<b>Total</b>	<b>193,379</b>	<b>188,453</b>	<b>189,160</b>	<b>193,205</b>	<b>205,532</b>	<b>700</b>	<b>675</b>	<b>720</b>	<b>710</b>	<b>702</b>
<b>High</b>	<i>Dec</i>	<i>Jan</i>	<i>Dec</i>	<i>Dec</i>	<i>Jan</i>	<i>Jul</i>	<i>Jul</i>	<i>Jun</i>	<i>Sep</i>	<i>Aug</i>
<b>Low</b>	<i>Mar</i>	<i>Mar</i>	<i>Apr</i>	<i>Apr</i>	<i>Apr</i>	<i>Feb</i>	<i>Mar</i>	<i>Feb</i>	<i>Feb</i>	<i>Feb</i>



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Note: Conditional formatting color-scales are illustrated to show months from low to high for the entire 5-year period.

**Table 2.2. Total and fatal traffic collisions in Indiana, by day of week, 2010-2014**

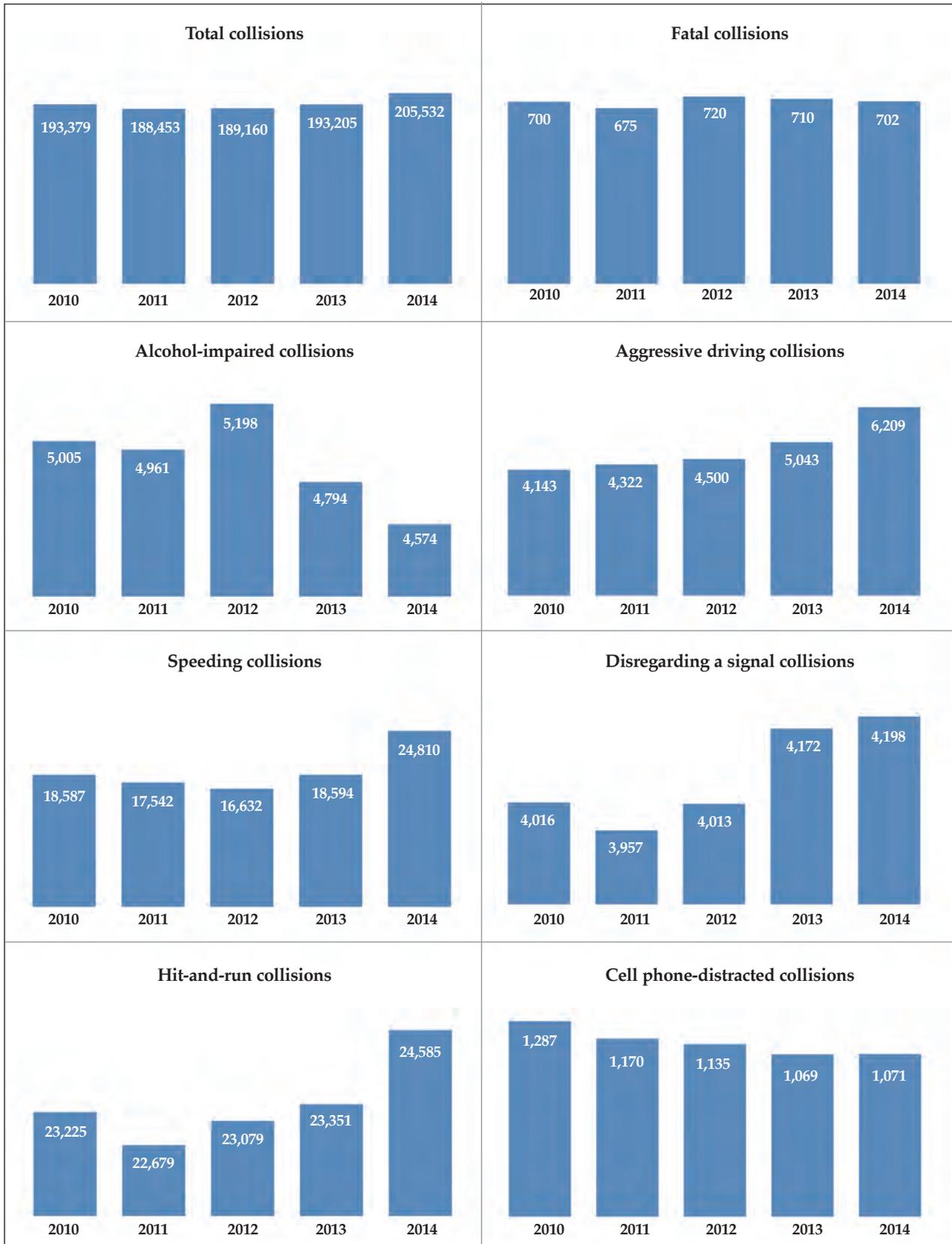
Month	Total collisions					Fatal collisions				
	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
Sun	20,020	18,953	19,218	19,820	20,737	96	96	103	109	103
Mon	27,510	27,122	27,053	27,200	28,339	79	92	88	103	84
Tue	28,551	28,508	26,995	28,406	30,913	96	106	93	105	96
Wed	28,922	26,985	27,584	28,387	30,264	74	87	103	81	93
Thur	29,226	29,257	28,754	29,355	31,601	94	93	106	91	94
Fri	33,551	32,263	33,995	34,018	35,960	129	102	114	93	114
Sat	25,599	25,365	25,561	26,019	27,718	132	99	113	128	118
<b>Total</b>	<b>193,379</b>	<b>188,453</b>	<b>189,160</b>	<b>193,205</b>	<b>205,532</b>	<b>700</b>	<b>675</b>	<b>720</b>	<b>710</b>	<b>702</b>
<b>High</b>	<i>Fri</i>	<i>Fri</i>	<i>Fri</i>	<i>Fri</i>	<i>Fri</i>	<i>Sat</i>	<i>Tue</i>	<i>Fri</i>	<i>Sat</i>	<i>Sat</i>
<b>Low</b>	<i>Sun</i>	<i>Sun</i>	<i>Sun</i>	<i>Sun</i>	<i>Sun</i>	<i>Wed</i>	<i>Wed</i>	<i>Mon</i>	<i>Wed</i>	<i>Mon</i>



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Note: Conditional formatting color-scales are illustrated to show months from low to high for the entire 5-year period.

Figure 2.2. Indiana collisions, by collision type, 2010-2014



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015  
 Note: See glossary for definition of *alcohol-impaired*, *aggressive driving*, and *speeding* collisions.

**Table 2.3. Total traffic collisions and related injuries in Indiana, 2010-2014**

	Collisions, by severity					Annual rate of change		
	Severity	2010	2011	2012	2013	2014	2013-14	2010-14
	Fatal	700	675	720	710	702	-1.1%	0.1%
	Non-fatal injury	34,147	32,789	34,132	32,846	33,823	3.0%	-0.2%
	Property damage	158,532	154,989	154,308	159,649	171,007	7.1%	1.9%
	<b>Total</b>	<b>193,379</b>	<b>188,453</b>	<b>189,160</b>	<b>193,205</b>	<b>205,532</b>	<b>6.4%</b>	<b>1.5%</b>
	<i>Fatal, per 100m VMT</i>	0.97	0.87	0.92	0.89	0.88	-1.1%	-2.2%
	<i>Total, per 100m VMT</i>	267.26	243.30	240.52	243.45	258.98	6.4%	-0.8%
	Injuries, by person type and injury status					Annual rate of change		
Person type	Injury status	2010	2011	2012	2013	2014	2013-14	2010-14
Driver	Fatal	521	524	542	530	517	-2.5%	-0.2%
	Incapacitating	2,273	2,364	2,601	2,389	3,731	56.2%	13.2%
	Non-incapacitating	30,398	28,855	30,079	28,991	28,594	-1.4%	-1.5%
	<b>Subtotal</b>	<b>33,192</b>	<b>31,743</b>	<b>33,222</b>	<b>31,910</b>	<b>32,842</b>	<b>2.9%</b>	<b>-0.3%</b>
Injured occupant	Fatal	157	146	160	167	137	-18.0%	-3.3%
	Incapacitating	840	724	894	763	1,363	78.6%	12.9%
	Non-incapacitating	11,750	11,012	11,262	10,960	10,476	-4.4%	-2.8%
	<b>Subtotal</b>	<b>12,747</b>	<b>11,882</b>	<b>12,316</b>	<b>11,890</b>	<b>11,976</b>	<b>0.7%</b>	<b>-1.5%</b>
Non-motorist	Fatal	75	80	79	87	89	2.3%	4.4%
	Incapacitating	336	326	321	289	399	38.1%	4.4%
	Non-incapacitating	2,091	2,039	2,064	1,946	1,794	-7.8%	-3.8%
	<b>Subtotal</b>	<b>2,502</b>	<b>2,445</b>	<b>2,464</b>	<b>2,322</b>	<b>2,282</b>	<b>-1.7%</b>	<b>-2.3%</b>
All	Fatal	753	750	781	784	743	-5.2%	-0.3%
	Incapacitating	3,449	3,414	3,816	3,441	5,493	59.6%	12.3%
	Non-incapacitating	44,239	41,906	43,405	41,897	40,864	-2.5%	-2.0%
	<b>Total</b>	<b>48,441</b>	<b>46,070</b>	<b>48,002</b>	<b>46,122</b>	<b>47,100</b>	<b>2.1%</b>	<b>-0.7%</b>

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) *Non-fatal injury collisions* are those with no fatalities and at least one injury reported as *incapacitating, non-incapacitating, or possible*.
- 2) *Non-incapacitating* includes injuries reported as *non-incapacitating and possible*.
- 3) *Non-motorist* includes *pedestrians, pedalcyclists, and animal-drawn vehicle occupants*.

Table 2.4. Alcohol-impaired collisions and related injuries in Indiana, 2010-2014

	Alcohol-impaired collisions, by severity					Annual rate of change		
	Severity	2010	2011	2012	2013	2014	2013-14	2010-14
	Fatal	130	138	167	122	94	-23.0%	-7.8%
	Non-fatal injury	1,527	1,445	1,528	1,403	1,290	-8.1%	-4.1%
	Property damage	3,348	3,378	3,503	3,269	3,190	-2.4%	-1.2%
	<b>Total</b>	<b>5,005</b>	<b>4,961</b>	<b>5,198</b>	<b>4,794</b>	<b>4,574</b>	<b>-4.6%</b>	<b>-2.2%</b>
	<i>Fatal, per 100m VMT</i>	<i>0.18</i>	<i>0.18</i>	<i>0.21</i>	<i>0.15</i>	<i>0.12</i>	<i>-23.0%</i>	<i>-9.9%</i>
	<i>Total, per 100m VMT</i>	<i>6.92</i>	<i>6.40</i>	<i>6.61</i>	<i>6.04</i>	<i>5.76</i>	<i>-4.6%</i>	<i>-4.5%</i>
	Injuries in alcohol-impaired collisions, by person type and injury status					Annual rate of change		
Person type	Injury status	2010	2011	2012	2013	2014	2013-14	2010-14
Driver	Fatal	104	122	148	107	76	-29.0%	-7.5%
	Incapacitating	180	159	191	161	228	41.6%	6.1%
	Non-incapacitating	1,372	1,325	1,363	1,279	1,096	-14.3%	-5.5%
	<b>Subtotal</b>	<b>1,656</b>	<b>1,606</b>	<b>1,702</b>	<b>1,547</b>	<b>1,400</b>	<b>-9.5%</b>	<b>-4.1%</b>
Injured occupant	Fatal	23	21	23	25	22	-12.0%	-1.1%
	Incapacitating	68	53	56	71	76	7.0%	2.8%
	Non-incapacitating	450	438	440	427	364	-14.8%	-5.2%
	<b>Subtotal</b>	<b>541</b>	<b>512</b>	<b>519</b>	<b>523</b>	<b>462</b>	<b>-11.7%</b>	<b>-3.9%</b>
Non-motorist	Fatal	8	2	6	2	3	50.0%	-21.7%
	Incapacitating	17	15	6	15	11	-26.7%	-10.3%
	Non-incapacitating	27	28	27	28	19	-32.1%	-8.4%
	<b>Subtotal</b>	<b>52</b>	<b>45</b>	<b>39</b>	<b>45</b>	<b>33</b>	<b>-26.7%</b>	<b>-10.7%</b>
All	Fatal	135	145	177	134	101	-24.6%	-7.0%
	Incapacitating	265	227	253	247	315	27.5%	4.4%
	Non-incapacitating	1,849	1,791	1,830	1,734	1,479	-14.7%	-5.4%
	<b>Total</b>	<b>2,249</b>	<b>2,163</b>	<b>2,260</b>	<b>2,115</b>	<b>1,895</b>	<b>-10.4%</b>	<b>-4.2%</b>

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) See glossary for definition of *alcohol-impaired*.
- 2) *Non-fatal injury* collisions are those with no fatalities and at least one injury reported as *incapacitating, non-incapacitating, or possible*.
- 3) *Non-incapacitating* includes injuries reported as *non-incapacitating* and *possible*.
- 3) *Non-motorist* includes *pedestrians, pedalcyclists, and animal-drawn vehicle occupants*.

Table 2.5. Aggressive driving collisions and related injuries in Indiana, 2010-2014

	Aggressive driving collisions, by severity						Annual rate of change	
	Severity	2010	2011	2012	2013	2014	2013-14	2010-14
	Fatal	22	30	33	55	46	-16.4%	20.2%
	Non-fatal injury	1,125	1,121	1,216	1,342	1,578	17.6%	8.8%
	Property damage	2,996	3,171	3,251	3,646	4,585	25.8%	11.2%
	<b>Total</b>	<b>4,143</b>	<b>4,322</b>	<b>4,500</b>	<b>5,043</b>	<b>6,209</b>	<b>23.1%</b>	<b>10.6%</b>
	<i>Fatal, per 100m VMT</i>	<i>0.03</i>	<i>0.04</i>	<i>0.04</i>	<i>0.07</i>	<i>0.06</i>	<i>-16.4%</i>	<i>17.5%</i>
	<i>Total, per 100m VMT</i>	<i>5.73</i>	<i>5.58</i>	<i>5.72</i>	<i>6.35</i>	<i>7.82</i>	<i>23.1%</i>	<i>8.1%</i>
	Injuries in aggressive driving collisions, by person type and injury status						Annual rate of change	
Person type	Injury status	2010	2011	2012	2013	2014	2013-14	2010-14
Driver	Fatal	15	28	24	38	39	2.6%	27.0%
	Incapacitating	96	108	144	109	216	98.2%	22.5%
	Non-incapacitating	1,138	1,132	1,208	1,369	1,499	9.5%	7.1%
	<b>Subtotal</b>	<b>1,249</b>	<b>1,268</b>	<b>1,376</b>	<b>1,516</b>	<b>1,754</b>	<b>15.7%</b>	<b>8.9%</b>
Injured occupant	Fatal	6	11	9	25	11	-56.0%	16.4%
	Incapacitating	48	39	58	34	104	205.9%	21.3%
	Non-incapacitating	540	449	481	587	594	1.2%	2.4%
	<b>Subtotal</b>	<b>594</b>	<b>499</b>	<b>548</b>	<b>646</b>	<b>709</b>	<b>9.8%</b>	<b>4.5%</b>
Non-motorist	Fatal	2	0	3	1	3	200.0%	na
	Incapacitating	1	5	5	4	5	25.0%	49.5%
	Non-incapacitating	32	26	27	26	26	0.0%	-5.1%
	<b>Subtotal</b>	<b>35</b>	<b>31</b>	<b>35</b>	<b>31</b>	<b>34</b>	<b>9.7%</b>	<b>-0.7%</b>
All	Fatal	23	39	36	64	53	-17.2%	23.2%
	Incapacitating	145	152	207	147	325	121.1%	22.4%
	Non-incapacitating	1,710	1,607	1,716	1,982	2,119	6.9%	5.5%
	<b>Total</b>	<b>1,878</b>	<b>1,798</b>	<b>1,959</b>	<b>2,193</b>	<b>2,497</b>	<b>13.9%</b>	<b>7.4%</b>

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) See glossary for definition of *aggressive driving*.
- 2) *Non-fatal injury* collisions are those with no fatalities and at least one injury reported as *incapacitating, non-incapacitating, or possible*.
- 3) *Non-incapacitating* includes injuries reported as *non-incapacitating* and *possible*.
- 4) *Non-motorist* includes *pedestrians, pedalcyclists, and animal-drawn vehicle occupants*.

Table 2.6. Speeding collisions and related injuries in Indiana, 2010-2014

	Speeding collisions, by severity						Annual rate of change	
	Severity	2010	2011	2012	2013	2014	2013-14	2010-14
	Fatal	139	132	163	185	184	-0.5%	7.3%
	Non-fatal injury	4,154	4,111	4,059	4,262	5,121	20.2%	5.4%
	Property damage	14,294	13,299	12,410	14,147	19,505	37.9%	8.1%
	<b>Total</b>	<b>18,587</b>	<b>17,542</b>	<b>16,632</b>	<b>18,594</b>	<b>24,810</b>	<b>33.4%</b>	<b>7.5%</b>
	<i>Fatal, per 100m VMT</i>	<i>0.19</i>	<i>0.17</i>	<i>0.21</i>	<i>0.23</i>	<i>0.23</i>	<i>-0.5%</i>	<i>4.8%</i>
	<i>Total, per 100m VMT</i>	<i>25.69</i>	<i>22.65</i>	<i>21.15</i>	<i>23.43</i>	<i>31.26</i>	<i>33.4%</i>	<i>5.0%</i>
	Injuries in speeding collisions, by person type and injury status						Annual rate of change	
Person type	Injury status	2010	2011	2012	2013	2014	2013-14	2010-14
Driver	Fatal	100	106	131	147	149	1.4%	10.5%
	Incapacitating	382	409	435	410	707	72.4%	16.6%
	Non-incapacitating	3,752	3,736	3,609	3,813	4,357	14.3%	3.8%
	<b>Subtotal</b>	<b>4,234</b>	<b>4,251</b>	<b>4,175</b>	<b>4,370</b>	<b>5,213</b>	<b>19.3%</b>	<b>5.3%</b>
Injured occupant	Fatal	42	38	40	65	44	-32.3%	1.2%
	Incapacitating	174	150	192	157	321	104.5%	16.5%
	Non-incapacitating	1,590	1,461	1,457	1,583	1,710	8.0%	1.8%
	<b>Subtotal</b>	<b>1,806</b>	<b>1,649</b>	<b>1,689</b>	<b>1,805</b>	<b>2,075</b>	<b>15.0%</b>	<b>3.5%</b>
Non-motorist	Fatal	6	7	4	4	8	100.0%	7.5%
	Incapacitating	15	19	19	19	24	26.3%	12.5%
	Non-incapacitating	87	85	81	90	85	-5.6%	-0.6%
	<b>Subtotal</b>	<b>108</b>	<b>111</b>	<b>104</b>	<b>113</b>	<b>117</b>	<b>3.5%</b>	<b>2.0%</b>
All	Fatal	148	151	175	216	201	-6.9%	8.0%
	Incapacitating	571	578	646	586	1,052	79.5%	16.5%
	Non-incapacitating	5,429	5,282	5,147	5,486	6,152	12.1%	3.2%
	<b>Total</b>	<b>6,148</b>	<b>6,011</b>	<b>5,968</b>	<b>6,288</b>	<b>7,405</b>	<b>17.8%</b>	<b>4.8%</b>

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) See glossary for definition of *speeding*.
- 2) *Non-fatal injury* collisions are those with no fatalities and at least one injury reported as *incapacitating*, *non-incapacitating*, or *possible*.
- 3) *Non-incapacitating* includes injuries reported as *non-incapacitating* and *possible*.
- 4) *Non-motorist* includes *pedestrians*, *pedalcyclists*, and *animal-drawn vehicle occupants*.

**Table 2.7. Disregarding-a-signal collisions and related injuries in Indiana, 2010-2014**

		Disregarded traffic signal collisions, by severity					Annual rate of change	
Severity		2010	2011	2012	2013	2014	2013-14	2010-14
Fatal		15	15	22	19	16	-15.8%	1.6%
Non-fatal injury		1,521	1,452	1,578	1,523	1,541	1.2%	0.3%
Property damage		2,480	2,490	2,413	2,630	2,641	0.4%	1.6%
<b>Total</b>		<b>4,016</b>	<b>3,957</b>	<b>4,013</b>	<b>4,172</b>	<b>4,198</b>	<b>0.6%</b>	<b>1.1%</b>
<i>Fatal, per 100m VMT</i>		<i>0.02</i>	<i>0.02</i>	<i>0.03</i>	<i>0.02</i>	<i>0.02</i>	<i>-15.8%</i>	<i>-0.7%</i>
<i>Total, per 100m VMT</i>		<i>5.55</i>	<i>5.11</i>	<i>5.10</i>	<i>5.26</i>	<i>5.29</i>	<i>0.6%</i>	<i>-1.2%</i>
		Injuries in disregarded traffic signal collisions, by person type and injury status					Annual rate of change	
Person type	Injury status	2010	2011	2012	2013	2014	2013-14	2010-14
Driver	Fatal	12	12	14	15	14	-6.7%	3.9%
	Incapacitating	82	107	124	89	152	70.8%	16.7%
	Non-incapacitating	1,663	1,533	1,718	1,656	1,606	-3.0%	-0.9%
	<b>Subtotal</b>	<b>1,757</b>	<b>1,652</b>	<b>1,856</b>	<b>1,760</b>	<b>1,772</b>	<b>0.7%</b>	<b>0.2%</b>
Injured occupant	Fatal	3	5	8	5	4	-20.0%	7.5%
	Incapacitating	46	35	30	40	79	97.5%	14.5%
	Non-incapacitating	670	591	700	724	598	-17.4%	-2.8%
	<b>Subtotal</b>	<b>719</b>	<b>631</b>	<b>738</b>	<b>769</b>	<b>681</b>	<b>-11.4%</b>	<b>-1.3%</b>
Non-motorist	Fatal	0	0	1	0	0	--	--
	Incapacitating	0	0	3	2	0	-100.0%	--
	Non-incapacitating	11	15	18	10	9	-10.0%	-4.9%
	<b>Subtotal</b>	<b>11</b>	<b>15</b>	<b>22</b>	<b>12</b>	<b>9</b>	<b>-25.0%</b>	<b>-4.9%</b>
All	Fatal	15	17	23	20	18	-10.0%	4.7%
	Incapacitating	128	142	157	131	231	76.3%	15.9%
	Non-incapacitating	2,344	2,139	2,436	2,390	2,213	-7.4%	-1.4%
	<b>Total</b>	<b>2,487</b>	<b>2,298</b>	<b>2,616</b>	<b>2,541</b>	<b>2,462</b>	<b>-3.1%</b>	<b>-0.3%</b>

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) See glossary for definition of *disregarding a signal*.
- 2) *Non-fatal injury* collisions are those with no fatalities and at least one injury reported as *incapacitating, non-incapacitating, or possible*.
- 3) *Non-incapacitating* includes injuries reported as *non-incapacitating* and *possible*.
- 4) *Non-motorist* includes *pedestrians, pedalcyclists, and animal-drawn vehicle occupants*.

Table 2.8 Hit-and-run collisions and related injuries in Indiana, 2010-2014

	Hit-and-run collisions, by severity					Annual rate of change		
	Severity	2010	2011	2012	2013	2014	2013-14	2010-14
	Fatal	26	27	33	27	38	40.7%	10.0%
	Non-fatal injury	1,857	1,829	1,844	1,791	1,843	2.9%	-0.2%
	Property damage	21,342	20,823	21,202	21,533	22,704	5.4%	1.6%
	<b>Total</b>	<b>23,225</b>	<b>22,679</b>	<b>23,079</b>	<b>23,351</b>	<b>24,585</b>	<b>5.3%</b>	<b>1.4%</b>
	<i>Fatal, per 100m VMT</i>	<i>0.04</i>	<i>0.03</i>	<i>0.04</i>	<i>0.03</i>	<i>0.05</i>	<i>40.7%</i>	<i>7.4%</i>
	<i>Total, per 100m VMT</i>	<i>32.10</i>	<i>29.28</i>	<i>29.35</i>	<i>29.42</i>	<i>30.98</i>	<i>5.3%</i>	<i>-0.9%</i>
	Injuries in hit-and-run collisions, by person type and injury status					Annual rate of change		
Person type	Injury status	2010	2011	2012	2013	2014	2013-14	2010-14
Driver	Fatal	10	3	14	10	9	-10.0%	-2.6%
	Incapacitating	55	47	65	64	110	71.9%	18.9%
	Non-incapacitating	1,214	1,214	1,251	1,219	1,253	2.8%	0.8%
	<b>Subtotal</b>	<b>1,279</b>	<b>1,264</b>	<b>1,330</b>	<b>1,293</b>	<b>1,372</b>	<b>6.1%</b>	<b>1.8%</b>
Injured occupant	Fatal	4	3	5	4	7	75.0%	15.0%
	Incapacitating	35	32	60	30	72	140.0%	19.8%
	Non-incapacitating	555	502	543	614	525	-14.5%	-1.4%
	<b>Subtotal</b>	<b>594</b>	<b>537</b>	<b>608</b>	<b>648</b>	<b>604</b>	<b>-6.8%</b>	<b>0.4%</b>
Non-motorist	Fatal	12	21	14	14	25	78.6%	20.1%
	Incapacitating	46	43	39	31	49	58.1%	1.6%
	Non-incapacitating	365	369	299	290	244	-15.9%	-9.6%
	<b>Subtotal</b>	<b>423</b>	<b>433</b>	<b>352</b>	<b>335</b>	<b>318</b>	<b>-5.1%</b>	<b>-6.9%</b>
All	Fatal	26	27	33	28	41	46.4%	12.1%
	Incapacitating	136	122	164	125	231	84.8%	14.2%
	Non-incapacitating	2,134	2,085	2,093	2,123	2,022	-4.8%	-1.3%
	<b>Total</b>	<b>2,296</b>	<b>2,234</b>	<b>2,290</b>	<b>2,276</b>	<b>2,294</b>	<b>0.8%</b>	<b>0.0%</b>

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) See glossary for definition of *hit-and-run*.
- 2) *Non-fatal injury* collisions are those with no fatalities and at least one injury reported as *incapacitating, non-incapacitating, or possible*.
- 3) *Non-incapacitating* includes injuries reported as *non-incapacitating* and *possible*.
- 4) *Non-motorist* includes *pedestrians, pedalcyclists, and animal-drawn vehicle occupants*.

**Table 2.9. Cell phone-distracted collisions and related injuries in Indiana, 2010-2014**

	Cell phone-distracted collisions, by severity						Annual rate of change		
	Severity	2010	2011	2012	2013	2014	2013-14	2010-14	
	Fatal	4	5	7	5	6	20.0%	10.7%	
	Non-fatal injury	334	320	283	269	275	2.2%	-4.7%	
	Property damage	949	845	845	795	790	-0.6%	-4.5%	
	<b>Total</b>	<b>1,287</b>	<b>1,170</b>	<b>1,135</b>	<b>1,069</b>	<b>1,071</b>	<b>0.2%</b>	<b>-4.5%</b>	
	<i>Fatal, per 100m VMT</i>	<i>0.006</i>	<i>0.006</i>	<i>0.009</i>	<i>0.006</i>	<i>0.008</i>	<i>20.0%</i>	<i>8.1%</i>	
	<i>Total, per 100m VMT</i>	<i>1.78</i>	<i>1.51</i>	<i>1.44</i>	<i>1.35</i>	<i>1.35</i>	<i>0.2%</i>	<i>-6.7%</i>	
		Injuries in cell phone-distracted collisions, by person type and injury status						Annual rate of change	
Person type	Injury status	2010	2011	2012	2013	2014	2013-14	2010-14	
Driver	Fatal	5	4	3	4	6	50.0%	4.7%	
	Incapacitating	19	18	22	16	30	87.5%	12.1%	
	Non-incapacitating	306	289	262	265	262	-1.1%	-3.8%	
	<b>Subtotal</b>	<b>330</b>	<b>311</b>	<b>287</b>	<b>285</b>	<b>298</b>	<b>4.6%</b>	<b>-2.5%</b>	
Injured occupant	Fatal	0	1	3	1	0	-100.0%	na	
	Incapacitating	3	1	5	5	11	120.0%	38.4%	
	Non-incapacitating	110	106	90	78	85	9.0%	-6.2%	
	<b>Subtotal</b>	<b>113</b>	<b>108</b>	<b>98</b>	<b>84</b>	<b>96</b>	<b>14.3%</b>	<b>-4.0%</b>	
Non-motorist	Fatal	0	2	3	1	0	-100.0%	na	
	Incapacitating	3	3	1	2	0	-100.0%	na	
	Non-incapacitating	11	13	13	10	11	10.0%	0.0%	
	<b>Subtotal</b>	<b>14</b>	<b>18</b>	<b>17</b>	<b>13</b>	<b>11</b>	<b>-15.4%</b>	<b>-5.9%</b>	
All	Fatal	5	7	9	6	6	0.0%	4.7%	
	Incapacitating	25	22	28	23	41	78.3%	13.2%	
	Non-incapacitating	427	408	365	353	358	1.4%	-4.3%	
	<b>Total</b>	<b>457</b>	<b>437</b>	<b>402</b>	<b>382</b>	<b>405</b>	<b>6.0%</b>	<b>-3.0%</b>	

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) See glossary for definition of *cell phone-distracted*.
- 2) *Non-fatal injury* collisions are those with no fatalities and at least one injury reported as *incapacitating, non-incapacitating, or possible*.
- 3) *Non-incapacitating* includes injuries reported as *non-incapacitating* and *possible*.
- 4) *Non-motorist* includes *pedestrians, pedalcyclists, and animal-drawn vehicle occupants*.

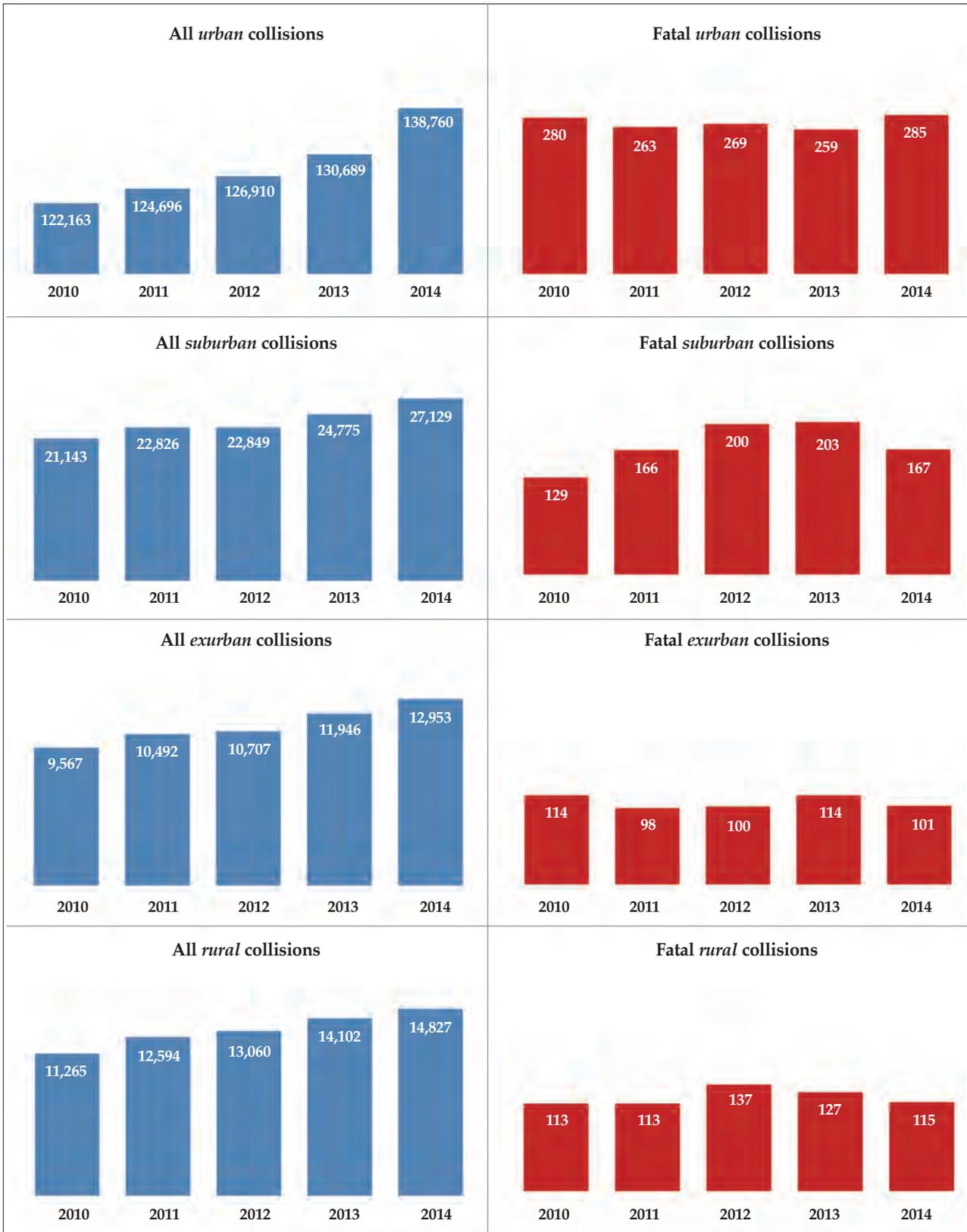
Table 2.10. Indiana collisions and injuries, by driver action, 2010-2014

Action	2010	2011	2012	2013	2014
<b>Fatal collisions</b>					
Alcohol-impaired	18.6%	20.4%	23.2%	17.2%	13.4%
Aggressive driving	3.1%	4.4%	4.6%	7.7%	6.6%
Speeding	19.9%	19.6%	22.6%	26.1%	26.2%
Disregarded traffic signal	2.1%	2.2%	3.1%	2.7%	2.3%
Hit-and-run	3.7%	4.0%	4.6%	3.8%	5.4%
Cell phone-distracted	0.6%	0.7%	1.0%	0.7%	0.9%
<b>Total collisions</b>					
Alcohol-impaired	2.6%	2.6%	2.7%	2.5%	2.2%
Aggressive driving	2.1%	2.3%	2.4%	2.6%	3.0%
Speeding	9.6%	9.3%	8.8%	9.6%	12.1%
Disregarded traffic signal	2.1%	2.1%	2.1%	2.2%	2.0%
Hit-and-run	12.0%	12.0%	12.2%	12.1%	12.0%
Cell phone-distracted	0.7%	0.6%	0.6%	0.6%	0.5%
<b>Fatal injuries</b>					
Alcohol-impaired	17.9%	19.3%	22.7%	17.1%	13.6%
Aggressive driving	3.1%	5.2%	4.6%	8.2%	7.1%
Speeding	19.7%	20.1%	22.4%	27.6%	27.1%
Disregarded traffic signal	2.0%	2.3%	2.9%	2.6%	2.4%
Hit-and-run	3.5%	3.6%	4.2%	3.6%	5.5%
Cell phone-distracted	0.7%	0.9%	1.2%	0.8%	0.8%
<b>Total injuries</b>					
Alcohol-impaired	4.6%	4.7%	4.7%	4.6%	4.0%
Aggressive driving	3.8%	3.9%	4.1%	4.8%	5.3%
Speeding	12.5%	13.0%	12.4%	13.5%	15.6%
Disregarded traffic signal	5.1%	5.0%	5.4%	5.5%	5.2%
Hit-and-run	5.1%	5.3%	5.2%	5.3%	5.3%
Cell phone-distracted	1.0%	1.0%	0.9%	0.8%	0.9%

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Note: Total injuries include injuries reported as fatal, incapacitating, non-incapacitating, and possible.

Figure 2.3. Indiana collisions, by locale, 2010-2014



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) See glossary for definition of census locale.
- 2) Excludes collisions where locale could not be determined.

CHAPTER 3  
**COLLISIONS**



## COLLISIONS, 2014

This section summarizes single-year (2013 to 2014) and 5-year (2010-2014) collision trends in Indiana. In 2014, 205,532 traffic collisions occurred in Indiana, a 6.4 percent increase from 2013. Fatal collisions decreased 1.1 percent from 710 in 2013 to 702 in 2014. From 2010 to 2014, total collisions rose 1.5 percent annually (Table 3.1). The rate of fatal collisions decreased from 3.7 per 1,000 collisions in 2013 to 3.4 in 2014 (Figure 3.1).

### Non-motorists

In 2014, collisions involving pedestrians rose 4.4 percent from 2013. The rate of pedestrian collisions per 1,000 collisions fell slightly from 8.3 to 8.1. Collisions involving pedalcyclists decreased by 10.0 percent between 2013 and 2014. The rate of collisions involving pedalcyclists per 1,000 collisions decreased from 5.3 to 4.5 from 2013 to 2014 (Figure 3.2).

### Month, Day, and Time

The largest number of collisions per month in 2014 occurred in the late fall and winter (October, November, January, and February). In 2014, January accounted for the largest monthly total collisions. Summer and early fall months (July, August, and October) accounted for the highest monthly fatal collisions (Table 3.2).

In general, collisions were most common on weekdays during 3pm - 5:59pm. In 2014, the highest proportion of fatal collisions occurred on Sundays between the hours of 3am and 5:59am, and on Wednesdays during the 12am - 2:59am time frame (Table 3.3).

On average, monthly counts of daytime collisions are higher than counts of nighttime collisions. Average monthly daytime collisions in 2014 were 11,860 compared to 5,268 nighttime collisions. Both daytime and nighttime counts exceeded monthly averages in January, October, and November (Figure 3.3). Monthly average fatal collisions are slightly higher during the day (30) than night (28). The lowest number of daytime fatal collisions occurred in February (Figure 3.4).

In 2014, *alcohol-impaired* collisions represented 2.2 percent of all collisions. Collisions that involved speeding accounted for 12.1 percent of total collisions, and *hit-and-run* collisions accounted for 12 percent of total collisions. *Speed-related* collisions were proportionally most likely to occur during winter and early spring months (November-March). The highest proportion of *alcohol-impaired* collisions occurred in May, July, and August (Table 3.4). In 2014, *speed-related* collisions represented 26.2 percent (184 of 702) of fatal collisions; *alcohol-impaired* collisions accounted for 13.4 percent (94 of 702) of fatal collisions (not shown in table).

With regard to time of day, the highest proportion of *hit-and-run* and *alcohol-impaired* collisions occurred from 12am - 5:59am across all days of the week, in particular on Saturday and Sunday. Proportions of *speed-related* collisions generally

were greater during the periods from 12am to noon (Table 3.5). *Distracted, any type* collisions were highest during the afternoon period (noon to 5:59pm) each day of the week.

### Primary Factor

In 2014, driver-related factors accounted for 85 percent of collisions and 96 percent of fatal collisions (calculated from Table 3.6). *Driver unsafe actions* represented the largest number of collisions in 2014. Within the *driver unsafe actions* category, primary factors classified as *following too closely* and *failure to yield right of way* accounted for the most collisions. Proportional to all fatal collisions, *ran off road* was the most common primary factor within the *driver loss of control* category. Rates of fatal and incapacitating injury collisions were higher among primary factors attributed to driver actions (27.4) than those with primary factors attributed to vehicles or the environment. In 2014, 74 of 1,000 collisions where the driver was identified with a *cognitive/physical impairment* were fatal or incapacitating injury collisions (Table 3.6).

Fatal collisions were less likely than non-fatal collisions to have been attributable to *driver unsafe actions*. *Driver loss of control* accounted for 26 percent of all fatal collisions, but only 10 percent of non-fatal collisions. *Environmental factors* (12 percent) were more likely to have been the primary factor in non-fatal collisions than in fatal collisions (Figure 3.5).

### Census Locale

Collision counts in 2014 were higher in Indiana *urban* (138,760) and *suburban* (27,129) areas than surrounding *exurban* and *rural* locales. However, rates of fatal and incapacitating injury collisions per 1,000 total collisions were higher in *rural* (41.2) and *exurban* (39.2) locales than in areas identified as *suburban* and *urban*. Between 2013 and 2014, rates of fatal and incapacitating injury collisions increased across all locales (Figure 3.6). This increase may be linked to the redefinition of incapacitating injury categories that resulted in count increases. In general during 2010 to 2014, collision counts were highest on *local/city roads* (92,126 in 2014) and lowest on *interstates*. Rates of fatal and incapacity injury collisions were higher on *county roads* and *state roads* than on other road types (Figure 3.7).

### Road Parameters and Manner of Collisions

When observing collisions by junction type, 72 percent of fatal collisions occurred at road segments with *no junction* (calculated from table). Collisions that occurred on a *curved* road had a higher rate of serious injury per 1,000 collisions (40.2 in 2014) than those on a *straight road* (23.8) (Table 3.7). Rear end as the manner of collision accounted for 23 percent of all collisions. *Ran off road* crashes accounted for 31 percent of fatal collisions (calculated from table), and had a fatal and incapacitating injury per 1,000 collision rate of 53.6 in 2014 (Table 3.8).

injury per 1,000 collision rate of 53.6 in 2014 (Table 3.8).

**Traffic Control Type and Environmental Conditions**

Collisions that involved traffic control types identified as *no passing zone* (48.0), *person directing traffic* (44.6), and *railroad crossing* (36.9) had the highest rates of fatal and incapacitating injury collisions (Table 3.9). Thirty-two percent of fatal collisions occurred on *dark (not lighted)* roads. Collisions on roads that were *dark (not lighted)* had the highest rates of fatal and incapacitating injury collisions (37.9 per 1,000 collisions) for light conditions. *Fog/smoke/smog* (45.3) had the highest rate of

fatal and incapacitating injury collisions per 1,000 collisions by weather conditions (Table 3.10).

**Economic Costs**

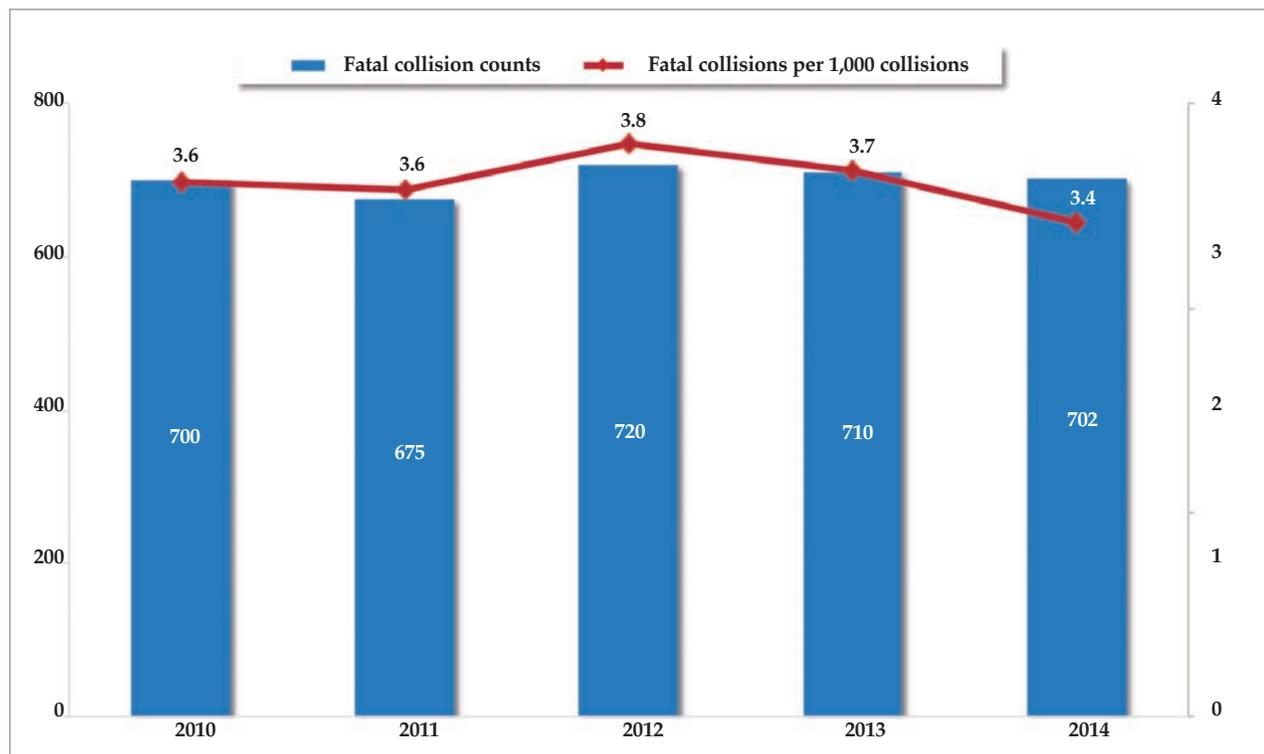
In 2014, the estimated economic cost of Indiana traffic collisions totaled \$3.8 billion. On average, the cost of each collision was estimated at \$18,424. The estimated economic cost of *speeding* collisions was \$616 million, with an average cost of \$24,814. The average cost of *alcohol-impaired* collisions was \$41,776, with a total economic cost of \$191 million (Table 3.11 and Figure 3.8).

**Table 3.1. Indiana traffic collisions, by collision severity, 2010-2014**

	2010	2011	2012	2013	2014	Annual rate of change	
						2013-14	2010-14
<b>All collisions</b>	<b>193,379</b>	<b>188,453</b>	<b>189,160</b>	<b>193,205</b>	<b>205,532</b>	<b>6.4%</b>	<b>1.5%</b>
Fatal	700	675	720	710	702	-1.1%	0.1%
Incapacitating	2,919	2,866	3,240	2,937	4,418	50.4%	10.9%
Non-incapacitating	31,228	29,923	30,892	29,909	29,405	-1.7%	-1.5%
Property damage only	158,532	154,989	154,308	159,649	171,007	7.1%	1.9%

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

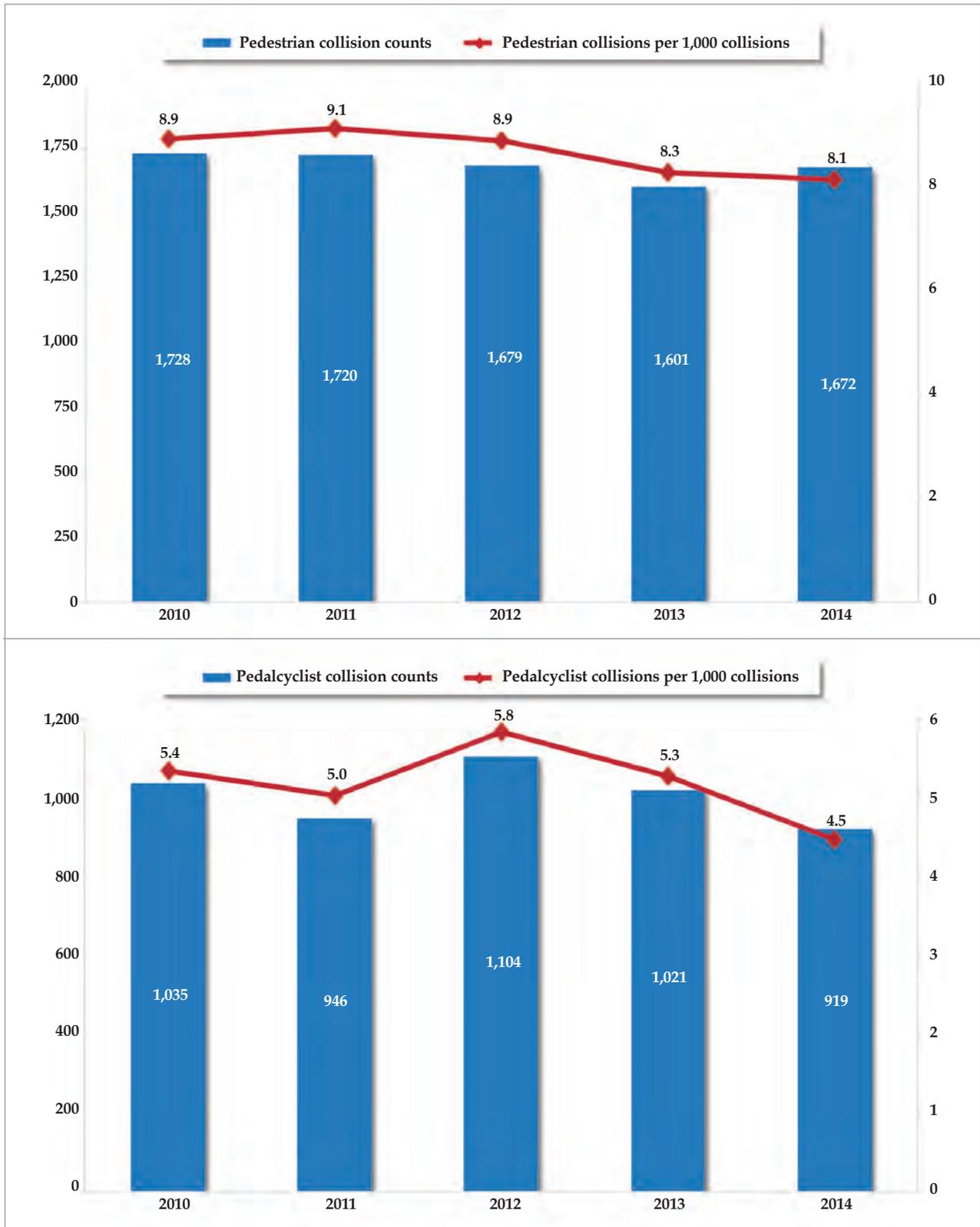
**Figure 3.1. Indiana fatal traffic collisions, 2010-2014**



Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Note: The most recent ARIES upgrade added a clarification to reporting officers on the definition of incapacitating injuries criteria to include “transported from scene for treatment”; therefore, 2014 increases in incapacitating injuries should be interpreted with caution.

Figure 3.2. Indiana collisions involving pedestrians and pedalcyclists, 2010-2014



Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

**Table 3.2. Indiana traffic collisions, by month, 2013-2014**

Month	Fatal collisions			Total collisions			% Change (2013-14)	
	2013	2014	Change	2013	2014	Change	Fatal	Total
Jan	46	37	-9	15,487	23,532	8,045	-19.6%	51.9%
Feb	43	35	-8	14,258	19,371	5,113	-18.6%	35.9%
Mar	54	46	-8	15,949	15,514	-435	-14.8%	-2.7%
Apr	65	46	-19	14,038	14,192	154	-29.2%	1.1%
May	51	66	15	16,325	15,904	-421	29.4%	-2.6%
Jun	51	63	12	15,267	15,364	97	23.5%	0.6%
Jul	57	74	17	15,017	14,912	-105	29.8%	-0.7%
Aug	76	83	7	15,502	15,636	134	9.2%	0.9%
Sep	78	65	-13	15,765	15,716	-49	-16.7%	-0.3%
Oct	71	69	-2	17,640	18,805	1,165	-2.8%	6.6%
Nov	62	55	-7	18,449	19,336	887	-11.3%	4.8%
Dec	56	63	7	19,508	17,250	-2,258	12.5%	-11.6%
<b>Total</b>	<b>710</b>	<b>702</b>	<b>-8</b>	<b>193,205</b>	<b>205,532</b>	<b>12,327</b>	<b>-1.1%</b>	<b>6.4%</b>



Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

**Table 3.3. Indiana traffic collisions, by day of week and time of day, 2014**

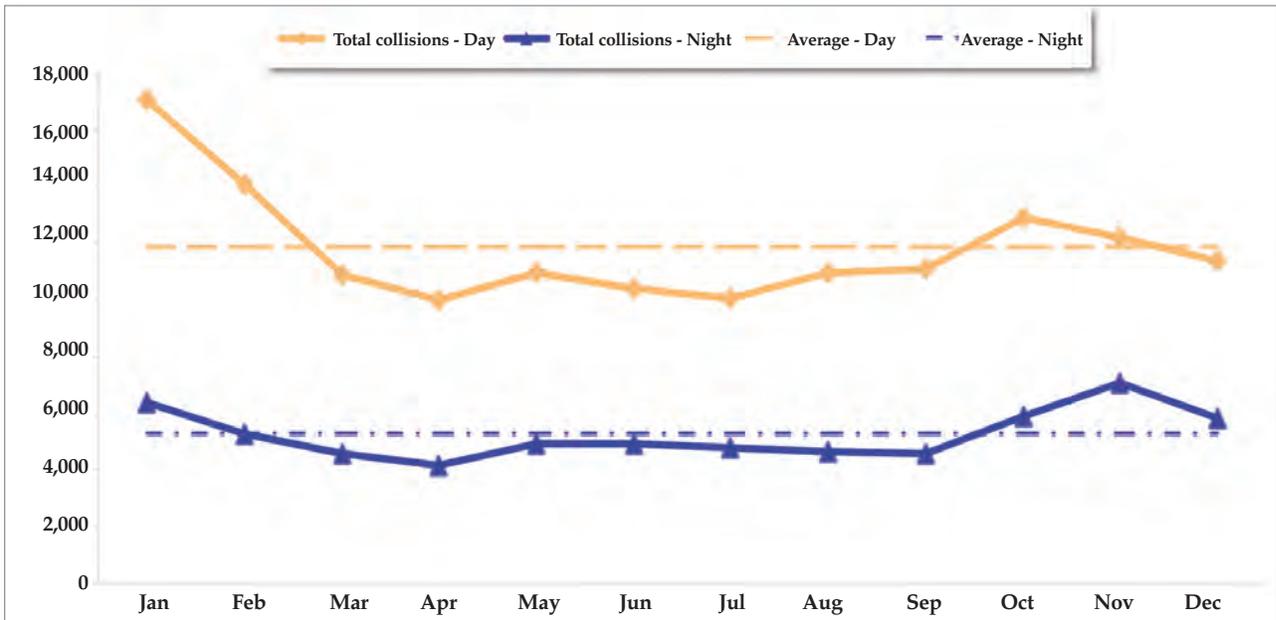
Day of week	Time of day								All hours
	12am-2:59am	3am-5:59am	6am-8:59am	9am-11:59am	12pm-2:59pm	3pm-5:59pm	6pm-8:59pm	9pm-11:59pm	
<b>Total collisions</b>	<b>8,710</b>	<b>9,276</b>	<b>27,149</b>	<b>28,541</b>	<b>37,601</b>	<b>49,027</b>	<b>28,594</b>	<b>16,634</b>	<b>205,532</b>
Sunday	1,980	1,516	1,473	2,702	3,810	3,971	3,355	1,930	20,737
Monday	863	1,115	4,072	3,902	5,223	7,326	3,920	1,918	28,339
Tuesday	947	1,263	5,335	4,277	5,420	7,762	3,893	2,016	30,913
Wednesday	918	1,280	4,711	4,177	5,473	7,593	4,016	2,096	30,264
Thursday	999	1,243	4,688	4,709	5,662	7,845	4,199	2,256	31,601
Friday	1,109	1,260	4,577	4,556	6,713	9,400	5,149	3,196	35,960
Saturday	1,894	1,599	2,293	4,218	5,300	5,130	4,062	3,222	27,718
<b>Fatal collisions</b>	<b>66</b>	<b>63</b>	<b>71</b>	<b>76</b>	<b>89</b>	<b>126</b>	<b>111</b>	<b>100</b>	<b>702</b>
Sunday	15	21	5	3	13	15	18	13	103
Monday	7	6	7	8	13	17	13	13	84
Tuesday	4	6	10	14	16	16	17	13	96
Wednesday	8	9	9	10	15	22	11	9	93
Thursday	7	6	10	19	7	20	11	14	94
Friday	9	10	17	10	12	10	25	21	114
Saturday	16	5	13	12	13	26	16	17	118
<b>% Fatal</b>	<b>0.76%</b>	<b>0.68%</b>	<b>0.26%</b>	<b>0.27%</b>	<b>0.24%</b>	<b>0.26%</b>	<b>0.39%</b>	<b>0.60%</b>	<b>0.34%</b>
Sunday	0.76%	1.39%	0.34%	0.11%	0.34%	0.38%	0.54%	0.67%	0.50%
Monday	0.81%	0.54%	0.17%	0.21%	0.25%	0.23%	0.33%	0.68%	0.30%
Tuesday	0.42%	0.48%	0.19%	0.33%	0.30%	0.21%	0.44%	0.64%	0.31%
Wednesday	0.87%	0.70%	0.19%	0.24%	0.27%	0.29%	0.27%	0.43%	0.31%
Thursday	0.70%	0.48%	0.21%	0.40%	0.12%	0.25%	0.26%	0.62%	0.30%
Friday	0.81%	0.79%	0.37%	0.22%	0.18%	0.11%	0.49%	0.66%	0.32%
Saturday	0.84%	0.31%	0.57%	0.28%	0.25%	0.51%	0.39%	0.53%	0.43%

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Note: Limited to collisions where day and time were reported.

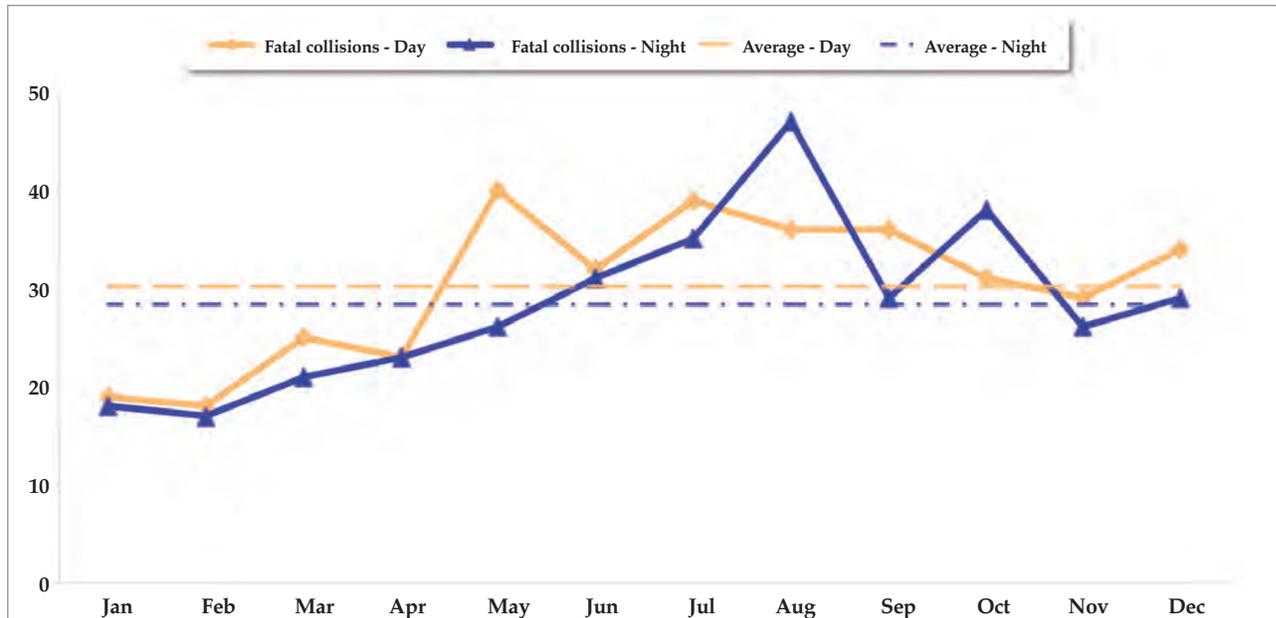


Figure 3.3. Indiana traffic collisions, by month and day/night, 2014



Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015  
 Note: Day is defined as 6am - 5:59pm. Night is defined as 6pm - 5:59am.

Figure 3.4. Indiana fatal collisions, by month and day/night, 2014



Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015  
 Note: Day is defined as 6am - 5:59pm. Night is defined as 6pm - 5:59am.

**Table 3.4. Collisions by month and collision circumstances, 2014**

Month	Total	Alcohol-impaired		Aggressive driving		Speed-related		Disregard signal		Hit-and-run		Distracted, any type		Distracted, cell phone	
		Count	As % month total	Count	As % month total	Count	As % month total	Count	As % month total	Count	As % month total	Count	As % month total	Count	As % month total
Jan	23,532	381	1.6	971	4.1	7,683	32.6	334	1.4	2,518	10.7	475	2.0	41	0.2
Feb	19,371	377	1.9	728	3.8	4,323	22.3	329	1.7	2,330	12.0	575	3.0	56	0.3
Mar	15,514	363	2.3	438	2.8	2,165	14.0	357	2.3	1,953	12.6	615	4.0	80	0.5
Apr	14,192	323	2.3	356	2.5	926	6.5	346	2.4	1,799	12.7	754	5.3	81	0.6
May	15,904	410	2.6	392	2.5	871	5.5	351	2.2	1,988	12.5	859	5.4	109	0.7
Jun	15,364	333	2.2	411	2.7	931	6.1	334	2.2	1,946	12.7	793	5.2	94	0.6
Jul	14,912	395	2.6	428	2.9	824	5.5	331	2.2	1,911	12.8	795	5.3	90	0.6
Aug	15,636	411	2.6	467	3.0	1,032	6.6	352	2.3	1,963	12.6	870	5.6	113	0.7
Sep	15,716	391	2.5	412	2.6	888	5.7	358	2.3	1,963	12.5	885	5.6	86	0.5
Oct	18,805	387	2.1	566	3.0	1,312	7.0	416	2.2	2,093	11.1	965	5.1	110	0.6
Nov	19,336	404	2.1	541	2.8	2,235	11.6	356	1.8	2,018	10.4	765	4.0	97	0.5
Dec	17,250	399	2.3	499	2.9	1,620	9.4	334	1.9	2,103	12.2	826	4.8	114	0.7
<b>Total</b>	<b>205,532</b>	<b>4,574</b>	<b>2.2</b>	<b>6,209</b>	<b>3.0</b>	<b>24,810</b>	<b>12.1</b>	<b>4,198</b>	<b>2.0</b>	<b>24,585</b>	<b>12.0</b>	<b>9,177</b>	<b>4.5</b>	<b>1,071</b>	<b>0.5</b>

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015



Notes:

- 1) Color comparisons are applied within collision-type categories.
- 2) Counts of different collisions circumstances will not sum to the total number of collisions.
- 3) See glossary for definitions of *alcohol-impaired*, *aggressive driving*, *speed-related*, *disregard signal*, *hit-and-run*, and *distracted, cell phone* collisions.

**Table 3.5. Indiana traffic collisions, by day, hour, and collision circumstances, 2014**

Day	Time	All collisions	Alcohol-impaired		Aggressive driving		Speed-related		Disregard signal		Hit-and-run		Distracted, any type		Distracted, cell phone	
		Total	Count	As % day/ time total	Count	As % day/ time total	Count	As % day/ time total	Count	As % day/ time total	Count	As % day/ time total	Count	As % day/ time total	Count	As % day/ time total
Mon	12am - 5:59am	1,978	124	6.3	51	2.6	300	15.2	19	1.0	305	15.4	59	3.0	10	0.5
	6am - 11:59am	7,974	31	0.4	278	3.5	951	11.9	180	2.3	745	9.3	365	4.6	31	0.4
	12pm - 5:59pm	12,549	71	0.6	414	3.3	1,097	8.7	257	2.0	1,265	10.1	674	5.4	75	0.6
	6pm - 11:59pm	5,838	207	3.5	191	3.3	575	9.8	146	2.5	872	14.9	239	4.1	39	0.7
Tue	12am - 5:59am	2,210	103	4.7	57	2.6	385	17.4	26	1.2	370	16.7	74	3.3	13	0.6
	6am - 11:59am	9,612	30	0.3	340	3.5	1,689	17.6	211	2.2	771	8.0	363	3.8	32	0.3
	12pm - 5:59pm	13,182	86	0.7	398	3.0	1,157	8.8	272	2.1	1,267	9.6	695	5.3	66	0.5
	6pm - 11:59pm	5,909	207	3.5	171	2.9	583	9.9	120	2.0	840	14.2	255	4.3	36	0.6
Wed	12am - 5:59am	2,198	152	6.9	66	3.0	369	16.8	27	1.2	399	18.2	78	3.5	16	0.7
	6am - 11:59am	8,888	33	0.4	291	3.3	1,282	14.4	226	2.5	761	8.6	391	4.4	38	0.4
	12pm - 5:59pm	13,066	96	0.7	418	3.2	1,089	8.3	316	2.4	1,308	10.0	682	5.2	79	0.6
	6pm - 11:59pm	6,112	220	3.6	189	3.1	620	10.1	129	2.1	897	14.7	265	4.3	39	0.6
Thu	12am - 5:59am	2,242	154	6.9	48	2.1	357	15.9	26	1.2	397	17.7	77	3.4	13	0.6
	6am - 11:59am	9,397	35	0.4	312	3.3	1,732	18.4	209	2.2	724	7.7	318	3.4	23	0.2
	12pm - 5:59pm	13,507	96	0.7	426	3.2	1,445	10.7	250	1.9	1,352	10.0	702	5.2	54	0.4
	6pm - 11:59pm	6,455	210	3.3	172	2.7	753	11.7	107	1.7	930	14.4	279	4.3	34	0.5
Fri	12am - 5:59am	2,369	171	7.2	63	2.7	368	15.5	35	1.5	474	20.0	64	2.7	13	0.5
	6am - 11:59am	9,133	49	0.5	266	2.9	1,178	12.9	216	2.4	856	9.4	360	3.9	39	0.4
	12pm - 5:59pm	16,113	122	0.8	482	3.0	1,392	8.6	284	1.8	1,567	9.7	847	5.3	85	0.5
	6pm - 11:59pm	8,345	348	4.2	222	2.7	846	10.1	162	1.9	1,237	14.8	373	4.5	48	0.6
Sat	12am - 5:59am	3,493	501	14.3	93	2.7	593	17.0	59	1.7	950	27.2	111	3.2	26	0.7
	6am - 11:59am	6,511	67	1.0	173	2.7	1,140	17.5	135	2.1	655	10.1	255	3.9	28	0.4
	12pm - 5:59pm	10,430	117	1.1	318	3.0	1,126	10.8	213	2.0	1,217	11.7	463	4.4	55	0.5
	6pm - 11:59pm	7,284	384	5.3	200	2.7	904	12.4	147	2.0	1,254	17.2	287	3.9	45	0.6
Sun	12am - 5:59am	3,496	587	16.8	75	2.1	587	16.8	44	1.3	976	27.9	114	3.3	32	0.9
	6am - 11:59am	4,175	72	1.7	124	3.0	866	20.7	115	2.8	543	13.0	165	4.0	16	0.4
	12pm - 5:59pm	7,781	90	1.2	223	2.9	800	10.3	169	2.2	911	11.7	413	5.3	52	0.7
	6pm - 11:59pm	5,285	211	4.0	148	2.8	626	11.8	98	1.9	742	14.0	209	4.0	34	0.6
Mon	(Total)	28,339	433	1.5	934	3.3	2,923	10.3	602	2.1	3,187	11.2	1,337	4.7	155	0.5
Tue	(Total)	30,913	426	1.4	966	3.1	3,814	12.3	629	2.0	3,248	10.5	1,387	4.5	147	0.5
Wed	(Total)	30,264	501	1.7	964	3.2	3,360	11.1	698	2.3	3,365	11.1	1,416	4.7	172	0.6
Thu	(Total)	31,601	495	1.6	958	3.0	4,287	13.6	592	1.9	3,403	10.8	1,376	4.4	124	0.4
Fri	(Total)	35,960	690	1.9	1,033	2.9	3,784	10.5	697	1.9	4,134	11.5	1,644	4.6	185	0.5
Sat	(Total)	27,718	1,069	3.9	784	2.8	3,763	13.6	554	2.0	4,076	14.7	1,116	4.0	154	0.6
Sun	(Total)	20,737	960	4.6	570	2.7	2,879	13.9	426	2.1	3,172	15.3	901	4.3	134	0.6
		205,532	4,574	2.2	6,209	3.0	24,810	12.1	4,198	2.0	24,585	12.0	9,177	4.5	1,071	0.5

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) Total daily counts exclude collisions with invalid time reported.
- 2) Color comparisons are applied within collision-type categories.
- 3) Counts of different collisions circumstances will not sum to the total number of collisions.
- 4) See glossary for definitions of alcohol-impaired, aggressive driving, speed-related, disregard signal, hit-and-run, and distracted, cell phone collisions.



Table 3.6. Indiana collisions, by primary factor and collision severity, 2014

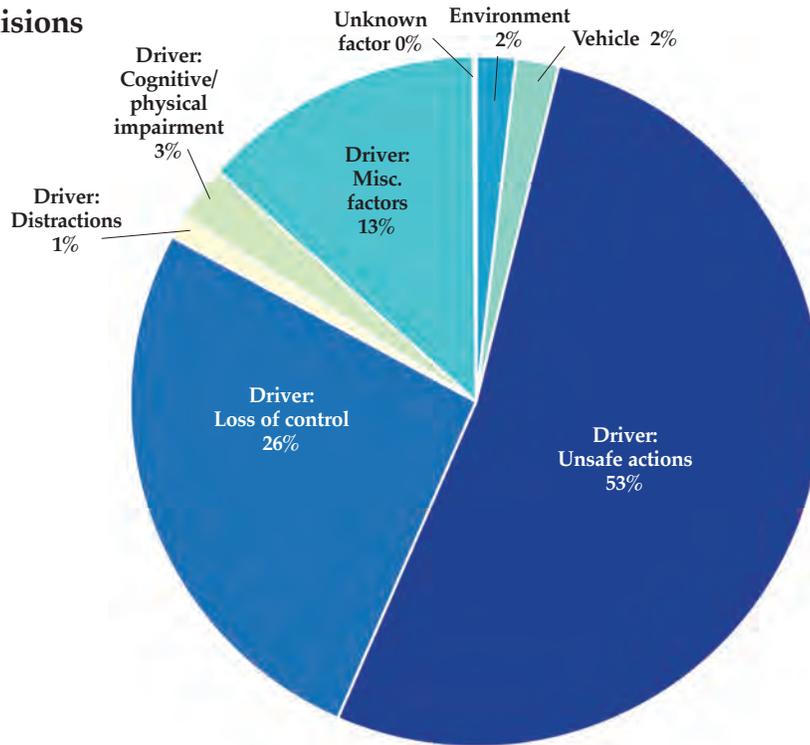
Primary factor	Collisions, by severity					Fatal/incap injuries per 1,000 collisions
	Total	Fatal	Incapacitating	Non-incapacitating	Property damage	
<b>Driver: Unsafe actions</b>	<b>133,470</b>	<b>370</b>	<b>2,523</b>	<b>19,918</b>	<b>110,659</b>	<b>21.7</b>
Following too closely	32,395	17	401	5,229	26,748	12.9
Failure to yield right of way	30,839	96	868	6,656	23,219	31.3
Unsafe backing	20,002	1	30	356	19,615	1.5
Speed too fast for weather conditions	13,812	26	235	1,843	11,708	18.9
Unsafe lane movement	7,266	15	100	649	6,502	15.8
Disregard signal/Reg sign	7,090	42	296	2,221	4,531	47.7
Improper turning	6,530	3	50	458	6,019	8.1
Improper lane usage	5,300	9	56	400	4,835	12.3
Unsafe speed	4,474	71	239	1,084	3,080	69.3
Left of center	3,558	78	190	786	2,504	75.3
Improper passing	1,982	5	47	185	1,745	26.2
Wrong way on one way	222	7	11	51	153	81.1
<b>Driver: Loss of control</b>	<b>19,699</b>	<b>185</b>	<b>945</b>	<b>3,799</b>	<b>14,770</b>	<b>57.4</b>
Ran off road	16,391	163	809	3,198	12,221	59.3
Overcorrecting/over steering	3,308	22	136	601	2,549	47.8
<b>Driver: Distractions</b>	<b>5,527</b>	<b>8</b>	<b>116</b>	<b>970</b>	<b>4,433</b>	<b>22.4</b>
Unspecified distraction	5,150	7	108	895	4,140	22.3
Cell phone/other electronic device	377	1	8	75	293	16.9
<b>Driver: Cognitive/Physical impairment</b>	<b>2,130</b>	<b>18</b>	<b>140</b>	<b>645</b>	<b>1,327</b>	<b>74.2</b>
Driver asleep or fatigued	1,399	5	61	357	976	47.2
Driver illness	706	13	79	280	334	130.3
Alcoholic beverages	23	0	0	7	16	0.0
Illegal drugs	2	0	0	1	1	0.0
<b>Driver: Miscellaneous factors</b>	<b>13,946</b>	<b>93</b>	<b>385</b>	<b>2,063</b>	<b>11,405</b>	<b>34.3</b>
Other (unspecified)	13,112	40	232	1,578	11,262	20.7
Influenced by pedestrian action	833	53	153	485	142	247.3
(Driver not a factor)	1	0	0	0	1	0.0
<b>Driver factors (all)</b>	<b>174,772</b>	<b>674</b>	<b>4,109</b>	<b>27,395</b>	<b>142,594</b>	<b>27.4</b>
<b>Vehicle factors</b>	<b>5,035</b>	<b>14</b>	<b>95</b>	<b>616</b>	<b>4,310</b>	<b>21.6</b>
<b>Environmental factors</b>	<b>24,485</b>	<b>13</b>	<b>211</b>	<b>1,357</b>	<b>22,904</b>	<b>9.1</b>
<b>Unknown</b>	<b>1,240</b>	<b>1</b>	<b>3</b>	<b>37</b>	<b>1,199</b>	<b>3.2</b>
<b>All collisions</b>	<b>205,532</b>	<b>702</b>	<b>4,418</b>	<b>29,405</b>	<b>171,007</b>	<b>24.9</b>

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

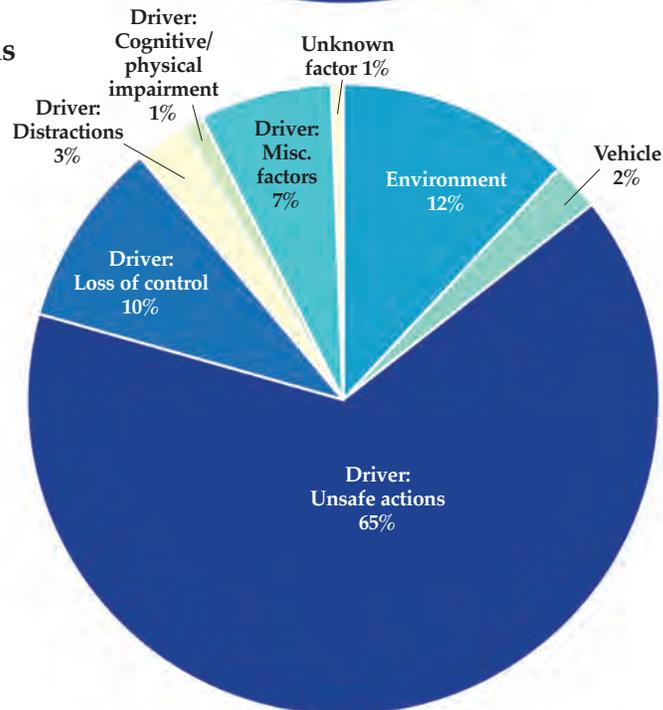
Note: *Non-incapacitating* collisions include those with one or more *non-incapacitating* or *possible* injuries.

Figure 3.5. Indiana traffic collisions, by primary factor and severity, 2014

### Fatal collisions (N = 702)



### Non-fatal collisions (N = 204,830)

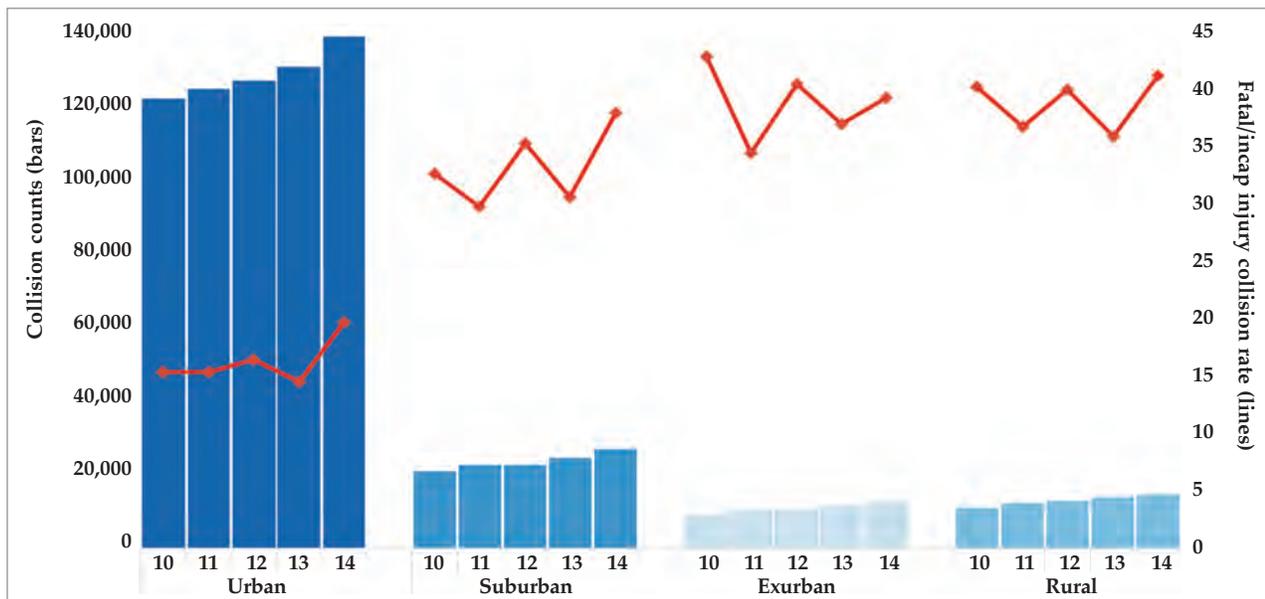


Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) See Table 3.6 for definitions of factor categories related to driver actions.
- 2) Limited to collisions for which the primary factor is known.

**Figure 3.6. Indiana traffic collisions and fatal and incapacitating injury collision rates, by locale, 2010-2014**

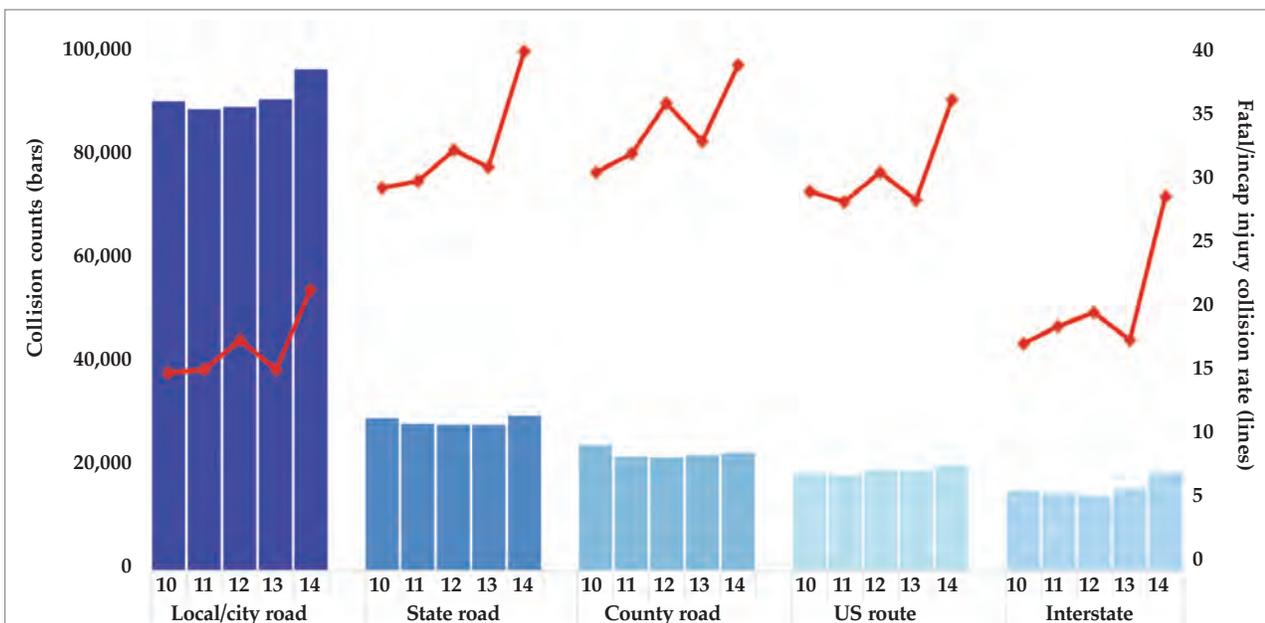


Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) Includes only collisions where valid locale was identified.
- 2) Fatal and incapacitating injury collision rate is calculated per 1,000 total collisions in each locale.

**Figure 3.7. Indiana traffic collisions and fatal and incapacitating injury collision rates, by road class, 2010-2014**



Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) Excludes unknown road class.
- 2) The most recent ARIES upgrade added a clarification to reporting officers on the definition of incapacitating injuries criteria to include "transported from scene for treatment"; therefore, 2014 increases in incapacitating injuries should be interpreted with caution.

Table 3.7. Indiana traffic collisions, by severity and road parameters, 2014

	Collisions, by severity					Fatal/incap injuries per 1,000 collisions
	Total	Fatal	Incapacitating	Non-incapacitating	Property damage	
<b>Total collisions</b>	<b>205,532</b>	<b>702</b>	<b>4,418</b>	<b>29,405</b>	<b>171,007</b>	<b>24.9</b>
<b>By junction type</b>						
No junction involved	137,380	505	2,880	16,949	117,046	● 24.6
Four-way intersection	40,029	119	944	8,276	30,690	● 26.6
T-intersection	21,000	46	454	3,207	17,293	● 23.8
Ramp	3,051	15	53	394	2,589	● 22.3
Interchange	1,366	4	36	229	1,097	● 29.3
Traffic circle/roundabout	1,113	2	11	93	1,007	● 11.7
Y-intersection	736	3	19	116	598	● 29.9
Five point or more	527	3	8	102	414	● 20.9
Railroad crossings	271	5	11	34	221	● 59.0
Trail crossings	15	0	2	5	8	● 133.3
Unknown	44	0	0	0	44	● 0.0
<b>By road character</b>						
<b>Straight</b>	<b>179,710</b>	<b>559</b>	<b>3,712</b>	<b>25,968</b>	<b>149,471</b>	● <b>23.8</b>
Level	150,865	436	3,045	21,843	125,541	● 23.1
Graded	22,975	100	488	3,211	19,176	● 25.6
Hillcrest	5,870	23	179	914	4,754	● 34.4
<b>Curve</b>	<b>20,090</b>	<b>139</b>	<b>669</b>	<b>3,189</b>	<b>16,093</b>	● <b>40.2</b>
Level	12,308	86	377	1,923	9,922	● 37.6
Graded	6,517	47	245	1,065	5,160	● 44.8
Hillcrest	1,265	6	47	201	1,011	● 41.9
<b>Non-roadway crash</b>	<b>5,436</b>	<b>4</b>	<b>36</b>	<b>237</b>	<b>5,159</b>	● <b>7.4</b>
<b>Unknown</b>	<b>296</b>	<b>0</b>	<b>1</b>	<b>11</b>	<b>284</b>	● <b>3.4</b>
<b>Roadway surface type</b>						
Asphalt	181,588	630	3,949	26,163	150,846	● 25.2
Concrete	20,254	54	407	2,901	16,892	● 22.8
Gravel	2,563	13	40	229	2,281	● 20.7
Other	875	5	20	100	750	● 28.6
Unknown	252	0	2	12	238	● 7.9



Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Note: Fatal and incapacitating injury collision rate is calculated per 1,000 total collisions in each roadway surface type category.

**Table 3.8. Indiana traffic collisions, by severity and manner of collision, 2014**

Manner of collision	Collisions, by severity					Fatal/incap injuries per 1,000 collisions
	Total	Fatal	Incapacitating	Non-incapacitating	Property damage	
<b>Total collisions</b>	<b>205,532</b>	<b>702</b>	<b>4,418</b>	<b>29,405</b>	<b>171,007</b>	<b>24.9</b>
Rear end	48,162	76	719	8,087	39,280	● 16.5
Right angle	31,622	141	892	6,909	23,680	● 32.7
Ran off road	26,961	221	1,223	5,086	20,431	● 53.6
Backing	21,631	1	47	421	21,162	● 2.2
Same direction sideswipe	20,840	19	168	1,284	19,369	● 9.0
Head on	18,635	149	517	2,991	14,978	● 35.7
Other collisions manner	13,875	45	349	1,198	12,283	● 28.4
Left turn	9,295	16	237	1,785	7,257	● 27.2
Opposite direction sideswipe	5,531	13	87	531	4,900	● 18.1
Right turn	2,854	2	27	232	2,593	● 10.2
Non-collision	2,365	17	110	522	1,716	● 53.7
Left/right turn	2,304	0	36	297	1,971	● 15.6
Rear to rear	379	0	4	32	343	● 10.6
Unknown	1,078	2	2	30	1,044	● 3.7

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Note: Fatal and incapacitating injury collision rate is calculated per 1,000 total collisions by each manner of collision.



**Table 3.9. Indiana collisions, by severity and traffic control type, 2014**

Traffic control type	Collisions, by severity					Fatal/incap injuries per 1,000 collisions
	Total	Fatal	Incapacitating	Non-incapacitating	Property damage	
<b>Total collisions</b>	<b>205,532</b>	<b>702</b>	<b>4,418</b>	<b>29,405</b>	<b>171,007</b>	<b>24.9</b>
Lane control	49,906	229	1,205	7,417	41,055	● 28.7
Traffic control signal	36,515	58	748	7,006	28,703	● 22.1
Stop sign	19,356	75	522	3,692	15,067	● 30.8
No passing zone	3,875	47	139	705	2,984	● 48.0
Yield sign	1,710	2	38	232	1,438	● 23.4
Other regulatory sign/markings	1,381	7	36	196	1,142	● 31.1
Flashing signal	1,175	4	29	277	865	● 28.1
Railroad crossing	379	5	9	54	311	● 36.9
Person directing traffic	202	1	8	32	161	● 44.6
None	90,627	274	1,679	9,774	78,900	● 21.5
Unknown	406		5	20	381	● 12.3

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Note: Fatal and incapacitating injury collision rate is calculated per 1,000 total collisions by each manner of collision.



Table 3.10. Indiana traffic collisions, by severity and environmental conditions, 2014

	Collisions, by severity					Fatal/incap injuries per 1,000 collisions
	Total	Fatal	Incapacitating	Non-incapacitating	Property damage	
<b>All collisions</b>	<b>205,532</b>	<b>702</b>	<b>4,418</b>	<b>29,405</b>	<b>171,007</b>	<b>24.9</b>
<b>By light conditions</b>						
Daylight	136,091	354	2,573	20,612	112,552	● 21.5
Dark (not lighted)	30,937	223	950	3,609	26,155	● 37.9
Dark (lighted)	27,325	86	674	3,855	22,710	● 27.8
Dawn/dusk	9,779	37	217	1,307	8,218	● 26.0
Unknown	1,400	2	4	22	1,372	● 4.3
<b>By weather conditions</b>						
Clear	122,011	478	2,692	17,973	100,868	● 26.0
Cloudy	45,638	143	975	6,506	38,014	● 24.5
Rain	17,654	41	440	2,660	14,513	● 27.2
Snow	11,685	19	143	1,249	10,274	● 13.9
Blowing sand/soil/snow	5,063	7	61	568	4,427	● 13.4
Sleet/hail/freezing rain	1,787	7	68	243	1,469	● 42.0
Fog/smoke/smog	794	7	29	130	628	● 45.3
Severe cross wind	433	0	9	68	356	● 20.8
Unknown	467	0	1	8	458	● 2.1
<b>By road surface conditions</b>						
Dry	139,941	562	3,196	21,028	115,155	● 26.9
Wet	29,264	78	735	4,395	24,056	● 27.8
Snow/slush	19,595	25	154	1,954	17,462	● 9.1
Ice	14,802	31	288	1,778	12,705	● 21.6
Water (standing or moving)	682	2	11	92	577	● 19.1
Loose material on road	676	4	27	136	509	● 45.9
Muddy	143	0	6	13	124	● 42.0
Unknown	429	0	1	9	419	● 2.3

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Note: *Fatal and incapacitating injury* collision rate is calculated per 1,000 total collisions in each environmental condition category.



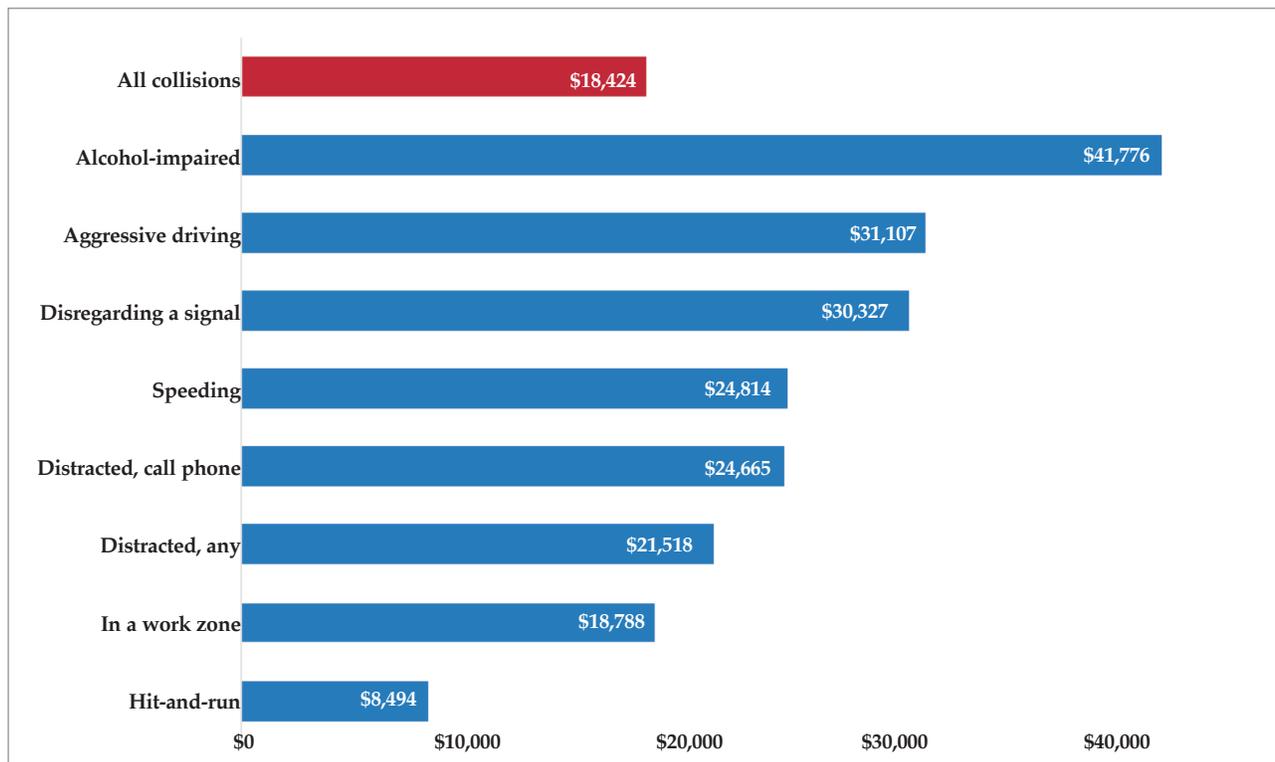
**Table 3.11. Economic cost of traffic collisions in Indiana, by collision type, 2014**

Collision type	Count of collisions	Total cost (millions)
<b>All collisions</b>	<b>205,532</b>	<b>\$3,786.6</b>
Speeding	24,810	\$615.6
Hit-and-run	24,585	\$208.8
Distracted, any	9,177	\$197.5
Alcohol-impaired	4,574	\$191.1
Aggressive driving	6,209	\$188.3
Disregard a signal	4,198	\$130.6
In a work zone	3,979	\$74.8
Distracted, cell phone	1,071	\$26.4

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Note: Counts of different collisions circumstances will not sum to the total number of collisions.

**Figure 3.8. Average economic cost of Indiana traffic collisions, 2014**



Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Note: See Appendix A for details on economic cost computations.

## Work Zone Collisions

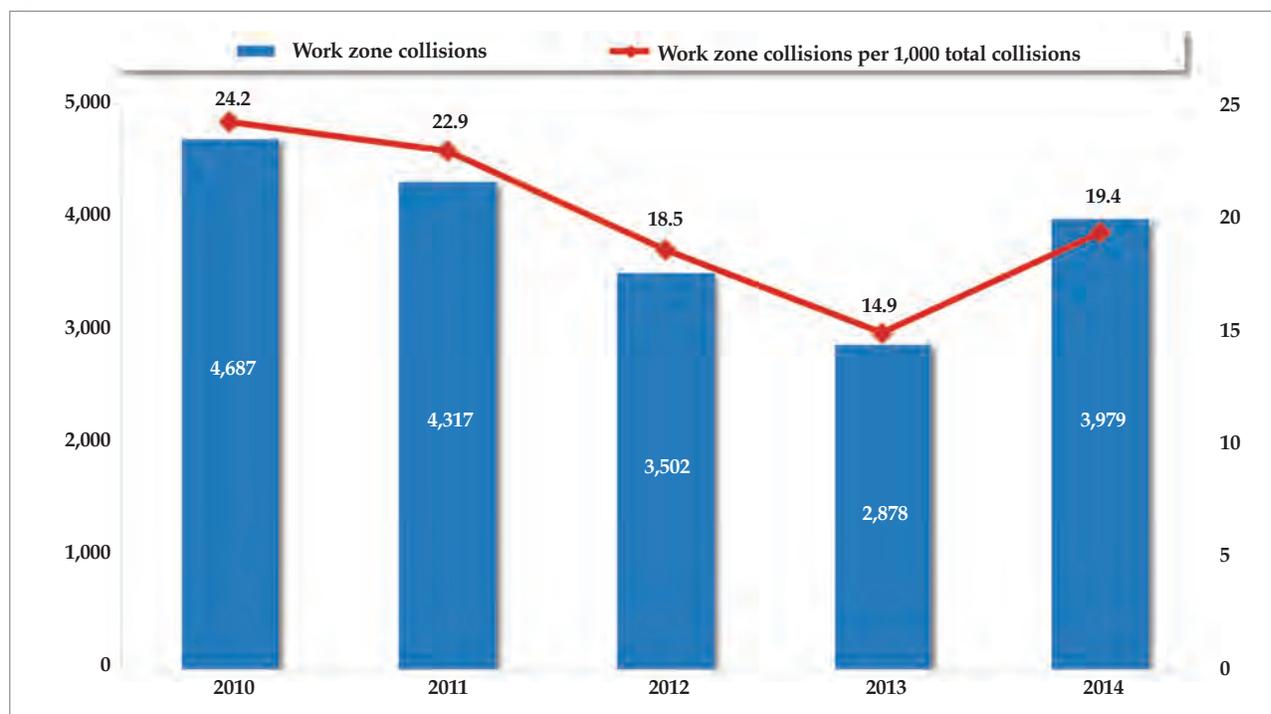
After declining between 2010 and 2013, the number of collisions occurring in work zones rose from 2,878 in 2013 to 3,979 in 2014. The work zone collision rate was 19.4 per 1,000 collisions in 2014, up from 14.9 in 2013 (Figure 3.9). In 2014, the fatal and incapacitating injury rate for work zones (21.4) was lower than for non-work zone collisions (25.0). Work zone collisions occurring in the construction type of *cross-over/lane shift* had the highest rate of fatal and incapacitating injury collisions, followed by *intermittent/moving work* (Table 3.12).

In 2014, work zone collision rates per 1,000 total collisions were highest in *urban* (21.1) and *suburban* (17.6) areas. Fatal and incapacitating injury collision rates were higher in *rural* (60.6) areas than other locales (Figure 3.10). Work zone colli-

sion rates were highest on *interstates* (82.9) and lowest on *county roads* (3.3). In 2014, rates of fatal and incapacitating injury collisions were highest on *state roads* (53.3) (Figure 3.11).

While the majority of work zone collisions (74 percent, calculated from table) occurred during *daylight*, fatal and incapacitating injury work zone collision rates per 1,000 collisions were highest when light conditions were *dark (not lighted)* (43.6). In 2014, the weather conditions with the highest rate of fatal and incapacitating injury in work zone collisions were *fog/smoke/smog* and *sleet/hail/freezing rain* (142.9) (Table 3.13). While *lane control* collisions represented the largest number of work zone collisions that occurred under traffic control type, the highest rate of fatal and incapacitating injury rates occurred under *person directing traffic* (58.0) (Table 3.14).

Figure 3.9. Indiana work zone collisions, 2010-2014



Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

**Table 3.12. Indiana collisions in work zones, by severity and construction type, 2014**

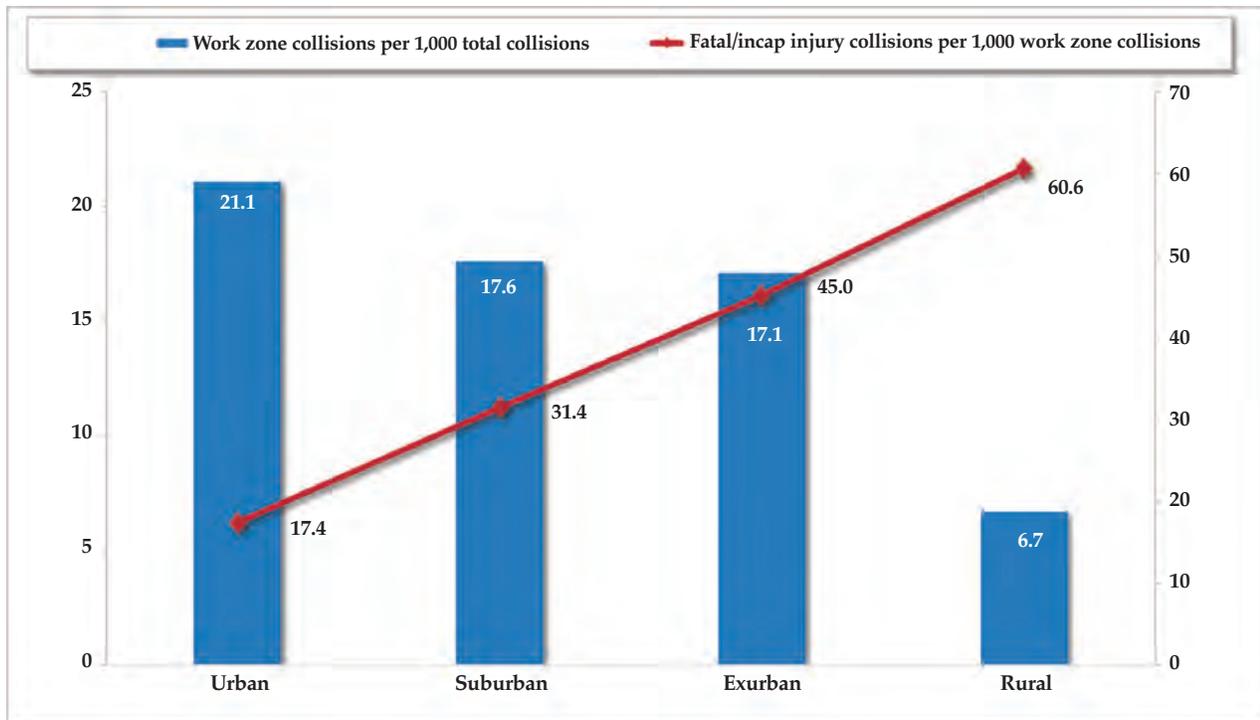
	Collisions, by severity					Fatal/incap injuries per 1,000 collisions
	Total	Fatal	Incapacitating	Non-incapacitating	Property damage	
<b>All collisions</b>	205,532	702	4,418	29,405	171,007	24.9
All construction types	3,979	10	75	547	3,347	21.4
Not in construction zone	201,553	692	4,343	28,858	167,660	25.0
<b>Construction zone type</b>						
Lane closure	1,972	5	32	252	1,683	● 18.8
Work on shoulder	980	2	21	147	810	● 23.5
Intermittent or moving work	533	0	13	82	438	● 24.4
Cross over/lane shift	488	3	9	66	410	● 24.6
Unknown	6				6	● 6.0

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Note: *Fatal and incapacitating injury* collision rate is calculated per 1,000 total collisions in each construction zone type.



**Figure 3.10. Indiana work zone collisions, by locale, 2014**

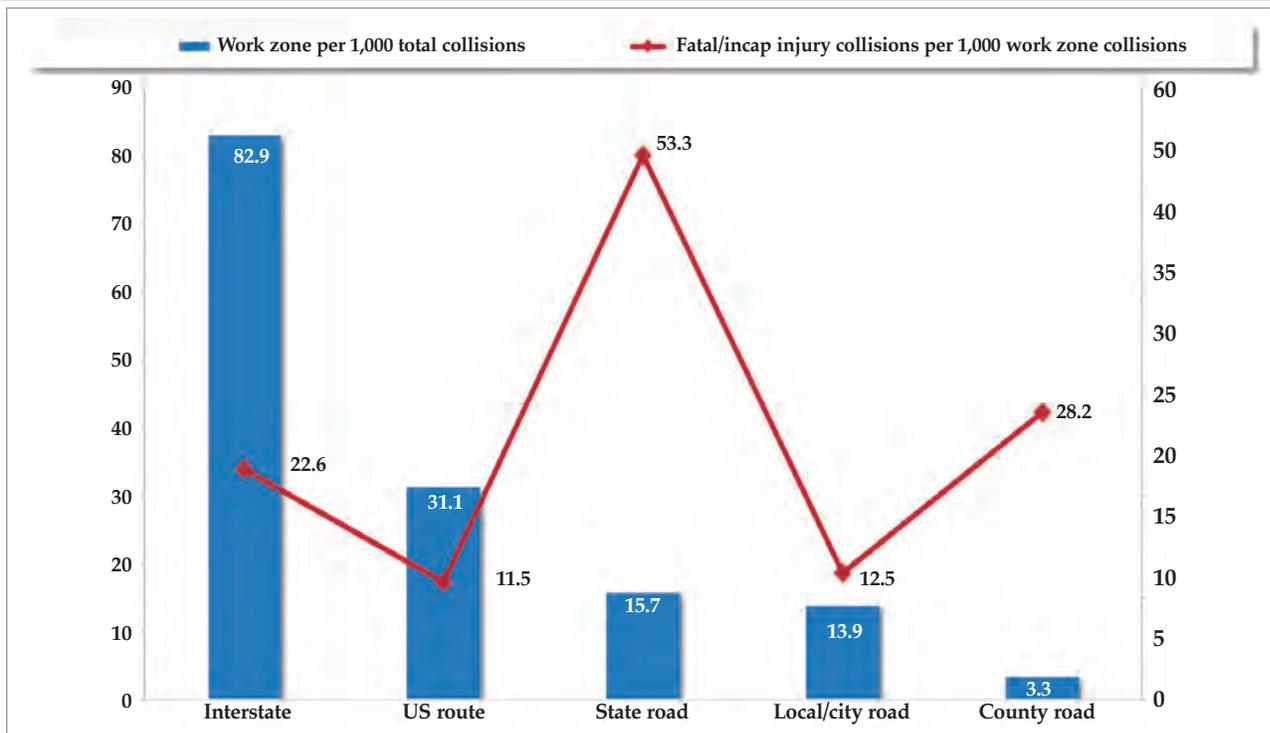


Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) Includes only collisions with valid locale reported.
- 2) See glossary for Census locale definitions.
- 3) The most recent ARIES upgrade added a clarification to reporting officers on the definition of incapacitating injuries criteria to include "transported from scene for treatment"; therefore, 2014 increases in incapacitating injuries should be interpreted with caution.

Figure 3.11. Indiana work zone collisions, by road class, 2014



Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Notes:

1) Includes only collisions with valid road class reported.

2) The most recent ARIES upgrade added a clarification to reporting officers on the definition of incapacitating injuries criteria to include "transported from scene for treatment"; therefore, 2014 increases in incapacitating injuries should be interpreted with caution.

**Table 3.13. Indiana work zone collisions, by severity and environmental conditions, 2014**

	Work zone collisions, by severity					Fatal/incap injuries per 1,000 collisions
	Total	Fatal	Incapacitating	Non-incapacitating	Property damage	
<b>All work zone collisions</b>	<b>3,979</b>	<b>10</b>	<b>75</b>	<b>547</b>	<b>3,347</b>	<b>21.4</b>
<b>By light conditions</b>						
Daylight	2,926	2	47	401	2,476	● 16.7
Dark (not lighted)	482	4	17	68	393	● 43.6
Dark (lighted)	403	3	8	63	329	● 27.3
Dawn/dusk	157	1	3	15	138	● 25.5
Unknown	11	0	0	0	11	● 0.0
<b>By weather conditions</b>						
Clear	2,682	7	44	383	2,248	● 19.0
Cloudy	839	3	18	117	701	● 25.0
Rain	353	0	9	37	307	● 25.5
Snow	54	0	0	3	51	● 0.0
Fog/smoke/smog	14	0	2	4	8	● 142.9
Sleet/hail/freezing rain	7	0	1	1	5	● 142.9
Blowing sand/soil/snow	23	0	1	1	21	● 43.5
Severe cross wind	5	0	0	1	4	● 0.0
Unknown	2	0	0	0	2	● 0.0
<b>By road surface conditions</b>						
Dry	3,296	9	57	480	2,750	● 20.0
Wet	497	1	14	52	430	● 30.2
Loose material on road	29	0	1	5	23	● 34.5
Snow/slush	77	0	1	3	73	● 13.0
Ice	54	0	1	5	48	● 18.5
Water (standing or moving)	20	0	0	2	18	● 0.0
Muddy	5	0	1	0	4	● 200.0
Unknown	1	0	0	0	1	● 0.0

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Note: *Fatal and incapacitating injury* collision rate is calculated per 1,000 total work zone collisions in each environmental condition category.



**Table 3.14. Indiana work zone collisions, by severity and traffic control type, 2014**

	Work zone collisions, by severity					Fatal/incap injuries per 1,000 collisions
	Total	Fatal	Incapacitating	Non-incapacitating	Property damage	
<b>All work zone collisions</b>	<b>3,979</b>	<b>10</b>	<b>75</b>	<b>547</b>	<b>3,347</b>	<b>21.4</b>
<b>Traffic control type</b>						
Lane Control	1,896	5	42	246	1,603	● 24.8
Traffic Control Signal	797	2	9	121	665	● 13.8
Stop Sign	153	0	4	33	116	● 26.1
Other Regulatory Sign/Marking	119	0	2	25	92	● 16.8
Person directing traffic	69	1	3	13	52	● 58.0
Yield Sign	54	0	0	3	51	● 0.0
Flashing signal/overhead beacon	37	0	1	6	30	● 27.0
No Passing Zone	37	0	2	2	33	● 54.1
Railroad crossing	7	0	0	2	5	● 0.0
Other	4	0	0	0	4	● 0.0
Roundabout Intersection	1	0	0	0	1	● 0.0
None	802	2	12	96	692	● 17.5
Unknown	3	0	0	0	3	● 0.0

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Note: *Fatal* and *incapacitating injury* collision rate is calculated per 1,000 total work zone collisions in each traffic control type category.



**CHAPTER 4**  
**VEHICLES**



## VEHICLES, 2014

The vehicle section summarizes data on motor vehicles involved in Indiana collisions in 2014. Special emphasis is given to *passenger vehicles* (*passenger cars, pickup trucks, sport utility vehicles, and vans*), *large trucks*, and *school buses*. Except as noted, motorcycles and mopeds are described in the Motorcycle section of this publication. Vehicle data are presented by collision severity, month, day of week, vehicle use, object collided with, collision primary factors, speeding and alcohol involvement, and locale.

In 2014, there were 352,587 motor vehicles involved in collisions in Indiana, a 7 percent increase from 2013 (Table 4.1). Passenger vehicles represented 94 percent of vehicles in all Indiana collisions, but only 74 percent of vehicles in fatal collisions (Table 4.2). The proportion of motorcycles and large trucks was disproportionately high in fatal collisions. Table 4.2 shows that motorcycles and large trucks represented 1 percent and 5 percent of vehicles in all collisions, and 11 percent and 14 percent in fatal collisions, respectively.

### Month and Day of Week

Between 2010 and 2014, the winter months of November, December, and January consistently had the highest number of passenger vehicles involved in total collisions, while the months with highest number of passenger vehicles in fatal collisions varied (Table 4.3). In 2014, passenger vehicle involvement in fatal collisions was highest during the month of August (101) and lowest during the month of February (48). Large truck involvement in collisions, generally, is higher during winter months and lower during spring months. In 3 out of the 5 years between 2010 and 2014, large truck involvement in all Indiana collisions was at its highest in January (Table 4.4). In both 2013 and 2014, large truck involvement in fatal collisions was highest during the month of January at 25 and 29, respectively.

When looking at passenger vehicle involvement in all collisions by days of the week, Friday was consistently the day with the highest number of passenger vehicles involved in total collisions between 2010 and 2014, and Sunday was consistently the lowest day of passenger vehicle involvement (Table 4.5). Passenger vehicle involvement in fatal collisions was less predictable. In 2014, passenger vehicle involvement in fatal collisions was highest on Thursdays (141) and lowest on Mondays (102). Large trucks, generally, follow a pattern of high involvement in both total collisions and fatal collisions during the work week and low involvement on the weekend. Sunday was consistently the day with the lowest number of large trucks involved in both total and fatal collisions between 2010 and 2014 (Table 4.6). With the exception of 2012, large truck

involvement in fatal collisions was highest on Thursdays during this same time period.

### Single- and Multi-vehicle Collisions

Passenger vehicles involved in fatal collisions were more likely to be in a single-vehicle crash than passenger vehicles involved in all collisions across all vehicle types. While 16 percent of SUVs involved in non-fatal collisions were involved in a single-vehicle crash, 34 percent of SUVs involved in fatal collisions were in a single-vehicle crash (Table 4.7). The opposite is true for large trucks. Nearly 90 percent of large trucks involved in fatal collisions were in a multi-vehicle crash.

### Use of Vehicle

Most (91 percent) vehicles involved in collisions were for personal use (Table 4.8). Overall, vehicles were involved in 3.2 fatal collisions per 1,000 collisions. Commercial use vehicles represented 13 percent of the vehicles involved in fatal collisions, but only 4 percent of vehicles involved in all collisions. Commercial use vehicles (which include large trucks) had the highest fatality rate (10.1) per 1,000 vehicles in all collision.

### Object Collided With (First)

**Note: Officers examining the full sequence of events occurring in collisions often determine that vehicles collide with more than one object in a single collision. This analysis is limited to the first object collided with as reported by the investigating officer.**

Of the 329,614 passenger vehicles involved in collisions, 265,013 (80 percent) collided with *another motor vehicle*, 15,525 (5 percent) *ran off the roadway*, and 14,302 (4 percent) collided with a *deer*. (Table 4.9). When looking at fatal collisions, 499 of 852 (59 percent) passenger vehicles collided with *another motor vehicle*, 129 (15 percent) *ran off the roadway*, and 62 (7 percent) collided with a *pedestrian*. Seventy-four percent of large trucks (12,024 of 16,330) involved in all crashes and 84 percent (132 of 157) of large trucks in fatal crashes collided with *another motor vehicle* (Table 4.10). Eighty-seven percent of school buses (779 of 898) involved in all crashes collided with *another motor vehicle*, and 2 of the 3 school buses involved in fatal crashes collided with a *pedestrian* (Table 4.11).

### Primary Factor

Eighty-four percent (154,347 of 183,342) of passenger cars in 2014 multi-vehicle crashes were involved in collisions with a primary factor (or cause) related to *driver: unsafe actions*, a rate that is consistent across all passenger vehicle types (calculated

from Table 4.12). *Pickup trucks* (67 percent), *SUVs* (60 percent), and *vans* (59 percent) were more likely to be attributable in multi-vehicle collisions with a primary contributing factor of *unsafe backing* than *passenger cars* (42 percent) (Table 4.12). Overall, pickup trucks (57 percent) had much higher rates of attributability in multi-vehicle collisions with a primary factor related to *vehicle* factors than all other passenger vehicle types.

The primary factors of *unsafe lane movement*, *following too closely*, and *unsafe backing* were the driver actions that represented the largest portions of large trucks in all crashes (Table 4.13). Nine of the 11 large trucks in multi-vehicle collisions with the *environmental* primary factor of *severe crosswinds* were reported as attributable to the cause of the crash. Primary factors related to *driver: unsafe actions* accounted for 76 percent (678 of 895) of school buses in 2014 crashes (Table 4.14). Eighty-five percent (81 of 95) of school buses were attributable in multi-vehicle collisions with a primary factor of *improper turning*.

### Speeding and Alcohol Involvement

Figures 4.1 and 4.2 illustrate the percent of vehicles speeding in 2014 crashes by vehicle type. More than 10 percent of the 3,478 motorcycles and 8 percent of the 42,824 pickup trucks in all collisions were speeding (Figure 4.1). Motorcycles (35 percent), large trucks (33 percent), and SUVs (32 percent) accounted for the highest proportions of speeding vehicles in crashes where one or more fatalities occurred in the vehicle that was speeding (Figure 4.2).

Figures 4.3 and 4.4 show the percent of vehicles with an alcohol-impaired driver in 2014 crashes by vehicle type. About 4 percent of motorcycles and 2 percent of pickup trucks in all collisions had a driver that was legally impaired (Figure 4.3). Pickup trucks (19 percent) and SUVs (16 percent) accounted for the highest proportions of vehicles in crashes with both an impaired driver and one or more fatalities occurring in the vehicle (Figure 4.4).

### Geographic Distribution and Census Locale

Passenger vehicle involvement in collisions varies by collision severity and geographic locale. In 2014, about 41 percent of passenger vehicles in fatal crashes were located in *urban* areas, compared to 78 percent of passenger vehicles in non-fatal crashes (Figure 4.5). Fatal collisions are more likely to occur in non-urban areas across all passenger vehicle types. The *rural* rate of SUV involvement in fatal collisions per 1,000 involved in all collisions was 8.6 in 2014, compared to 1.1 per 1,000 in *urban* areas (Figure 4.6).

The geographic distribution of large trucks involved in collisions is shown in Figure 4.7. In 2014, 34 percent of large trucks in fatal crashes were located in *suburban* areas, compared to 19 percent of large trucks in non-fatal crashes (Figure 4.7). When combined, *suburban*, *exurban*, and *rural* areas account for 72 percent of large trucks in fatal crashes. Large trucks have higher rates of involvement in fatal collisions than passenger vehicles across all locales. *Exurban* areas had the highest rate of large truck involvement in fatal collisions (20.3 per 1,000), compared to 4.7 per 1,000 in *urban* areas.

**Table 4.1. Vehicles involved in Indiana collisions, by vehicle type and collision severity, 2010-2014**

Collision severity/vehicle type	Count of vehicles					Annual rate of change	
	2010	2011	2012	2013	2014	2013 -14	2010-14
<b>All collisions</b>	<b>330,518</b>	<b>322,539</b>	<b>324,916</b>	<b>330,041</b>	<b>352,587</b>	<b>6.8%</b>	<b>1.6%</b>
Passenger vehicle	311,130	302,339	305,224	310,588	329,614	6.1%	1.5%
<i>Passenger car</i>	196,281	192,657	199,277	206,488	221,460	7.3%	3.1%
<i>Pickup truck</i>	46,090	44,016	41,343	40,898	42,824	4.7%	-1.8%
<i>Sport utility vehicle</i>	46,320	44,702	45,007	44,764	48,459	8.3%	1.1%
<i>Van</i>	22,439	20,964	19,597	18,438	16,871	-8.5%	-6.9%
Motorcycle	3,502	3,629	4,212	3,595	3,478	-3.3%	-0.2%
Large truck	13,333	13,947	13,105	13,315	16,330	22.6%	5.2%
School bus	820	923	768	720	898	24.7%	2.3%
Other	1,733	1,701	1,607	1,823	2,267	24.4%	6.9%
<b>Fatal</b>	<b>1,114</b>	<b>1,057</b>	<b>1,124</b>	<b>1,133</b>	<b>1,149</b>	<b>1.4%</b>	<b>0.8%</b>
Passenger vehicle	873	781	844	883	852	-3.5%	-0.6%
<i>Passenger car</i>	485	451	511	532	522	-1.9%	1.9%
<i>Pickup truck</i>	184	143	159	169	162	-4.1%	-3.1%
<i>Sport utility vehicle</i>	125	125	118	125	122	-2.4%	-0.6%
<i>Van</i>	79	62	56	57	46	-19.3%	-12.6%
Motorcycle	113	121	149	116	125	7.8%	2.6%
Large truck	115	143	126	123	157	27.6%	8.1%
School bus	3	5	1	0	3	na	0.0%
Other	10	7	4	11	12	9.1%	4.7%
<b>Non-fatal injury</b>	<b>60,381</b>	<b>57,990</b>	<b>60,160</b>	<b>57,786</b>	<b>59,868</b>	<b>3.6%</b>	<b>-0.2%</b>
Passenger vehicle	55,774	53,266	55,090	53,184	54,923	3.3%	-0.4%
<i>Passenger car</i>	35,353	34,199	35,936	35,248	36,926	4.8%	1.1%
<i>Pickup truck</i>	7,619	7,275	7,139	6,560	6,633	1.1%	-3.4%
<i>Sport utility vehicle</i>	8,512	7,998	8,390	8,032	8,420	4.8%	-0.3%
<i>Van</i>	4,290	3,794	3,625	3,344	2,944	-12.0%	-9.0%
Motorcycle	2,463	2,473	2,981	2,490	2,405	-3.4%	-0.6%
Large truck	1,811	1,932	1,741	1,765	2,136	21.0%	4.2%
School bus	87	97	83	77	91	18.2%	1.1%
Other	246	222	265	270	313	15.9%	6.2%
<b>Property damage</b>	<b>269,023</b>	<b>263,492</b>	<b>263,632</b>	<b>271,122</b>	<b>291,570</b>	<b>7.5%</b>	<b>2.0%</b>
Passenger vehicle	254,483	248,292	249,290	256,521	273,839	6.8%	1.8%
<i>Passenger car</i>	160,443	158,007	162,830	170,708	184,012	7.8%	3.5%
<i>Pickup truck</i>	38,287	36,598	34,045	34,169	36,029	5.4%	-1.5%
<i>Sport utility vehicle</i>	37,683	36,579	36,499	36,607	39,917	9.0%	1.5%
<i>Van</i>	18,070	17,108	15,916	15,037	13,881	-7.7%	-6.4%
Motorcycle	926	1,035	1,082	989	948	-4.1%	0.6%
Large truck	11,407	11,872	11,238	11,427	14,037	22.8%	5.3%
School bus	730	821	684	643	804	25.0%	2.4%
Other	1,477	1,472	1,338	1,542	1,942	25.9%	7.1

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

**Notes:**

- 1) Vehicle types reported as non-motorists (animal drawn vehicle, bicycle, and pedestrian), unknown, or NULL values are excluded.
- 2) Other vehicles include those reported as bus/seats 15+ persons with driver, bus/seats 9-15 persons with driver, combination vehicle, farm vehicle, and motor home/recreational vehicle.
- 3) Motorcycles includes vehicle types reported as motorcycle and moped.
- 4) Large trucks are defined as vehicles reported as single 2 axle, 6 tires; single 3 or more axles; truck/trailer – not semi; tractor – cab only, no trailer; tractor/one semi-trailer; tractor/double trailer; and, tractor/triple trailer.

**Table 4.2. Percent of vehicles involved in Indiana collisions, by vehicle type and collision severity, 2010-2014**

Collision severity/vehicle type	Count of vehicles					Annual rate of change	
	2010	2011	2012	2013	2014	2013 -14	2010-14
<b>All collisions</b>	<b>330,518</b>	<b>322,539</b>	<b>324,916</b>	<b>330,041</b>	<b>352,587</b>	<b>6.8%</b>	<b>1.6%</b>
Passenger vehicle	94.1%	93.7%	93.9%	94.1%	93.5%	-0.7%	-0.2%
<i>Passenger car</i>	59.4%	59.7%	61.3%	62.6%	62.8%	0.4%	1.4%
<i>Pickup truck</i>	13.9%	13.6%	12.7%	12.4%	12.1%	-2.0%	-3.4%
<i>Sport utility vehicle</i>	14.0%	13.9%	13.9%	13.6%	13.7%	1.3%	-0.5%
<i>Van</i>	6.8%	6.5%	6.0%	5.6%	4.8%	-14.3%	-8.4%
Motorcycle	1.1%	1.1%	1.3%	1.1%	1.0%	-9.4%	-1.8%
Large truck	4.0%	4.3%	4.0%	4.0%	4.6%	14.8%	3.5%
School bus	0.2%	0.3%	0.2%	0.2%	0.3%	16.7%	0.7%
Other	0.5%	0.5%	0.5%	0.6%	0.6%	16.4%	5.2%
<b>Fatal</b>	<b>1,114</b>	<b>1,057</b>	<b>1,124</b>	<b>1,133</b>	<b>1,149</b>	<b>1.4%</b>	<b>0.8%</b>
Passenger vehicle	78.4%	73.9%	75.1%	77.9%	74.2%	-4.9%	-1.4%
<i>Passenger car</i>	43.5%	42.7%	45.5%	47.0%	45.4%	-3.2%	1.1%
<i>Pickup truck</i>	16.5%	13.5%	14.1%	14.9%	14.1%	-5.5%	-3.9%
<i>Sport utility vehicle</i>	11.2%	11.8%	10.5%	11.0%	10.6%	-3.8%	-1.4%
<i>Van</i>	7.1%	5.9%	5.0%	5.0%	4.0%	-20.4%	-13.3%
Motorcycle	10.1%	11.4%	13.3%	10.2%	10.9%	6.3%	1.8%
Large truck	10.3%	13.5%	11.2%	10.9%	13.7%	25.9%	7.3%
School bus	0.3%	0.5%	0.1%	0.0%	0.3%	na	-0.8%
Other	0.9%	0.7%	0.4%	1.0%	1.0%	7.6%	3.9%
<b>Non-fatal injury</b>	<b>60,381</b>	<b>57,990</b>	<b>60,160</b>	<b>57,786</b>	<b>59,868</b>	<b>3.6%</b>	<b>-0.2%</b>
Passenger vehicle	92.4%	91.9%	91.6%	92.0%	91.7%	-0.3%	-0.2%
<i>Passenger car</i>	58.5%	59.0%	59.7%	61.0%	61.7%	1.1%	1.3%
<i>Pickup truck</i>	12.6%	12.5%	11.9%	11.4%	11.1%	-2.4%	-3.2%
<i>Sport utility vehicle</i>	14.1%	13.8%	13.9%	13.9%	14.1%	1.2%	-0.1%
<i>Van</i>	7.1%	6.5%	6.0%	5.8%	4.9%	-15.0%	-8.8%
Motorcycle	4.1%	4.3%	5.0%	4.3%	4.0%	-6.8%	-0.4%
Large truck	3.0%	3.3%	2.9%	3.1%	3.6%	16.8%	4.4%
School bus	0.1%	0.2%	0.1%	0.1%	0.2%	14.1%	1.3%
Other	0.4%	0.4%	0.4%	0.5%	0.5%	11.9%	6.4%
<b>Property damage</b>	<b>269,023</b>	<b>263,492</b>	<b>263,632</b>	<b>271,122</b>	<b>291,570</b>	<b>7.5%</b>	<b>2.0%</b>
Passenger vehicle	94.6%	94.2%	94.6%	94.6%	93.9%	-0.7%	-0.2%
<i>Passenger car</i>	59.6%	60.0%	61.8%	63.0%	63.1%	0.2%	1.4%
<i>Pickup truck</i>	14.2%	13.9%	12.9%	12.6%	12.4%	-2.0%	-3.5%
<i>Sport utility vehicle</i>	14.0%	13.9%	13.8%	13.5%	13.7%	1.4%	-0.6%
<i>Van</i>	6.7%	6.5%	6.0%	5.5%	4.8%	-14.2%	-8.2%
Motorcycle	0.3%	0.4%	0.4%	0.4%	0.3%	-10.9%	-1.4%
Large truck	4.2%	4.5%	4.3%	4.2%	4.8%	14.2%	3.2%
School bus	0.3%	0.3%	0.3%	0.2%	0.3%	16.3%	0.4%
Other	0.5%	0.6%	0.5%	0.6%	0.7%	17.1%	4.9%

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

**Notes:**

- 1) Vehicle types reported as *non-motorists (animal drawn vehicle, bicycle, and pedestrian)*, unknown, or NULL values are excluded.
- 2) Other vehicles include those reported as *bus/seats 15+ persons with driver, bus/seats 9-15 persons with driver, combination vehicle, farm vehicle, and motor home/recreational vehicle.*
- 3) Motorcycles includes vehicle types reported as *motorcycle and moped.*
- 4) Large trucks are defined as vehicles reported as *single 2 axle, 6 tires; single 3 or more axles; truck/trailer — not semi; tractor — cab only, no trailer; tractor/one semi-trailer; tractor/double trailer; and, tractor/triple trailer.*

**Table 4.3. Passenger vehicles in total and fatal traffic collisions in Indiana, by month, 2010-2014**

	Passenger vehicles in total collisions					Passenger vehicles in fatal collisions				
	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
Jan	26,270	28,733	27,080	24,673	35,990	52	62	65	79	77
Feb	26,932	25,489	22,812	22,557	30,797	66	65	60	59	48
Mar	22,054	20,771	23,937	25,297	24,560	61	44	62	71	58
Apr	23,428	22,620	22,761	22,895	23,274	80	52	52	71	57
May	25,418	24,467	26,172	26,645	26,031	59	65	66	54	60
Jun	25,407	23,790	24,580	24,747	24,706	83	59	85	52	75
Jul	24,822	23,067	23,546	24,402	24,176	86	77	87	68	68
Aug	24,732	24,850	25,849	25,510	25,751	86	74	84	81	101
Sep	24,722	24,988	24,402	25,951	25,982	58	72	74	90	71
Oct	27,408	27,921	28,567	28,391	30,360	80	83	67	83	83
Nov	27,246	28,747	25,949	28,790	29,877	89	53	61	87	67
Dec	32,691	26,896	29,569	30,730	28,110	73	75	81	88	87
<b>Total</b>	<b>311,130</b>	<b>302,339</b>	<b>305,224</b>	<b>310,588</b>	<b>329,614</b>	<b>873</b>	<b>781</b>	<b>844</b>	<b>883</b>	<b>852</b>
High	Dec	Nov	Dec	Dec	Jan	Nov	Oct	Jul	Sep	Aug
Low	Mar	Mar	Apr	Feb	Apr	Jan	Mar	Apr	Jun	Feb



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) Conditional formatting color-scales are illustrated to show months from low to high for the entire 5-year period.
- 2) Passenger vehicles are defined as *passenger cars, sport utility vehicles, pickup trucks, and vans.*

**Table 4.4. Large trucks in total and fatal traffic collisions in Indiana, by month, 2010-2014**

	Large trucks in total collisions					Large trucks in fatal collisions				
	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
Jan	1,264	1,508	1,275	1,171	2,386	10	18	10	25	29
Feb	1,345	1,379	954	924	1,800	4	8	10	8	7
Mar	900	990	1,057	1,186	1,254	11	3	6	13	12
Apr	932	924	935	978	1,114	7	8	8	12	5
May	970	1,112	1,069	1,089	1,109	9	8	12	3	15
Jun	1,074	1,218	1,122	994	1,261	7	15	13	11	13
Jul	1,120	1,030	1,090	1,088	1,174	7	14	11	8	18
Aug	1,112	1,156	1,092	1,124	1,218	12	23	13	4	12
Sep	1,053	1,114	1,059	1,080	1,208	12	9	18	10	10
Oct	1,058	1,226	1,201	1,280	1,412	15	13	10	7	12
Nov	1,039	1,212	1,070	1,145	1,281	12	13	6	11	8
Dec	1,466	1,078	1,181	1,256	1,113	9	11	9	11	16
<b>Total</b>	<b>13,333</b>	<b>13,947</b>	<b>13,105</b>	<b>13,315</b>	<b>16,330</b>	<b>115</b>	<b>143</b>	<b>126</b>	<b>123</b>	<b>157</b>
High	Dec	Jan	Jan	Oct	Jan	Oct	Aug	Sep	Jan	Jan
Low	Mar	Apr	Apr	Feb	May	Feb	Mar	Mar/Nov	May	Apr



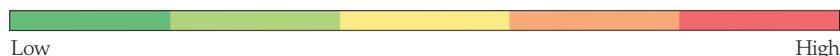
Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) Conditional formatting color-scales are illustrated to show months from low to high for the entire 5-year period.
- 2) Large trucks are defined as vehicles reported as *single 2 axle, 6 tires; single 3 or more axles; truck/trailer – not semi; tractor – cab only, no trailer; tractor/one semi-trailer; tractor/double trailer; and, tractor/triple trailer.*

**Table 4.5. Passenger vehicles in total and fatal traffic collisions in Indiana, by day of week, 2010-2014**

	Passenger vehicles in total collisions					Passenger vehicles in fatal collisions				
	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
Sun	30,530	28,883	29,293	30,141	31,292	110	112	101	132	106
Mon	44,328	43,820	43,648	43,471	45,207	113	110	110	115	102
Tue	46,008	45,521	43,942	45,810	49,983	116	128	105	141	110
Wed	46,889	43,392	44,624	46,007	49,018	110	87	114	96	121
Thur	47,320	47,309	46,571	47,683	50,829	114	114	128	124	141
Fri	55,316	53,281	56,260	56,278	59,531	164	123	133	110	133
Sat	40,739	40,133	40,886	41,198	43,754	146	107	153	165	139
<b>Total</b>	<b>311,130</b>	<b>302,339</b>	<b>305,224</b>	<b>310,588</b>	<b>329,614</b>	<b>873</b>	<b>781</b>	<b>844</b>	<b>883</b>	<b>852</b>
High	Fri	Fri	Fri	Fri	Fri	Fri	Tue	Sat	Sat	Thur
Low	Sun	Sun	Sun	Sun	Sun	Sun	Wed	Sun	Wed	Mon



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) Conditional formatting color-scales are illustrated to show months from low to high for the entire 5-year period.
- 2) Passenger vehicles are defined as *passenger cars, sport utility vehicles, pickup trucks, and vans.*

**Table 4.6. Large trucks in total and fatal traffic collisions in Indiana, by day of week, 2010-2014**

	Large trucks in total collisions					Large trucks in fatal collisions				
	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
Sun	581	554	597	681	892	6	3	12	4	9
Mon	2,277	2,265	2,154	2,287	2,617	22	23	12	24	25
Tue	2,453	2,672	2,332	2,438	2,996	17	17	20	22	20
Wed	2,420	2,625	2,386	2,293	2,987	11	28	24	14	24
Thur	2,473	2,621	2,354	2,379	2,929	25	39	21	32	41
Fri	2,253	2,245	2,402	2,258	2,651	20	25	25	18	26
Sat	876	965	880	979	1,258	14	8	12	9	12
<b>Total</b>	<b>13,333</b>	<b>13,947</b>	<b>13,105</b>	<b>13,315</b>	<b>16,330</b>	<b>115</b>	<b>143</b>	<b>126</b>	<b>123</b>	<b>157</b>
High	Thur	Tue	Fri	Tue	Tue	Thur	Thur	Fri	Thur	Thur
Low	Sun	Sun	Sun	Sun	Sun	Sun	Sun	Sun/Mon/Sat	Sun	Sun



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) Conditional formatting color-scales are illustrated to show months from low to high for the entire 5-year period.
- 2) Large trucks are defined as vehicles reported as *single 2 axle, 6 tires; single 3 or more axles; truck/trailer – not semi; tractor – cab only, no trailer; tractor/one semi-trailer; tractor/double trailer; and, tractor/triple trailer.*

**Table 4.7. Vehicles involved in fatal and non-fatal collisions, by vehicle type and number of vehicles involved, 2014**

Collision severity/ vehicles involved	Passenger car		Pickup truck		SUV		Van		Large truck	
	Count	%	Count	%	Count	%	Count	%	Count	%
<b>Fatal</b>	<b>522</b>	<b>100.0%</b>	<b>162</b>	<b>100.0%</b>	<b>122</b>	<b>100.0%</b>	<b>46</b>	<b>100.0%</b>	<b>157</b>	<b>100.0%</b>
Single-vehicle	158	30.3%	56	34.6%	41	33.6%	15	32.6%	16	10.2%
Multiple-vehicle	364	69.7%	106	65.4%	81	66.4%	31	67.4%	141	89.8%
<b>Non-fatal</b>	<b>220,938</b>	<b>100.0%</b>	<b>42,662</b>	<b>100.0%</b>	<b>48,337</b>	<b>100.0%</b>	<b>16,825</b>	<b>100.0%</b>	<b>16,173</b>	<b>100.0%</b>
Single-vehicle	36,977	16.7%	8,563	20.1%	7,812	16.2%	2,316	13.8%	3,434	21.2%
Multiple-vehicle	183,961	83.3%	34,099	79.9%	40,525	83.8%	14,509	86.2%	12,739	78.8%

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Note: Non-fatal collisions includes non-fatal injury and property damage only collisions.

**Table 4.8. Vehicles involved in Indiana collisions, by vehicle use and collision severity, 2014**

Vehicle use	Vehicles involved in:										Vehicles in fatal collisions per 1,000 in all collisions
	All collisions		Fatal collisions		Incapacitating collisions		Non- incapacitating collisions		Property damage only collisions		
	Count	% of total	Count	% of total	Count	% of total	Count	% of total	Count	% of total	
Personal	328,847	91.2%	990	84.5%	6,801	93.1%	50,011	94.3%	271,045	90.6%	3.0
Commercial	14,884	4.1%	151	12.9%	338	4.6%	1,708	3.2%	12,687	4.2%	10.1
Police	2,522	0.7%	1	0.1%	35	0.5%	301	0.6%	2,185	0.7%	0.4
Rental, not leased	1,492	0.4%	5	0.4%	25	0.3%	171	0.3%	1,291	0.4%	3.4
Other	2,266	0.6%	8	0.7%	32	0.4%	212	0.4%	2,014	0.7%	3.5
School	1,110	0.3%	4	0.3%	12	0.2%	96	0.2%	998	0.3%	3.6
Highway department	628	0.2%	2	0.2%	12	0.2%	70	0.1%	544	0.2%	3.2
Ambulance	422	0.1%	0	0.0%	2	0.0%	48	0.1%	372	0.1%	0.0
Public utilities	309	0.1%	0	0.0%	3	0.0%	15	0.0%	291	0.1%	0.0
Fire	262	0.1%	0	0.0%	5	0.1%	10	0.0%	247	0.1%	0.0
Bus, not school	360	0.1%	2	0.2%	4	0.1%	47	0.1%	307	0.1%	5.6
Military	61	0.0%	0	0.0%	1	0.0%	5	0.0%	55	0.0%	0.0
Unknown	7,553	2.1%	8	0.7%	36	0.5%	345	0.7%	7,164	2.4%	1.1
<b>Total vehicles</b>	<b>360,716</b>	<b>100.0%</b>	<b>1,171</b>	<b>100.0%</b>	<b>7,306</b>	<b>100.0%</b>	<b>53,039</b>	<b>100.0%</b>	<b>299,200</b>	<b>100.0%</b>	<b>3.2</b>

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

**Notes:**

- 1) *Unknown vehicle use* includes vehicles reported as *unknown*, blank, or invalid codes.
- 2) *Commercial use* includes buses, taxis, carriers, etc.
- 3) *Other use* includes government, postal, etc.
- 4) *Public utilities use* includes gas, electric, etc.
- 5) *Buses* includes charter, intercity, shuttles and transit.
- 6) *School* includes school buses, maintenance vehicles, etc.
- 7) Excludes bicycles, pedestrians and animal-drawn vehicle (non-motor vehicle) as vehicle types.

Table 4.9. Passenger vehicles involved in Indiana collisions, by (first) object collided with and collision severity, 2014

(First) Object collided with	Passenger vehicles involved in:				
	All collisions	Fatal collisions	Incapacitating collisions	Non-incapacitating collisions	Property damage only collisions
<b>Passenger vehicles</b>	<b>329,614</b>	<b>852</b>	<b>6,281</b>	<b>48,642</b>	<b>273,839</b>
Another motor vehicle	265,013	499	4,445	39,572	220,497
Ran off roadway	15,525	129	733	2,950	11,713
Deer	14,302	2	33	233	14,034
Other	5,052	18	94	505	4,435
Ditch	2,424	17	86	525	1,796
Parked motor vehicle	2,217	3	9	94	2,111
Utility pole	2,128	5	55	388	1,680
Tree	1,703	13	78	377	1,235
Curb	1,567	13	46	247	1,261
Other post/pole or support	1,565	1	22	157	1,385
Guardrail face	1,556	5	38	202	1,311
Pedestrian	1,440	62	256	943	179
Concrete traffic barrier	1,336	3	37	218	1,078
Animal other than deer	1,035	0	8	70	957
Wall/building/tunnel	1,029	1	15	133	880
Crossing center line/median	916	25	56	214	621
Bicycle	905	13	81	593	218
Fence	857	1	16	74	766
Embankment	841	6	24	195	616
Mailbox	816	2	14	91	709
Highway traffic sign post	646	2	7	52	585
Light/luminaire support	544	2	11	87	444
Animal drawn vehicle	456	0	11	52	393
Guardrail end	443	1	20	79	343
Thrown or falling object	398	2	7	25	364
Bridge rail	372	2	8	68	294
Cable barrier	348	0	0	23	325
Overturn/rollover	331	2	21	114	194
Equipment/mechanical failure	256	0	3	22	231
Fell from vehicle (non-collision)	255	4	7	31	213
Culvert	244	3	11	53	177
Other traffic barrier	178	1	2	22	153
Cargo/equipment shift or loss	164	0	1	8	155
Impact attenuator/crash cushion	134	1	6	33	94
Bridge pier or abutment	120	2	3	24	91
Railway vehicle/train/engine	89	4	7	21	57
Fire/explosion	80	0	0	2	78
Off roadway	76	2	2	11	61
Jackknife	73	0	0	10	63
Work zone maintenance equipment	53	1	0	8	44
Separation of units	50	1	1	3	45
Overhead sign post	40	0	0	4	36
Immersion	39	0	1	3	35
Bridge overhead structure	35	1	0	5	29
Downhill runaway	23	0	0	4	19
Bridge parapet end	18	0	0	2	16
Median barrier	14	0	0	3	11
Unknown	1,908	3	6	92	1,807

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Note: Passenger vehicles are defined as *passenger cars, sport utility vehicles, pickup trucks, and vans.*

**Table 4.10. Large trucks involved in Indiana collisions, by (first) object collided with and collision severity, 2014**

(First) Object collided with	Large trucks involved in:				
	All collisions	Fatal collisions	Incapacitating collisions	Non-incapacitating collisions	Property damage only collisions
<b>Large trucks involved in:</b>	<b>16,330</b>	<b>157</b>	<b>352</b>	<b>1,784</b>	<b>14,037</b>
Another motor vehicle	12,024	132	273	1,429	10,190
Ran off roadway	893	7	31	117	738
Other	681	2	4	33	642
Deer	298	0	1	3	294
Parked motor vehicle	231	2	0	3	226
Utility pole	184	0	0	6	178
Other post/pole or support	156	0	0	4	152
Wall/building/tunnel	146	0	0	2	144
Jackknife	137	0	1	16	120
Ditch	129	1	3	28	97
Bridge overhead structure	114	0	1	8	105
Guardrail face	111	2	2	11	96
Overturn/rollover	88	0	6	30	52
Cargo/equipment shift or loss	79	0	0	5	74
Light/luminaire support	79	0	0	0	79
Equipment/mechanical failure	74	0	4	3	67
Concrete traffic barrier	72	1	1	10	60
Fell from vehicle (non-collision)	68	0	0	2	66
Highway traffic sign post	65	0	1	3	61
Tree	50	0	0	5	45
Curb	49	0	0	5	44
Guardrail end	49	0	1	2	46
Fence	47	0	0	1	46
Crossing center line/median	43	0	3	8	32
Thrown or falling object	41	0	2	2	37
Cable barrier	37	0	0	3	34
Fire/explosion	35	0	0	1	34
Embankment	33	1	1	7	24
Pedestrian	33	7	10	15	1
Animal other than deer	26	0	0	3	23
Animal drawn vehicle	24	1	1	5	17
Overhead sign post	23	0	0	0	23
Bridge rail	20	0	1	1	18
Other traffic barrier	17	0	0	0	17
Impact attenuator/crash cushion	15	0	0	4	11
Culvert	12	0	2	1	9
Mailbox	12	0	0	0	12
Work zone maintenance equipment	10	0	0	1	9
Bridge pier or abutment	8	1	0	1	6
Railway vehicle/train/engine	8	0	0	0	8
Separation of units	8	0	0	0	8
Bicycle	7	0	1	4	2
Off roadway	5	0	0	0	5
Downhill runaway	4	0	0	2	2
Immersion	2	0	0	0	2
Bridge parapet end	1	0	0	0	1
Unknown	82	0	2	0	80

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Note: Large trucks are defined as vehicles reported as single 2 axle, 6 tires; single 3 or more axles; truck/trailer — not semi; tractor — cab only, no trailer; tractor/one semi-trailer; tractor/double trailer; and, tractor/triple trailer.

**Table 4.11. School buses involved in Indiana collisions, by (first) object collided with and collision severity, 2014**

(First) Object collided with	School buses involved in:				
	All collisions	Fatal collisions	Incapacitating collisions	Non-incapacitating collisions	Property damage only collisions
<b>School buses involved in:</b>	<b>898</b>	<b>3</b>	<b>9</b>	<b>82</b>	<b>804</b>
Another motor vehicle	779	0	8	71	700
Parked motor vehicle	16	0	0	0	16
Pedestrian	10	2	0	7	1
Wall/building/tunnel	9	0	0	0	9
Ran off roadway	8	0	0	0	8
Utility pole	8	0	0	0	8
Deer	7	0	0	0	7
Other post/pole or support	5	0	0	1	4
Tree	4	1	0	0	3
Guardrail face	3	0	0	0	3
Light/luminaire support	3	0	0	0	3
Mailbox	3	0	0	0	3
Animal drawn vehicle	2	0	0	0	2
Animal other than deer	2	0	0	0	2
Bridge overhead structure	2	0	0	1	1
Embankment	2	0	0	0	2
Fell from vehicle (non-collision)	2	0	0	1	1
Highway traffic sign post	2	0	0	0	2
Bicycle	1	0	1	0	0
Bridge, pier, or abutment	1	0	0	0	1
Curb	1	0	0	0	1
Guardrail end	1	0	0	0	1
Off roadway	1	0	0	1	0
Other traffic barrier	1	0	0	0	1
Thrown or falling object	1	0	0	0	1
Other	20	0	0	0	20
Unknown	4	0	0	0	4

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

**Table 4.12. Passenger vehicles involved in Indiana multi-vehicle collisions, by primary factor, vehicle type, and attributability, 2014**

Primary collision factor	Multi-vehicle collisions											
	Passenger cars			Pickup trucks			SUVs			Vans		
	Total	Attributable to vehicle		Total	Attributable to vehicle		Total	Attributable to vehicle		Total	Attributable to vehicle	
		Count	%		Count	%		Count	%		Count	%
<b>Passenger vehicles</b>	<b>183,342</b>	<b>88,189</b>	<b>48.1%</b>	<b>34,093</b>	<b>18,486</b>	<b>54.2%</b>	<b>40,436</b>	<b>19,661</b>	<b>48.6%</b>	<b>14,472</b>	<b>7,115</b>	<b>49.2%</b>
<b>Driver: Unsafe actions</b>	<b>154,347</b>	<b>73,799</b>	<b>47.8%</b>	<b>27,666</b>	<b>14,896</b>	<b>53.8%</b>	<b>33,984</b>	<b>16,512</b>	<b>48.6%</b>	<b>12,178</b>	<b>5,966</b>	<b>49.0%</b>
Disregard signal/reg sign	9,016	4,573	50.7%	1,536	760	49.5%	2,032	963	47.4%	820	388	47.3%
Failure to yield right of way	40,454	20,428	50.5%	6,577	3,388	51.5%	8,055	4,183	51.9%	2,926	1,474	50.4%
Following too closely	45,093	21,540	47.8%	7,027	3,579	50.9%	10,547	4,547	43.1%	3,397	1,492	43.9%
Improper lane usage	5,821	2,594	44.6%	998	455	45.6%	1,225	566	46.2%	516	272	52.7%
Improper passing	1,973	926	46.9%	482	246	51.0%	488	247	50.6%	214	104	48.6%
Improper turning	6,195	2,635	42.5%	1,247	747	59.9%	1,316	590	44.8%	526	268	51.0%
Left of center	3,699	1,876	50.7%	1,151	586	50.9%	859	378	44.0%	294	126	42.9%
Speed too fast for weather conditions	8,229	4,398	53.4%	1,725	807	46.8%	2,124	997	46.9%	662	271	40.9%
Unsafe backing	22,030	9,275	42.1%	5,130	3,451	67.3%	5,100	3,037	59.5%	2,038	1,194	58.6%
Unsafe lane movement	8,117	3844	47.4%	1,109	558	50.3%	1,405	657	46.8%	545	288	52.8%
Unsafe speed	3,447	1,581	45.9%	650	304	46.8%	778	322	41.4%	224	79	35.3%
Wrong way on one way	273	129	47.3%	34	15	44.1%	55	25	45.5%	16	10	62.5%
<b>Driver: Loss of control</b>	<b>20,303</b>	<b>9,793</b>	<b>48.2%</b>	<b>4,101</b>	<b>2,197</b>	<b>53.6%</b>	<b>4,539</b>	<b>2,196</b>	<b>48.4%</b>	<b>1,599</b>	<b>804</b>	<b>50.3%</b>
Cell phone usage	343	174	50.7%	61	24	39.3%	69	26	37.7%	18	9	50.0%
Driver distracted	5,678	2,686	47.3%	1,052	530	50.4%	1,274	563	44.2%	428	186	43.5%
Other - Driver	11,449	5,689	49.7%	2,385	1,367	57.3%	2,587	1,345	52.0%	909	498	54.8%
Other telematics in use	45	22	48.9%	7	5	71.4%	13	6	46.2%	3	0	0.0%
Overcorrecting/oversteering	1,400	621	44.4%	276	137	49.6%	330	147	44.5%	127	68	53.5%
Ran off road right	1,388	601	43.3%	320	134	41.9%	266	109	41.0%	114	43	37.7%
<b>Driver: Cognitive/physical impairment</b>	<b>1,191</b>	<b>583</b>	<b>49.0%</b>	<b>211</b>	<b>105</b>	<b>49.8%</b>	<b>248</b>	<b>100</b>	<b>40.3%</b>	<b>94</b>	<b>39</b>	<b>41.5%</b>
Alcoholic beverages	17	9	52.9%	3	2	66.7%	0	0	na	2	1	50.0%
Driver asleep or fatigued	786	403	51.3%	141	67	47.5%	151	66	43.7%	59	22	37.3%
Driver illness	383	169	44.1%	67	36	53.7%	97	34	35.1%	33	16	48.5%
Illegal drugs	5	2	40.0%	0	0	na	0	0	na	0	0	na
<b>Driver: Miscellaneous factors</b>	<b>84</b>	<b>36</b>	<b>42.9%</b>	<b>17</b>	<b>9</b>	<b>52.9%</b>	<b>14</b>	<b>6</b>	<b>42.9%</b>	<b>8</b>	<b>6</b>	<b>75.0%</b>
<b>Vehicle factors</b>	<b>3,008</b>	<b>1,143</b>	<b>38.0%</b>	<b>955</b>	<b>546</b>	<b>57.2%</b>	<b>671</b>	<b>242</b>	<b>36.1%</b>	<b>259</b>	<b>99</b>	<b>38.2%</b>
Accelerator failure or defective	104	40	38.5%	27	15	55.6%	31	11	35.5%	6	2	33.3%
Brake failure or defective	1,164	510	43.8%	348	197	56.6%	289	114	39.4%	102	41	40.2%
Engine failure or defective	75	33	44.0%	17	8	47.1%	11	3	27.3%	7	3	42.9%
Headlight defective or not on	68	32	47.1%	9	3	33.3%	8	3	37.5%	4	2	50.0%
Insecure/leaky load	250	35	14.0%	179	137	76.5%	47	7	14.9%	31	3	9.7%
Other - Vehicle	894	316	35.3%	230	110	47.8%	191	75	39.3%	73	32	43.8%
Other lights defective	21	8	38.1%	10	5	50.0%	7	2	28.6%	1	0	0.0%
Oversize/overweight load	24	3	12.5%	16	6	37.5%	3	0	0.0%	4	1	25.0%
Steering failure	118	55	46.6%	14	6	42.9%	23	6	26.1%	6	4	66.7%
Tire failure or defective	274	109	39.8%	86	45	52.3%	52	18	34.6%	23	11	47.8%
Tow hitch failure	16	2	12.5%	19	14	73.7%	9	3	33.3%	2	0	0.0%
<b>Environmental factors</b>	<b>4,409</b>	<b>2,835</b>	<b>64.3%</b>	<b>1,143</b>	<b>733</b>	<b>64.1%</b>	<b>980</b>	<b>605</b>	<b>61.7%</b>	<b>334</b>	<b>201</b>	<b>60.2%</b>
Animal on roadway	590	432	73.2%	113	68	60.2%	98	79	80.6%	43	27	62.8%
Glare	11	6	54.5%	0	0	na	1	0	0.0%	0	0	na
Holes/ruts in surface	25	14	56.0%	6	3	50.0%	7	3	42.9%	4	1	25.0%
Lane marking obscured	15	10	66.7%	8	6	75.0%	2	2	100.0%	0	0	na
Obstruction not marked	38	17	44.7%	12	5	41.7%	8	4	50.0%	3	1	33.3%
Other - Environment	526	308	58.6%	139	93	66.9%	113	66	58.4%	33	19	57.6%
Roadway surface condition	2,441	1,624	66.5%	700	461	65.9%	583	351	60.2%	196	119	60.7%
Severe crosswinds	20	13	65.0%	1	0	0.0%	6	6	100.0%	2	1	50.0%
Shoulder defective	0	0	na	0	0	na	0	0	na	0	0	na
Traffic control problem	54	42	77.8%	6	5	83.3%	10	8	80.0%	3	2	66.7%
View obstructed	689	369	53.6%	158	92	58.2%	152	86	56.6%	50	31	na

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015



Notes:

- 1) Primary factor numbers represent counts of vehicles, involved in collisions in each primary factor category. Note that in multi-vehicle collisions, more than one vehicle may be *attributable*, meaning that the reported vehicle contributing circumstance matches the primary factor.
- 2) See glossary for definition of *primary factors* and *attributability*.
- 3) Excludes primary factors reported as *unknown*.

**Table 4.13. Large trucks involved in Indiana collisions, by primary factor, type of collision, and collision severity, 2014**

Primary collision factor	Large trucks involved in:							
	All collisions	Single-vehicle collisions	Multi-vehicle collisions					
			Total	Attributable to vehicle		Fatal/incap collisions	Attributable to vehicle	
			Count	%		Count	%	
<b>Large trucks</b>	<b>16,312</b>	<b>3,448</b>	<b>12,864</b>	<b>6,668</b>	<b>51.8%</b>	<b>430</b>	<b>119</b>	<b>27.7%</b>
<b>Driver: Unsafe actions</b>	<b>11,537</b>	<b>1,234</b>	<b>10,303</b>	<b>5,197</b>	<b>50.4%</b>	<b>363</b>	<b>102</b>	<b>28.1%</b>
Unsafe lane movement	1,771	79	1,692	911	53.8%	45	17	37.8%
Following too closely	1,763	29	1,734	881	50.8%	47	16	34.0%
Unsafe backing	1,754	185	1,569	1,045	66.6%	4	2	50.0%
Improper turning	1,425	336	1,089	723	66.4%	3	2	66.7%
Failure to yield right of way	1,392	11	1,381	570	41.3%	62	23	37.1%
Speed too fast for weather conditions	1,346	374	972	243	25.0%	49	8	16.3%
Improper lane usage	699	56	643	368	57.2%	9	2	22.2%
Disregard signal/reg sign	379	40	339	146	43.1%	40	16	40.0%
Left of center	362	9	353	134	38.0%	53	8	15.1%
Unsafe speed	335	110	225	72	32.0%	38	8	21.1%
Improper passing	290	5	285	98	34.4%	6	0	0.0%
Wrong way on one way	21	0	21	6	28.6%	7	0	0.0%
<b>Driver: Loss of control</b>	<b>2,627</b>	<b>1,167</b>	<b>1,460</b>	<b>835</b>	<b>57.2%</b>	<b>39</b>	<b>9</b>	<b>23.1%</b>
Other - Driver	1,239	314	925	625	67.6%	13	3	23.1%
Ran off road right	790	689	101	37	36.6%	10	1	10.0%
Overcorrecting/oversteering	302	99	203	87	42.9%	2	0	0.0%
Driver distracted	278	64	214	85	39.7%	11	4	36.4%
Cell phone usage	17	0	17	1	5.9%	3	1	33.3%
Other telematics in use	1	1	0	0	na	0	0	na
<b>Driver: Cognitive/physical impairment</b>	<b>158</b>	<b>36</b>	<b>122</b>	<b>12</b>	<b>9.8%</b>	<b>11</b>	<b>3</b>	<b>27.3%</b>
Driver asleep or fatigued	120	24	96	7	7.3%	5	1	20.0%
Driver illness	35	12	23	5	21.7%	6	2	33.3%
Alcoholic beverages	3	0	3	0	0.0%	0	0	na
Illegal drugs	0	0	0	0	na	0	0	na
<b>Driver: Miscellaneous factors</b>	<b>25</b>	<b>20</b>	<b>5</b>	<b>4</b>	<b>80.0%</b>	<b>2</b>	<b>1</b>	<b>50.0%</b>
<b>Vehicle factors</b>	<b>853</b>	<b>354</b>	<b>499</b>	<b>326</b>	<b>65.3%</b>	<b>5</b>	<b>0</b>	<b>0.0%</b>
Other - Vehicle	231	94	137	84	61.3%	1	0	0.0%
Tire failure or defective	165	50	115	74	64.3%	2	0	0.0%
Insecure/leaky load	160	38	122	100	82.0%	0	0	na
Oversize/overweight load	119	100	19	16	84.2%	0	0	na
Brake failure or defective	114	37	77	41	53.2%	1	0	0.0%
Steering failure	21	10	11	3	27.3%	0	0	na
Engine failure or defective	20	14	6	3	50.0%	0	0	na
Tow hitch failure	14	7	7	4	57.1%	0	0	na
Accelerator failure or defective	6	3	3	1	33.3%	0	0	na
Headlight defective or not on	2	0	2	0	0.0%	1	0	0.0%
Other lights defective	1	1	0	0	na	0	0	na
<b>Environmental factors</b>	<b>1,112</b>	<b>637</b>	<b>475</b>	<b>294</b>	<b>61.9%</b>	<b>10</b>	<b>4</b>	<b>40.0%</b>
Animal on roadway	498	394	104	49	47.1%	6	3	50.0%
Roadway surface condition	281	81	200	125	62.5%	3	0	0.0%
Other - Environment	159	82	77	57	74.0%	0	0	na
View obstructed	92	23	69	44	63.8%	1	1	100.0%
Severe crosswinds	44	33	11	9	81.8%	0	0	na
Obstruction not marked	27	19	8	6	75.0%	0	0	na
Holes/ruts in surface	4	2	2	1	50.0%	0	0	na
Lane marking obscured	4	1	3	2	66.7%	0	0	na
Traffic control problem	2	1	1	1	100.0%	0	0	na
Shoulder defective	1	1	0	0	na	0	0	na
Glare	0	0	0	0	na	0	0	na

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015



**Notes:**

- 1) Primary factor numbers represent counts of vehicles, involved in collisions in each primary factor category. Note that in multi-vehicle collisions, more than one vehicle may be *attributable*, meaning that the reported vehicle contributing circumstance matches the primary factor.
- 2) See glossary for definition of *primary factors* and *attributability*.
- 3) Excludes primary factors reported as *unknown*.

Table 4.14. School buses involved in Indiana collisions, by primary factor, type of collision, and collision severity, 2014

Primary collision factor	School buses involved in:							
	All collisions	Single-vehicle collisions	Multi-vehicle collisions				Fatal/incap collisions	Count attributable to school bus
			Total	Attributable to school bus				
				Count	%			
<b>School buses</b>	<b>895</b>	<b>81</b>	<b>814</b>	<b>449</b>	<b>55.2%</b>	<b>9</b>	<b>4</b>	
<b>Driver: Unsafe actions</b>	<b>678</b>	<b>42</b>	<b>636</b>	<b>326</b>	<b>51.3%</b>	<b>7</b>	<b>2</b>	
Failure to yield right of way	121	6	115	56	48.7%	2	1	
Following too closely	109	0	109	22	20.2%	1	0	
Improper turning	107	12	95	81	85.3%	0	0	
Unsafe backing	97	9	88	64	72.7%	0	0	
Speed too fast for weather conditions	62	2	60	2	3.3%	1	0	
Improper lane usage	39	0	39	30	76.9%	0	0	
Left of center	37	0	37	17	45.9%	1	0	
Improper passing	36	0	36	30	83.3%	0	0	
Unsafe lane movement	34	3	31	19	61.3%	0	0	
Disregard signal/reg sign	17	0	17	4	23.5%	2	1	
Unsafe speed	10	2	8	0	0.0%	0	0	
Ran off road right	9	8	1	1	100.0%	0	0	
<b>Driver: Loss of control</b>	<b>36</b>	<b>7</b>	<b>29</b>	<b>17</b>	<b>58.6%</b>	<b>1</b>	<b>1</b>	
Overcorrecting/oversteering	18	5	13	12	92.3%	0	0	
Driver distracted	17	2	15	5	33.3%	1	1	
Other telematics in use	1	0	1	0	0.0%	0	0	
<b>Driver: Cognitive/physical impairment</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0</b>	
Driver asleep or fatigued	2	0	2	0	0.0%	0	0	
Driver illness	1	0	1	0	0.0%	0	0	
<b>Driver: Miscellaneous factors</b>	<b>99</b>	<b>17</b>	<b>82</b>	<b>67</b>	<b>81.7%</b>	<b>1</b>	<b>1</b>	
<b>Vehicle factors</b>	<b>41</b>	<b>2</b>	<b>39</b>	<b>23</b>	<b>59.0%</b>	<b>0</b>	<b>0</b>	
Roadway surface condition	22	1	21	13	61.9%	0	0	
Brake failure or defective	2	0	2	0	0.0%	0	0	
Oversize/overweight load	2	1	1	1	100.0%	0	0	
Insecure/leaky load	1	0	1	0	0.0%	0	0	
Other - Vehicle	14	0	14	9	64.3%			
<b>Environmental factors</b>	<b>38</b>	<b>13</b>	<b>25</b>	<b>16</b>	<b>64.0%</b>	<b>0</b>	<b>0</b>	
Animal on roadway	12	10	2	2	100.0%	0	0	
View obstructed	9	1	8	4	50.0%	0	0	
Glare	2	0	2	0	0.0%	0	0	
Obstruction not marked	1	0	1	1	100.0%	0	0	
Severe crosswinds	1	1	0	0	na	0	0	
Other - Environmental	13	1	12	9	75.0%			

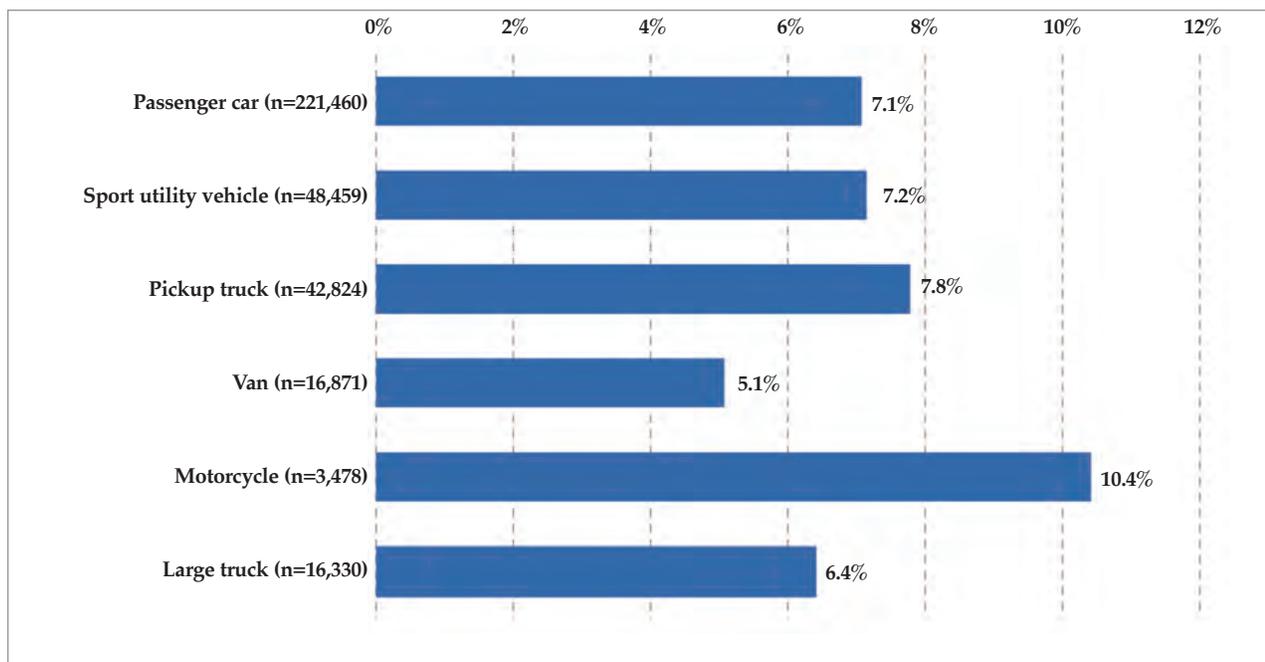
Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015



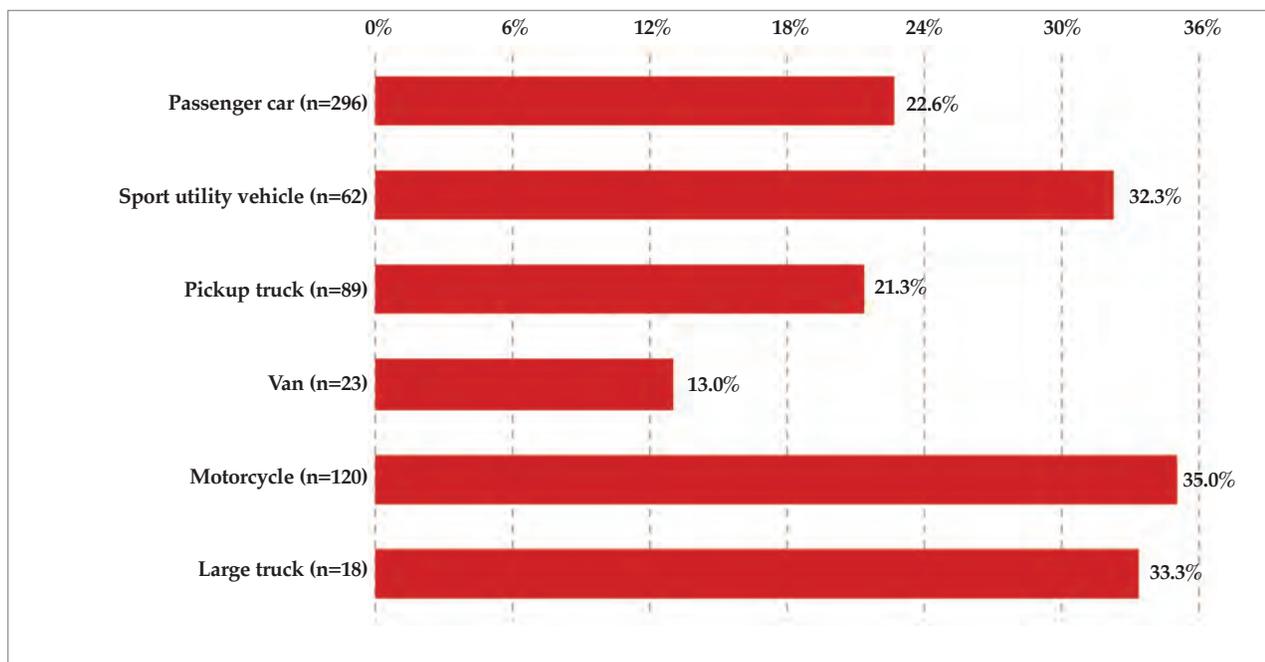
Notes:

- 1) Primary factor numbers represent counts of vehicles, involved in collisions in each primary factor category. Note that in multi-vehicle collisions, more than one vehicle may be *attributable*, meaning that the reported vehicle contributing circumstance matches the primary factor.
- 2) See glossary for definition of *primary factors* and *attributability*.
- 3) Excludes primary factors reported as *unknown*.

**Figure 4.1. Percent of vehicles speeding in Indiana collisions, by vehicle type, 2014**



**Figure 4.2. Percent of vehicles with one or more fatalities in Indiana collisions that were speeding, by vehicle type, 2014**



(Applies to Figures 4.1 and 4.2)

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

**Notes:**

- 1) Large trucks are defined as vehicles reported as single 2 axle, 6 tires; single 3 or more axles; truck/trailer – not semi; tractor – cab only, no trailer; tractor/one semi-trailer; tractor/double trailer; and, tractor/triple trailer.
- 2) Motorcycles includes vehicle types reported as motorcycle and moped.
- 3) Vehicle types reported as non-motorists (animal-drawn vehicle, bicycle, and pedestrian), bus/seats 15+ persons with driver, bus/seats 9-15 persons with driver, combination vehicle, farm vehicle, motor home/recreational vehicle, unknown, or NULL values are excluded.
- 4) Passenger vehicles are defined as passenger cars, sport utility vehicles, pickup trucks, and vans.

Figure 4.3. Percent of vehicles with an alcohol-impaired driver in Indiana collisions, by vehicle type, 2014

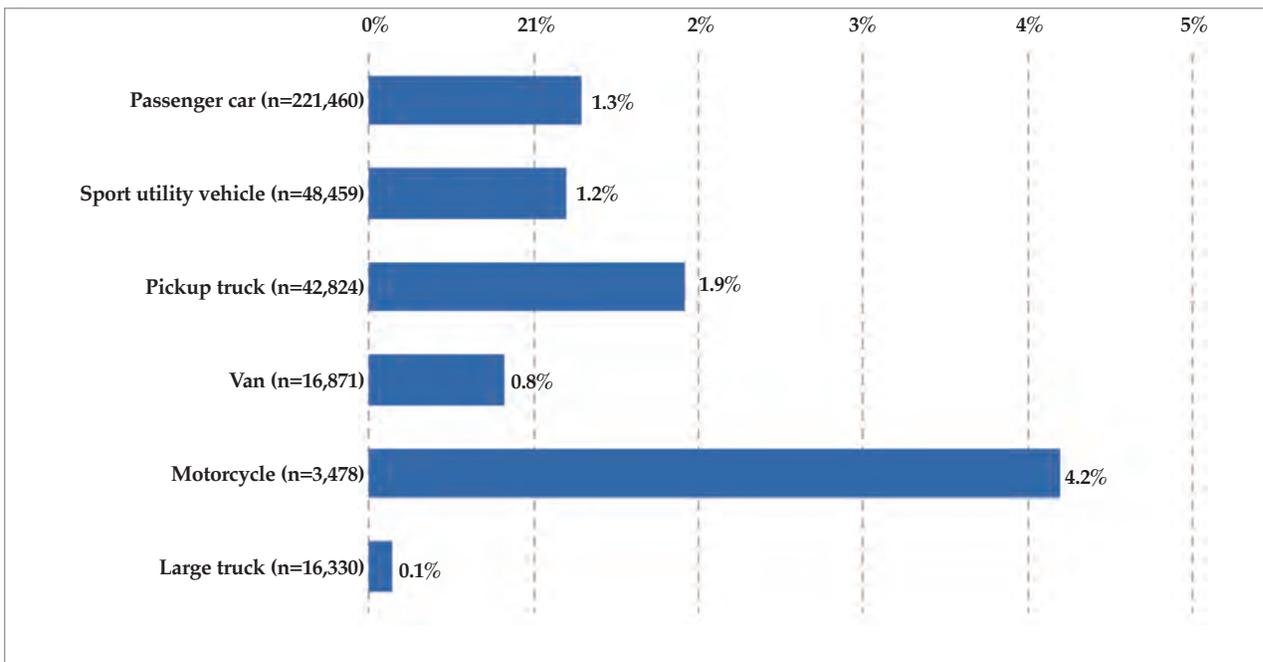
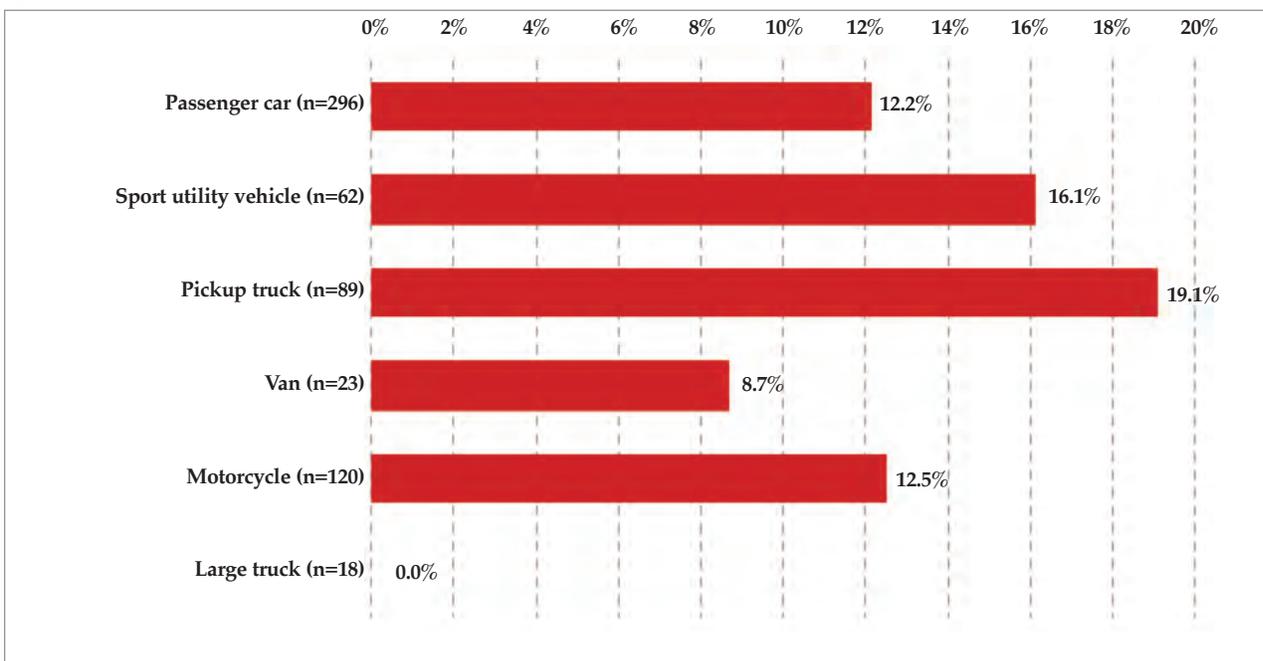


Figure 4.4. Percent of vehicles with one or more fatalities in Indiana collisions that involved an alcohol-impaired driver, by vehicle type, 2014



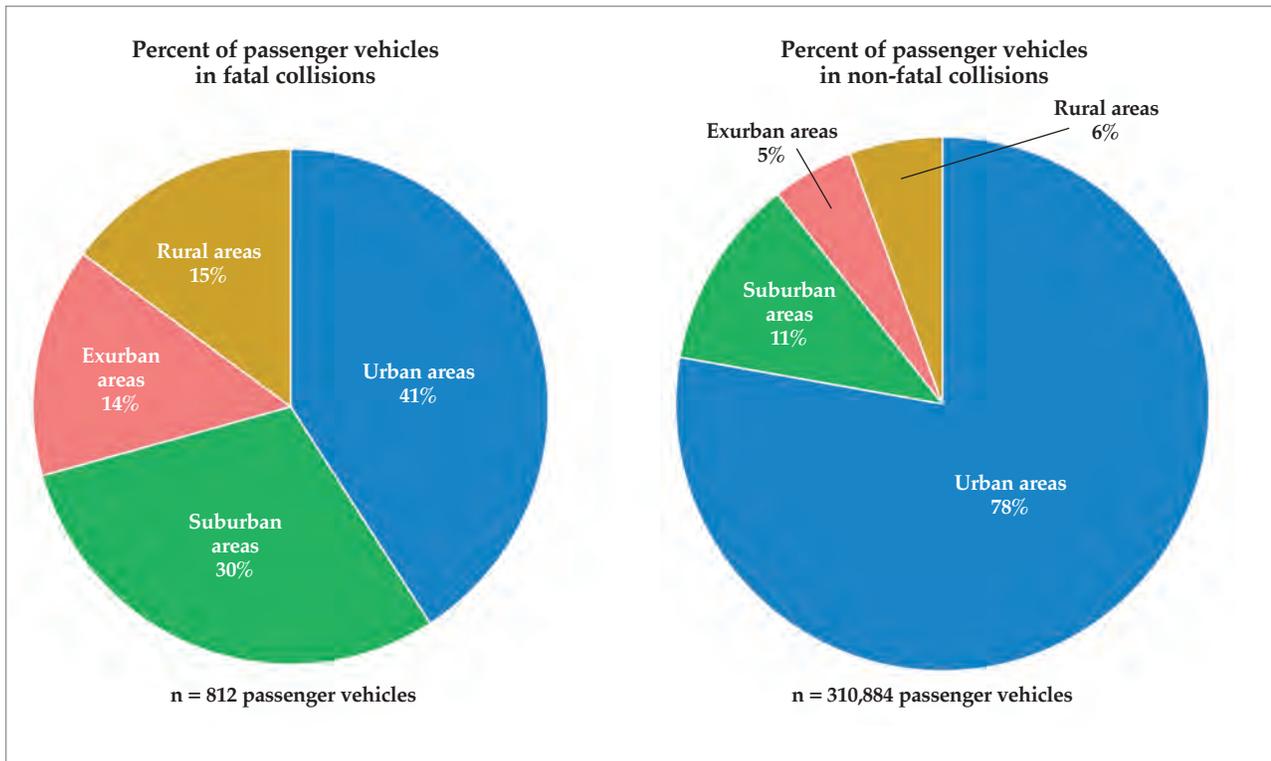
(Applies to Figures 4.3 and 4.4)

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) Large trucks are defined as vehicles reported as single 2 axle, 6 tires; single 3 or more axles; truck/trailer – not semi; tractor – cab only, no trailer; tractor/one semi-trailer; tractor/double trailer; and, tractor/triple trailer.
- 2) Motorcycles includes vehicle types reported as motorcycle and moped.
- 3) Vehicle types reported as non-motorists (animal-drawn vehicle, bicycle, and pedestrian), bus/seats 15+ persons with driver, bus/seats 9-15 persons with driver, combination vehicle, farm vehicle, motor home/recreational vehicle, unknown, or NULL values are excluded.
- 4) Passenger vehicles are defined as passenger cars, sport utility vehicles, pickup trucks, and vans.

Figure 4.5. Geographic distribution of passenger vehicles in Indiana fatal and non-fatal collisions, by Census locale, 2014



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) *Non-fatal* collisions includes *non-fatal injury* and *property damage only* collisions.
- 2) Excludes cases where locale could not be determined.
- 3) See glossary for Census locale definitions.
- 4) Passenger vehicles are defined as *passenger cars*, *sport utility vehicles*, *pickup trucks*, and *vans*.

Figure 4.6. Rates of passenger vehicle involvement in fatal collisions, by Census locale and vehicle type, 2014

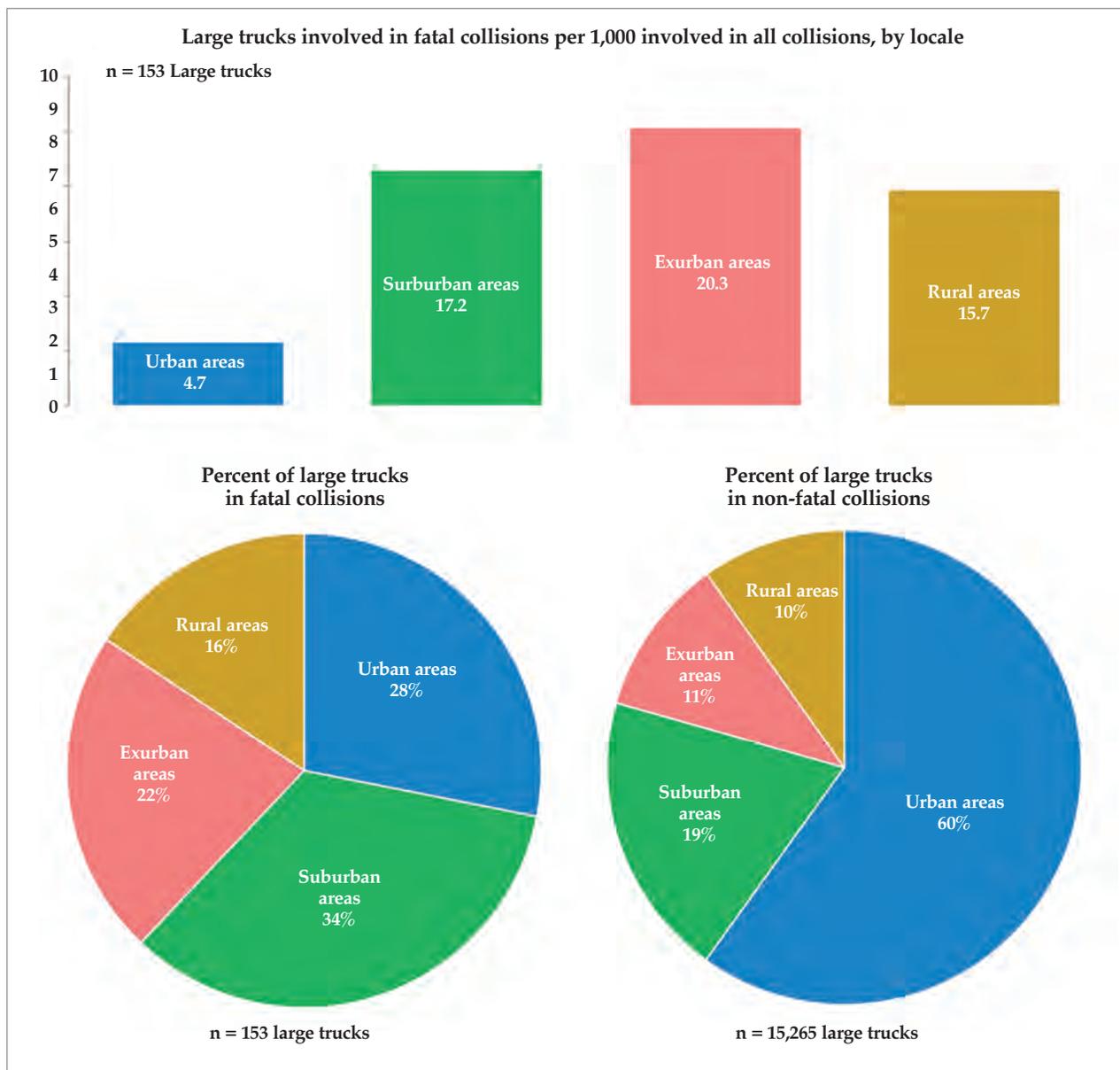


Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) Excludes cases where locale could not be determined.
- 2) See glossary for Census locale definitions.
- 3) Passenger vehicles are defined as *passenger cars, sport utility vehicles, pickup trucks, and vans.*

Figure 4.7. Fatality rates and geographic distribution of large trucks in fatal and non-fatal Indiana collisions, by Census locale, 2014



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) *Non-fatal collisions includes non-fatal injury and property damage only collisions.*
- 2) *Excludes cases where locale could not be determined.*
- 3) *See glossary for Census locale definitions.*
- 4) *Large trucks are defined as vehicles reported as single 2 axle, 6 tires; single 3 or more axles; truck/trailer – not semi; tractor – cab only, no trailer; tractor/one semi-trailer; tractor/double trailer; and, tractor/triple trailer.*



CHAPTER 5  
**MOTORCYCLES**



## MOTORCYCLES, 2014

### Single- and Multi-vehicle Collisions

While traffic collisions *not* involving motorcycles increased nearly 7 percent in 2014, collisions involving motorcycles decreased 3 percent from 2013 to 2014 (Table 5.1). Conversely, while *fatal collisions* not involving motorcycles decreased 3 percent in 2014, fatal motorcycle collisions increased 8 percent, from 114 in 2013 to 123 in 2014. (Unless specified otherwise, *motorcycles* include *mopeds*.) Each year from 2010 to 2014, there were more *multi-vehicle* (MV) than *single-vehicle* (SV) motorcycle collisions. SV collision *injury* rates are higher than MV rates (calculated from Table 5.1).

### Month, Day, and Time

Motorcycle collisions occur at somewhat predictable times, months, and days. In 2014, the count of injury collisions involving motorcycles generally peaked from 3pm to 6pm, while the proportion of all injury collisions that involved motorcycles peaked around 10pm (Figure 5.1). Counts of fatal and incapacitating collisions involving motorcycles were highest during May through September (Figure 5.2), and were typically highest on the weekends (from 6pm Friday to 5:59 am Monday) (Figure 5.3).

### Collision Characteristics

Injury rates in motorcycle collisions are associated with different collision characteristics. As in previous years, motorcycle collisions in 2014 occurred predominately during *clear weather conditions*, on *straight/level* roads not involving *road junctions*, and on *local/city roads*. The probability of fatal motorcycle collisions was highest on *interstates* (7 percent), *county roads* (6 percent), and *curves* (6 percent). The highest probability of a fatal collision involving one or more motorcycles by type of road junction was on *interchange/ramp* road junctions (11 percent) (Table 5.2).

### Non-motorist Involvement

In 2014, a total of 207 traffic units (i.e., vehicles and/or non-motorists) were involved in fatal motorcycle collisions, while 3,636 traffic units were involved in non-fatal collisions involving motorcycles. Motorcycles comprised roughly two-thirds of involved vehicles, with the other one-third involving predominantly passenger vehicles (Figure 5.4).

### Primary Factor

In MV motorcycle collisions, there is a difference between the likelihood the motorcycle or the other vehicle was at fault (i.e., a vehicle's *contributing circumstance* matched the *primary factor* in the collision—referred to in Table 5.3 as being *attributable*). In 2014, MV collisions involving motorcycles most frequently involved some type of *unsafe action* by either or both the motor-

cyclist and/or the *other vehicle* driver. Overall in 2014, other vehicles were somewhat more likely to be *attributable* (58 percent were *attributable*) than the *motorcycles* (42 percent were *attributable*). However, certain collisions involving selected primary factors were more likely to be the fault of motorcyclists in MV motorcycle collisions in 2014, including *unsafe speed*, *improper passing*, and *speed too fast for weather conditions* (Table 5.3).

### Speed Involvement

When collisions occur involving motorcycles and other vehicles, motorcycles are considerably more likely to be speeding (Table 5.4). Motorcycles were speeding in about 17 percent of SV collisions, but only about 5 percent of MV collisions.. Examining only MV collisions, motorcycles are more likely than other involved vehicles to be categorized as *speeding*.

### Alcohol Involvement and Motorcyclist Injuries

From 2010 to 2012, the likelihood of alcohol impairment was typically higher for motorcyclists than other involved drivers (Figure 5.5). However, in 2013 and 2014, collision-involved motorcycle operators were no more likely than the drivers of other vehicles (in non-motorcycle collisions) to be impaired. The steep decline in motorcycle operator impairment from 2012 to 2013/2014 should be interpreted with caution, and may be linked to non-reporting or late reporting of drug and alcohol tests in the March 25, 2015, version of ARIES. For example, considering all drivers in fatal and incapacitating injury collisions in 2014, less than 15 percent had an actual alcohol test result reported in ARIES as of March 25, 2015 (not shown in exhibits).

From 2013 to 2014, the number of motorcyclists killed increased 5 percent, from 119 to 125, and the count of riders with incapacitating injuries actually decreased 4 percent, from 575 to 551. In 2013 and 2014, the fatal and incapacitating injury rate for motorcyclists was 18 percent. Overall in 2014, about 76 percent motorcycle riders in collisions experienced some type of injury or death (Table 5.5).

Among the 125 motorcyclist fatalities in 2014, 77 occurred in MV collisions (in which 8 percent of the motorcycles were driven by an alcohol-impaired operator), and 48 in SV collisions (in which 19 percent of the motorcycles were operated by alcohol-impaired drivers) (Table 5.6). In terms of *blood alcohol content* (BAC) results, the number of motorcycle operators with a BAC of 0.08 g/dL or more increased from 46 in 2013 to 50 in 2014. Over the five-year period, the number of operators with 0.15 BAC and greater grew annually by less than one percent.

BAC and greater grew annually by less than one percent. Among the reported BAC results each year from 2010 to 2014, anywhere from 37 percent to more than 50 percent of motorcycle operators were in excess of 0.08 BAC (Table 5.7). The count of motorcycle operators in fatal and incapacitating injury collisions with *reported* BAC results in ARIES declined sharply from 2012 to 2014.

**Helmet Use**

Among motorcyclists involved in Indiana collisions, helmet use is typically associated with lower fatality and injury rates. However, most collision-involved riders are not wearing helmets (Table 5.8 and Figure 5.6). Of the 125 motorcycle fatalities in 2014, only 27 (22 percent) were reported to be wearing helmets. Among only motorcyclists for whom helmet use and age were known, those without helmets experienced higher fatal

(3.2 percent) and incapacitating injury rates (15.7 percent) than those wearing helmets (2.8 percent and 11.6 percent, respectively). Fatal and incapacitating injury rates were lower for helmeted riders than for unhelmeted riders.

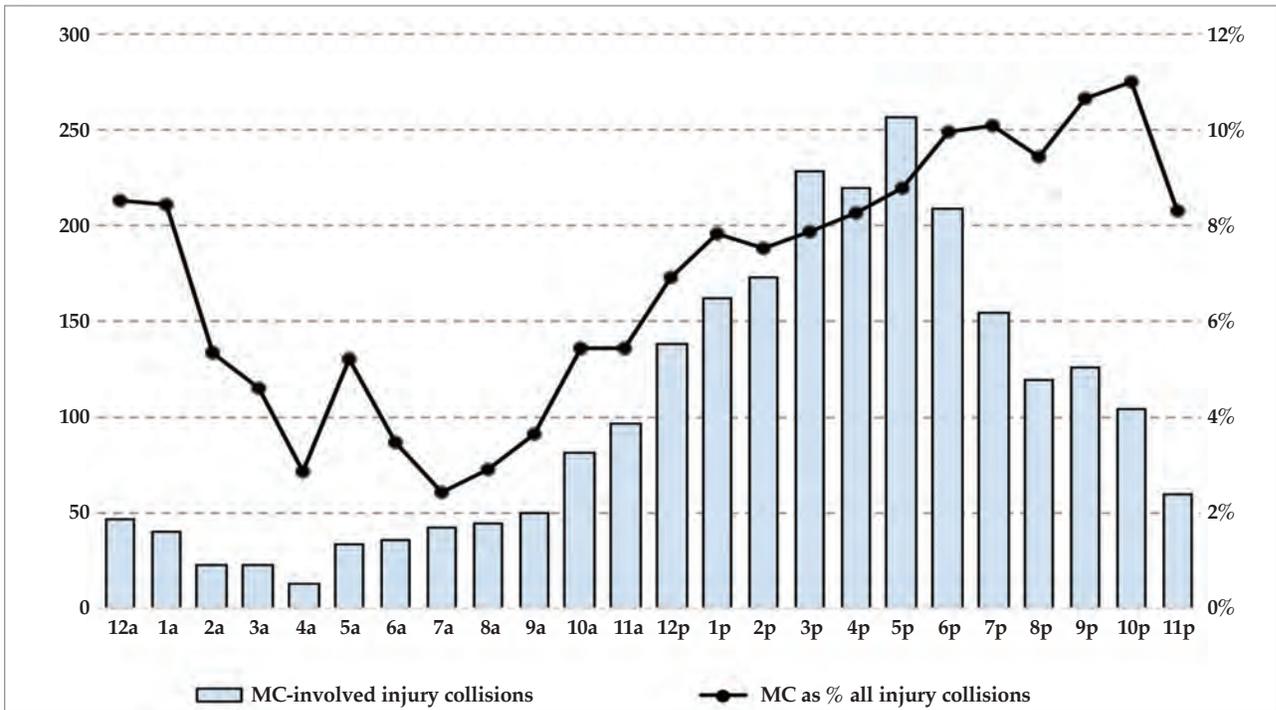
Considering all injuries sustained by motorcyclists, injuries to *helmeted* and *unhelmeted* riders do not vary much by nature, but do vary by injury location (Table 5.9). In 2014, unhelmeted riders experienced injuries to the *neck and above* 35 percent of the time, compared to 30 percent of the time for riders with helmets. *Helmeted* riders were reported with proportionately more injuries to the *entire body* (34 percent) and *torso* (13 percent) than were unhelmeted riders (10 percent for both). In terms of fatalities, however, far more unhelmeted riders are killed (Table 5.10). Among the 125 motorcyclist fatalities in 2014, there were 68 (69 percent) unhelmeted riders with injuries to the *neck or above*.

**Table 5.1. Number of collisions, by motorcycle (MC) involvement, severity, and collision type, 2010-2014**

	Count of collisions					Annual rate of change	
	2010	2011	2012	2013	2014	2013-14	2010-14
<b>All collisions</b>	<b>193,379</b>	<b>188,453</b>	<b>189,160</b>	<b>193,205</b>	<b>205,532</b>	<b>6.4%</b>	<b>1.5%</b>
<b>MC involved</b>	<b>3,436</b>	<b>3,556</b>	<b>4,111</b>	<b>3,524</b>	<b>3,407</b>	<b>-3.3%</b>	<b>-0.2%</b>
Fatal	110	117	146	114	123	7.9%	2.8%
Incapacitating	493	511	583	536	521	-2.8%	1.4%
Non-incapacitating	1,922	1,915	2,316	1,906	1,832	-3.9%	-1.2%
Property damage	911	1,013	1,066	968	931	-3.8%	0.5%
<b>Multi-vehicle</b>	<b>1,876</b>	<b>1,985</b>	<b>2,340</b>	<b>2,031</b>	<b>1,945</b>	<b>-4.2%</b>	<b>0.9%</b>
Fatal	61	63	83	62	74	19.4%	4.9%
Incapacitating	235	259	268	290	257	-11.4%	2.3%
Non-incapacitating	942	931	1,201	975	934	-4.2%	-0.2%
Property damage	638	732	788	704	680	-3.4%	1.6%
<b>Single-vehicle</b>	<b>1,560</b>	<b>1,571</b>	<b>1,771</b>	<b>1,493</b>	<b>1,462</b>	<b>-2.1%</b>	<b>-1.6%</b>
Fatal	49	54	63	52	49	-5.8%	0.0%
Incapacitating	258	252	315	246	264	7.3%	0.6%
Non-incapacitating	980	984	1,115	931	898	-3.5%	-2.2%
Property damage	273	281	278	264	251	-4.9%	-2.1%
<b>No MC involved</b>	<b>189,943</b>	<b>184,897</b>	<b>185,049</b>	<b>189,681</b>	<b>202,125</b>	<b>6.6%</b>	<b>1.6%</b>
Fatal	590	558	574	596	579	-2.9%	-0.5%
Incapacitating	2,426	2,355	2,657	2,401	3,897	62.3%	12.6%
Non-incapacitating	29,306	28,008	28,576	28,003	27,573	-1.5%	-1.5%
Property damage	157,621	153,976	153,242	158,681	170,076	7.2%	1.9%

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Figure 5.1. Motorcycle (MC) involved injury collisions in Indiana, by hour of the day, 2014

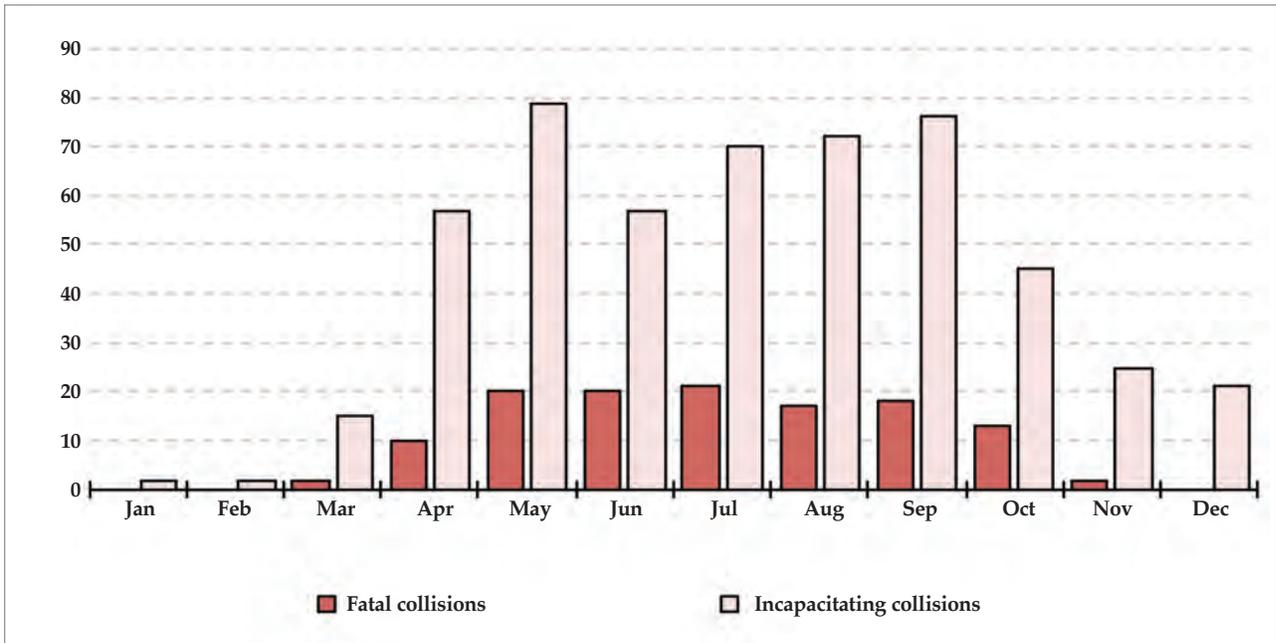


Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Notes:

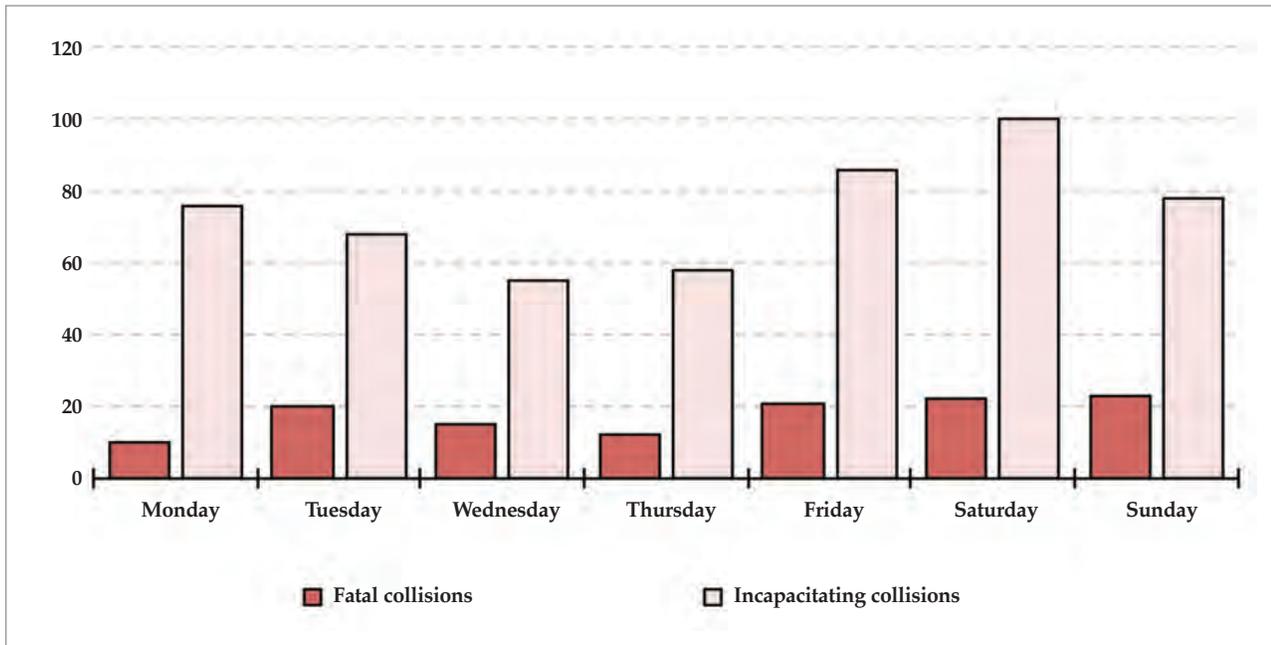
- 1) Excludes collisions where *hour* or *injury status* was unknown or not reported.
- 2) *Injury collisions* include those with at least one *fatal*, *incapacitating*, or *non-incapacitating* injury.

Figure 5.2. Fatal and incapacitating collisions involving motorcycles, by month, 2014



Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

**Figure 5.3. Fatal and incapacitating collisions involving motorcycles, by weekday, 2014**



Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

**Table 5.2. Characteristics of motorcycle collisions, by severity of collision, 2014**

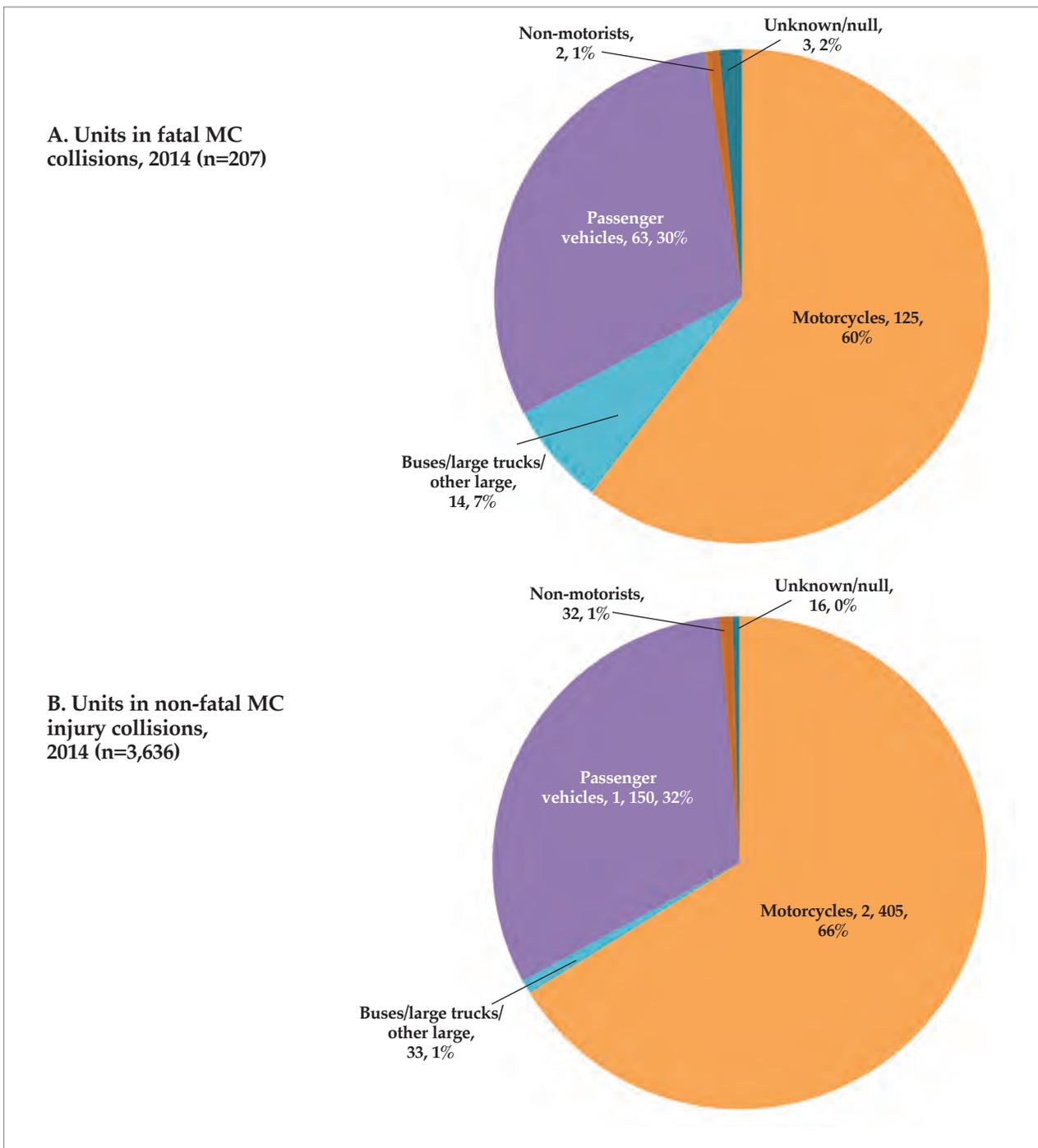
Characteristics	Number of collisions				Total	Probability of collision severity	
	Fatal	Incapacitating	Non-incapacitating	Property damage		Fatal	Incapacitating
<b>Weather conditions</b>							
Clear	97	405	1,461	755	2,718	3.6%	14.9%
Cloudy or poor visibility	24	93	295	128	540	4.4%	17.2%
Extreme weather	2	23	75	47	147	1.4%	15.6%
<b>Road junctions</b>							
No junction involved	74	327	1,118	592	2,111	3.5%	15.5%
Intersections	41	182	688	314	1,225	3.3%	14.9%
Interchange/ramp	8	12	26	25	71	11.3%	16.9%
<b>Road character</b>							
Straight (level)	70	343	1,251	691	2,355	3.0%	14.6%
Curves	38	108	345	115	606	6.3%	17.8%
Straight (non-level)	15	68	219	110	412	3.6%	16.5%
Non-roadway	0	2	15	15	32	0.0%	6.3%
<b>Road class</b>							
Local/city	56	266	1,018	496	1,836	3.1%	14.5%
Highway	33	151	429	211	824	4.0%	18.3%
County	25	81	254	92	452	5.5%	17.9%
Interstate	7	14	51	34	106	6.6%	13.2%

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

**Notes:**

- 1) Excludes collisions where characteristic was *unknown* or *not reported*.
- 2) Selected characteristics are re-grouped from collision characteristics reported in ARIES, as shown below.
  - a. **Weather conditions:**  
*Cloudy or poor visibility* includes *cloudy, fog/smoke/smog, and blowing sand/soil/snow*.  
*Extreme weather* includes *rain, severe cross wind, sleet/hail/freezing rain, and snow*.
  - b. **Road junctions:**  
*Intersections* includes *five point or more, four-way intersection, T-intersection, traffic circle/roundabout, RR crossing, and Y-intersection*.  
*Interchange/ramp* includes *interchange and ramp*.
  - c. **Road character:**  
*Curves* includes *curve/grade, curve/hillcrest, and curve/level*.  
*Straight/grade/hillcrest* includes *straight/grade and straight/hillcrest*.
  - d. **Road class:**  
*Highway* includes *state road and US route*.

Figure 5.4. Vehicles and non-motorists in Indiana collisions involving motorcycles (MC), 2014



Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) *Non-fatal injury collisions include incapacitating and non-incapacitating injury collisions.*
- 2) *Units refers to motor vehicles and non-motorists involved in collisions.*

**Table 5.3. Vehicles involved in Indiana multi-vehicle motorcycle collisions, by vehicle type, primary factor, and vehicle attributability to collision occurrence, 2014**

Primary factor	Vehicles involved		Count of vehicles attributable		% Attributable	
	Motorcycle	Other vehicles	Motorcycle	Other vehicles	Motorcycle	Other vehicles
<b>Unsafe actions</b>	<b>1,687</b>	<b>1,662</b>	<b>639</b>	<b>1,003</b>	<b>37.9%</b>	<b>60.3%</b>
Failure to yield right of way	715	725	136	579	19.0%	79.9%
Following too closely	341	314	201	117	58.9%	37.3%
Disregard signal/reg sign	101	103	66	32	65.3%	31.1%
Unsafe backing	101	101	1	96	1.0%	95.0%
Unsafe speed	79	75	54	17	68.4%	22.7%
Unsafe lane movement	74	72	26	47	35.1%	65.3%
Improper passing	72	73	55	16	76.4%	21.9%
Improper turning	72	71	28	44	38.9%	62.0%
Left of center	63	64	33	30	52.4%	46.9%
Improper lane usage	59	56	30	25	50.8%	44.6%
Speed too fast for weather conditions	5	5	5	0	100.0%	0.0%
Wrong way on one way	5	3	4	0	80.0%	0.0%
<b>Distraction</b>	<b>48</b>	<b>49</b>	<b>23</b>	<b>27</b>	<b>47.9%</b>	<b>55.1%</b>
<b>Vehicle-related</b>	<b>48</b>	<b>50</b>	<b>36</b>	<b>10</b>	<b>75.0%</b>	<b>20.0%</b>
<b>Loss of control</b>	<b>39</b>	<b>30</b>	<b>29</b>	<b>7</b>	<b>74.4%</b>	<b>23.3%</b>
<b>Environmental</b>	<b>38</b>	<b>34</b>	<b>24</b>	<b>22</b>	<b>63.2%</b>	<b>64.7%</b>
<b>Cognitive impairment</b>	<b>4</b>	<b>9</b>	<b>1</b>	<b>3</b>	<b>25.0%</b>	<b>33.3%</b>
<b>All other</b>	<b>145</b>	<b>130</b>	<b>90</b>	<b>66</b>	<b>62.1%</b>	<b>50.8%</b>
<b>Total</b>	<b>2,009</b>	<b>1,964</b>	<b>842</b>	<b>1,138</b>	<b>41.9%</b>	<b>57.9%</b>

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) See glossary for definition of *attributable* and *unsafe backing*.
- 2) A vehicle is *attributable* to the occurrence of a collision when the officer marks a *contributing circumstance* for that vehicle that also matches the collision *primary factor*. In multi-vehicle collisions, more than one vehicle can be classified as attributable.
- 3) Data exclude single-vehicle collisions involving motorcycles and collisions with unknown or unreported primary factor.
- 4) *Other vehicles* excludes *unknown* unit type, *pedestrians*, *bicycles*, and *animal-drawn vehicles*.

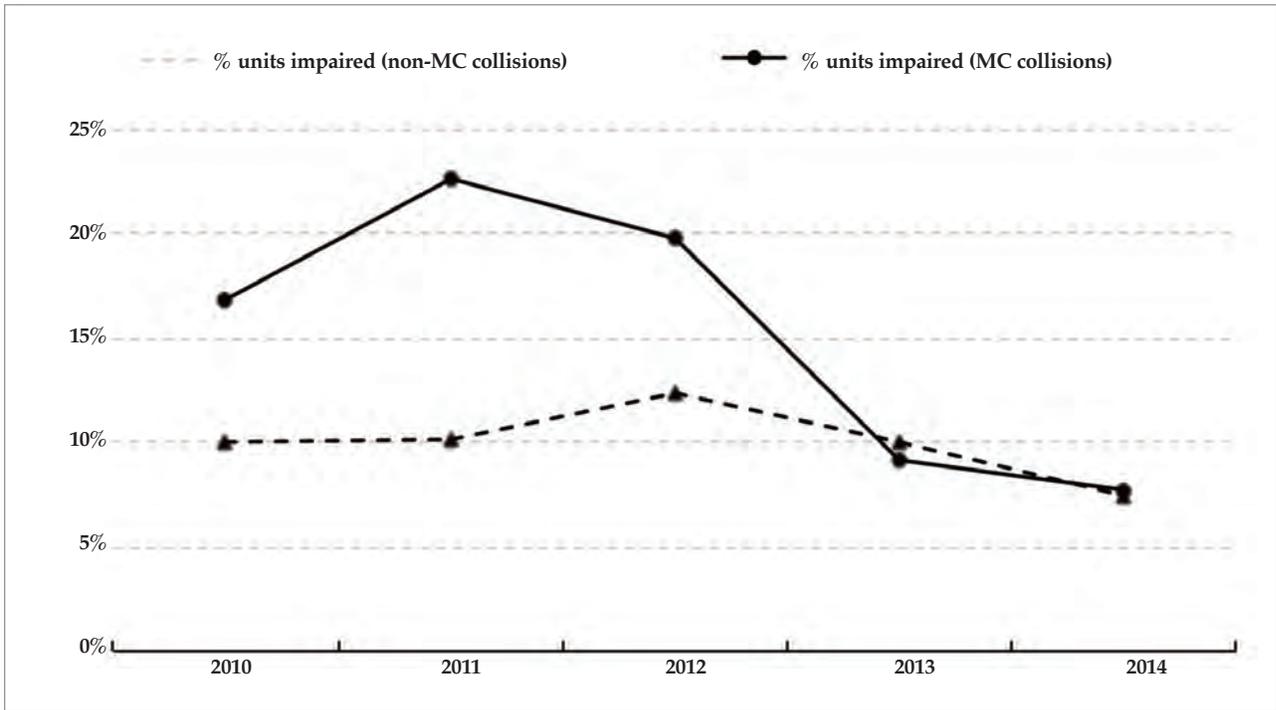
**Table 5.4. Speeding status of motorcycles and other vehicles involved in Indiana motorcycle collisions, 2010-2014**

	Vehicles involved					Annual rate of change	
	2010	2011	2012	2013	2014	2013-14	2010-14
<b>Single-vehicle (SV) collisions</b>							
<b>Motorcycles</b>	<b>1,560</b>	<b>1,571</b>	<b>1,771</b>	<b>1,493</b>	<b>1,462</b>	<b>-2.1%</b>	<b>-1.6%</b>
Speeding	239	277	284	270	255	-5.6%	1.6%
Not speeding	1,321	1,294	1,487	1,223	1,207	-1.3%	-2.2%
<b>Multi-vehicle (MV) collisions</b>							
<b>Motorcycles</b>	<b>1,942</b>	<b>2,058</b>	<b>2,441</b>	<b>2,102</b>	<b>2,016</b>	<b>-4.1%</b>	<b>0.9%</b>
Speeding	93	107	138	105	107	1.9%	3.6%
Not speeding	1,849	1,951	2,303	1,997	1,909	-4.4%	0.8%
<b>Other vehicles</b>	<b>1,902</b>	<b>2,042</b>	<b>2,374</b>	<b>2,066</b>	<b>1,972</b>	<b>-4.5%</b>	<b>0.9%</b>
Speeding	22	28	29	31	30	-3.2%	8.1%
Not speeding	1,880	2,014	2,345	2,035	1,942	-4.6%	0.8%
<b>Percent speeding</b>							
Motorcycles—SV	15.3%	17.6%	16.0%	18.1%	17.4%		
Motorcycles—MV	4.8%	5.2%	5.7%	5.0%	5.3%		
Other vehicles—MV	1.2%	1.4%	1.2%	1.5%	1.5%		

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Note: *Other vehicles* excludes *unknown* unit type, *pedestrians*, *bicycles*, and *animal-drawn vehicles*.

Figure 5.5. Percent of vehicles and non-motorists with alcohol-impaired drivers in fatal collisions, by motorcycle (MC) involvement, 2010-2014



Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Note: Units refers to motor vehicles and non-motorists involved in collisions.

Table 5.5. Indiana motorcycle rider injuries, 2010-2014

Injury status	Count of individuals					Annual rate of change	
	2010	2011	2012	2013	2014	2013-14	2010-14
<b>Total</b>	<b>3,729</b>	<b>3,815</b>	<b>4,465</b>	<b>3,795</b>	<b>3,686</b>	<b>-2.9%</b>	<b>-0.3%</b>
Fatal	110	118	151	119	125	5.0%	3.2%
Incapacitating	529	553	617	575	551	-4.2%	1.0%
Non-incapacitating	2,163	2,154	2,636	2,166	2,093	-3.4%	-0.8%
Other	25	18	33	14	27	92.9%	1.9%
Not injured	902	972	1,028	921	890	-3.4%	-0.3%
<b>% injured</b>	<b>75.8%</b>	<b>74.5%</b>	<b>77.0%</b>	<b>75.7%</b>	<b>75.9%</b>		
<b>% fatal + incapacitating</b>	<b>17.1%</b>	<b>17.6%</b>	<b>17.2%</b>	<b>18.3%</b>	<b>18.3%</b>		

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) Other injury includes unknown, '+', not reported, refused, and died from natural causes.
- 2) Motorcycle riders include operators and passengers of motorcycles and/or mopeds.

**Table 5.6. Individuals involved in Indiana motorcycle collisions, by collision type, vehicle type, driver alcohol impairment, and injury status, 2014**

Type of vehicle/alcohol status	Count of individuals, by injury status					Total
	Fatal	Incapacitating	Non-incapacitating	Other injury	No injury	
<b>Single-vehicle collisions</b>						
<b>Motorcycles</b>	48	271	1,033	10	278	1,640
Alcohol-impaired unit	9	29	64	1	18	121
% alcohol-impaired	18.8%	10.7%	6.2%	10.0%	6.5%	7.4%
<b>Multi-vehicle collisions</b>						
<b>Motorcycles</b>	77	280	1,060	17	612	2,046
Alcohol-impaired unit	6	7	17	0	9	39
% alcohol-impaired	7.8%	2.5%	1.6%	0.0%	1.5%	1.9%
<b>All other vehicles</b>	1	4	93	52	1,606	1,756
Alcohol-impaired unit	0	1	0	0	29	30
% alcohol-impaired	--	25.0%	0.0%	0.0%	1.8%	1.7%

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Notes:

1) See glossary for definitions of *alcohol-impaired*.

2) *Other injury* includes *unknown*, '+', *not reported*, *refused*, and *died from natural causes*.

**Table 5.7. Motorcycle operators involved in Indiana fatal and incapacitating collisions, by blood alcohol content (BAC) (g/dL), 2010-2014**

BAC range, g/dL	2010	2011	2012	2013	2014	Annual rate of change	
						2013-14	2010-14
<b>Total motorcycle operators</b>	620	641	754	662	656	-0.9%	1.4%
No BAC reported	486	489	571	537	549	2.2%	3.1%
% total operators	78.4%	76.3%	75.7%	81.1%	83.7%		
< 0.01	53	66	84	60	45	-25.0%	-4.0%
% total operators	8.5%	10.3%	11.1%	9.1%	6.9%		
0.01 < 0.08	15	8	19	19	12	-36.8%	-5.4%
% total operators	2.4%	1.2%	2.5%	2.9%	1.8%		
0.08 < 0.15	28	24	27	9	11	22.2%	-20.8%
% total operators	4.5%	3.7%	3.6%	1.4%	1.7%		
0.15 and greater	38	54	53	37	39	5.4%	0.7%
% total operators	6.1%	8.4%	7.0%	5.6%	5.9%		
<b>As % of reported results</b>							
< 0.01	39.6%	43.4%	45.9%	48.0%	42.1%		
0.01 < 0.08	11.2%	5.3%	10.4%	15.2%	11.2%		
0.08 < 0.15	20.9%	15.8%	14.8%	7.2%	10.3%		
0.15 and greater	28.4%	35.5%	29.0%	29.6%	36.4%		

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Notes:

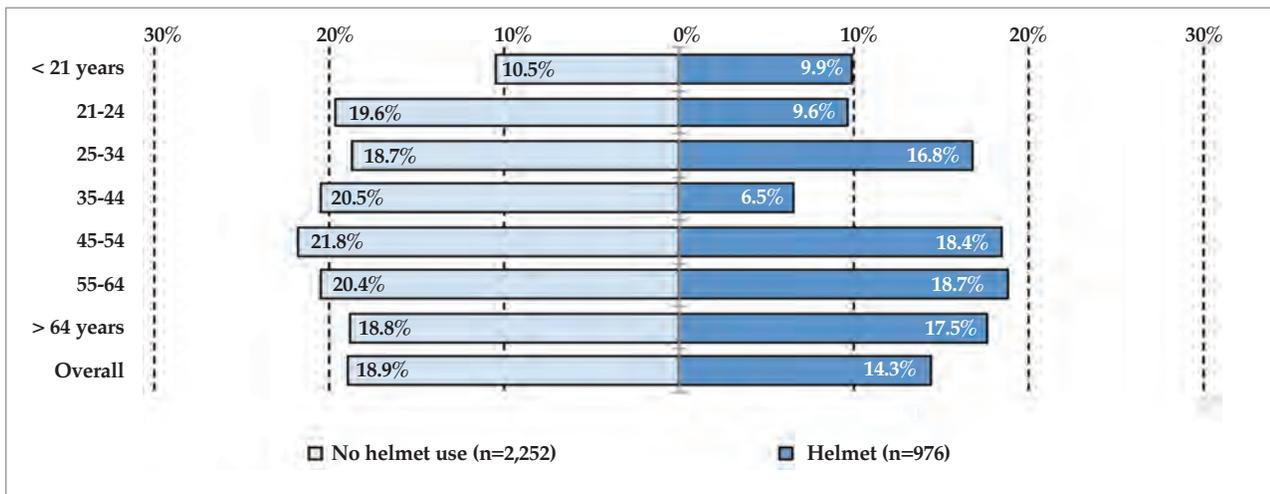
1) g/dL = grams per deciliter.

2) Excludes BAC > 0.59 g/dL.

**Table 5.8. Motorcyclists involved in collisions, by rider characteristics and injury status, 2014**

Characteristics	Count of individuals, by injury status					Total	Probability of injury status	
	Fatal	Incapacitating	Non-incapacitating	Other injury	No injury		Fatal	Incapacitating
<b>Type of individual</b>	<b>125</b>	<b>551</b>	<b>2,093</b>	<b>27</b>	<b>890</b>	<b>3,686</b>	<b>3.4%</b>	<b>14.9%</b>
Operator	111	489	1,802	25	878	3,305	3.4%	14.8%
Injured passenger	14	62	291	2	12	381	3.7%	16.3%
<b>Helmet use/age group</b>								
<b>Helmet</b>	<b>27</b>	<b>113</b>	<b>552</b>	<b>4</b>	<b>280</b>	<b>976</b>	<b>2.8%</b>	<b>11.6%</b>
Under 21	3	13	110	1	35	162	1.9%	8.0%
21-24	2	9	69	0	34	114	1.8%	7.9%
25-34	6	26	98	1	60	191	3.1%	13.6%
35-44	1	6	62	0	38	107	0.9%	5.6%
45-54	10	22	83	0	59	174	5.7%	12.6%
55-64	3	29	95	2	42	171	1.8%	17.0%
65 and older	2	8	35	0	12	57	3.5%	14.0%
<b>No helmet</b>	<b>73</b>	<b>353</b>	<b>1,339</b>	<b>15</b>	<b>472</b>	<b>2,252</b>	<b>3.2%</b>	<b>15.7%</b>
Under 21	1	32	216	2	62	313	0.3%	10.2%
21-24	10	29	109	1	50	199	5.0%	14.6%
25-34	14	66	254	4	89	427	3.3%	15.5%
35-44	11	76	251	2	85	425	2.6%	17.9%
45-54	25	87	299	3	99	513	4.9%	17.0%
55-64	7	49	155	3	60	274	2.6%	17.9%
65 and older	5	14	55	0	27	101	5.0%	13.9%
<b>Gender</b>								
<b>Male</b>	<b>110</b>	<b>456</b>	<b>1,662</b>	<b>24</b>	<b>834</b>	<b>3,086</b>	<b>3.6%</b>	<b>14.8%</b>
Operator	109	447	1,599	22	828	3,005	3.6%	14.9%
Injured passenger	1	9	63	2	6	81	1.2%	11.1%
<b>Female</b>	<b>15</b>	<b>95</b>	<b>431</b>	<b>2</b>	<b>53</b>	<b>596</b>	<b>2.5%</b>	<b>15.9%</b>
Operator	2	42	203	2	47	296	0.7%	14.2%
Injured passenger	13	53	228	0	6	300	4.3%	17.7%

**Figure 5.6. Fatal and incapacitating injuries as percent of total motorcyclist injuries, by helmet use and age group, 2014**



Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) Includes only cases where *helmet use* and *age* are known.
- 2) Includes only injuries reported as *fatal* or *incapacitating*.

**Table 5.9. Nature and location of injuries to motorcycle operators and passengers in collisions, by reported helmet use, 2014**

Nature of injury	Location of injury					Total	Percent injuries by nature
	Neck and above	Arms	Entire body	Legs	Torso		
<b>Total</b>	<b>698</b>	<b>542</b>	<b>260</b>	<b>678</b>	<b>272</b>	<b>2,450</b>	
<b>Helmet</b>	<b>80</b>	<b>207</b>	<b>75</b>	<b>233</b>	<b>91</b>	<b>686</b>	<b>100%</b>
Other injury	34	128	42	146	65	415	60.5%
Fracture/dislocation	6	45	6	58	11	126	18.4%
Minor bleeding	17	32	10	22	6	87	12.7%
Internal	12	1	14	4	7	38	5.5%
Severe bleeding	9	1	1	1	2	14	2.0%
None visible	2	0	0	1	0	3	0.4%
Severed	0	0	2	1	0	3	0.4%
<i>Percent injuries by location</i>	30.2%	10.9%	34.0%	11.7%	13.3%	100%	
<b>No helmet indicated</b>	<b>618</b>	<b>335</b>	<b>185</b>	<b>445</b>	<b>181</b>	<b>1,764</b>	<b>100%</b>
Other injury	254	224	107	256	134	975	55.3%
Minor bleeding	147	64	20	49	5	285	16.2%
Fracture/dislocation	40	43	18	117	17	235	13.3%
Internal	90	2	29	6	20	147	8.3%
Severe bleeding	78	0	5	12	2	97	5.5%
None visible	8	2	3	3	2	18	1.0%
Burns	0	0	2	1	1	4	0.2%
Severed	1	0	1	1	0	3	0.2%
<i>Percent injuries by location</i>	35.0%	19.0%	10.5%	25.2%	10.3%	100%	

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) *Other injuries* include abrasion, complaint of pain, contusion/bruise, and other.
- 2) *Burns* includes minor burn and severe burn.
- 3) *Location of injury:*
  - a. *Torso* includes abdomen/pelvis, back, and chest.
  - b. *Arms* includes elbow/lower arm and shoulder/upper arm.
  - c. *Neck and above* includes eye, face, head, and neck.
  - d. *Legs* includes hip/upper leg and knee/lower leg/foot.
- 4) Excludes individuals with no reported injury, unknown nature of injury, location of injury, or helmet use.

**Table 5.10. Motorcyclist fatalities, by helmet use, nature, and location of injuries, 2014**

Nature of injury	Location					Total	Percent by nature
	Neck and above	Entire body	Legs	Torso	Not reported		
<b>No helmet</b>	<b>68</b>	<b>23</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>98</b>	<b>100%</b>
Internal	34	12	1	3	0	50	51.0%
Severe bleeding	17	2	1	0	0	20	20.4%
Fracture/dislocation	7	2	1	0	0	10	10.2%
Other injury	4	6	0	0	0	10	10.2%
Not reported	4	1	0	0	1	6	6.1%
Minor bleeding	1	0	0	0	0	1	1.0%
None visible	1	0	0	0	0	1	1.0%
<b>Helmet</b>	<b>9</b>	<b>14</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>27</b>	<b>100%</b>
Internal	4	9	0	2	0	15	55.6%
Not reported	0	2	0	1	0	3	11.1%
Fracture/dislocation	3	0	0	0	0	3	11.1%
Severe bleeding	2	0	0	1	0	3	11.1%
Other injury	0	2	0	0	0	2	7.4%
Severed	0	1	0	0	0	1	3.7%
<b>Total</b>	<b>77</b>	<b>37</b>	<b>3</b>	<b>7</b>	<b>1</b>	<b>125</b>	
<b>Percent by location</b>							
No helmet	69.4%	23.5%	3.1%	3.1%	1.0%	100%	
Helmet	33.3%	51.9%	0.0%	14.8%	0.0%	100%	

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

**Notes:**

- 1) *Other injury* includes abrasion, complaint of pain, contusion/bruise, and other.
- 2) *Burns* includes minor burn and severe burn.
- 3) *Location of injury* is defined as follows based on ARIES categories:
  - a. *Torso* includes abdomen/pelvis, back, and chest.
  - b. *Arms* includes elbow/lower arm and shoulder/upper arm.
  - c. *Neck and above* includes eye, face, head, and neck.
  - d. *Legs* includes hip/upper leg and knee/lower leg/foot.
- 4) *No helmet indicated* includes null and unknown safety equipment types.

CHAPTER 6  
**PEOPLE**



## PEOPLE, 2014

The tables and figures in this section detail individual involvement (i.e., *drivers*, *injured occupants*, *pedestrians*, *pedalcyclists*, and *animal-drawn vehicle operators*) in collisions by age, gender, type of injury, license type, non-motorist action, and restraint use between 2010 and 2014. Both single-year and 5-year comparisons are presented.

### Person Type

In 2014, 314,664 of the 329,794 individuals involved in Indiana collisions were drivers of motorized vehicles. During that same year, 926 *pedalcyclists* and 1,775 *pedestrians* were involved in collisions. Total numbers of all individuals involved in collisions increased from 2013 to 2014. However, the number of *pedalcyclists* involved decreased by 10 percent between 2013 and 2014 (Table 6.1).

Generally, the number of individuals injured in Indiana collisions decreased between 2010 and 2014. The annual rate of change of collision involvement between 2010 and 2014 decreased the most for *pedalcyclists* (5 percent decrease). The largest numbers of individuals injured were *drivers* and *injured occupants*. While slightly increasing between 2013 and 2014, the numbers of drivers and injured occupants remained fairly stable over the previous five years (Table 6.2). The numbers of pedestrians killed or incapacitated increased substantially between 2010 and 2014.

### Drivers by License Type and License Status

In 2014, more than 80 percent of *drivers* involved in Indiana collisions had a valid driver's license (not shown in table). Among license types, motorcyclists were the most likely to be killed in a collision (9.6 per 1,000). In terms of license status, approximately 10 percent of *drivers* killed had previous or current infractions. Habitual traffic violators had the highest fatality rate (Tables 6.3 and 6.4).

### Non-motorists

Between one and two percent of *pedalcyclists* involved in collisions were killed between 2010 and 2014. The number of *pedalcyclists* involved in collisions was at a five year low in 2014. *Pedestrians* involved in Indiana collisions ranged from 1,686 to 1,812 during the time period. The highest percentage of collision-related *pedestrian* fatalities occurred in 2014 (Figure 6.1). Of the age groups illustrated in Figure 6.2, more *pedalcyclists* and *pedestrians* ages 15 to 24 were involved in Indiana collisions in 2014 than in any other age group.

The most common action of *pedestrians* and *pedalcyclists* involved in 2014 collisions was *crossing at intersection* (Tables 6.5 and 6.6). Riding *against traffic* and *on roadway* were also common *pedalcyclist* behaviors that resulted in a collision. In addition, *crossing not at intersection* and walking on a *roadway* were common actions of *pedestrians* resulting in traffic collisions in 2014. *Pedalcyclists* and *pedestrians* generally were more likely to be involved in collisions during the hours of 3pm and 6pm and on weekdays (Table 6.7).

### Restraint Use

The overall restraint use by individuals involved in Indiana collisions in passenger vehicles has remained constant from 2010-2014 (91 percent). Only 47 percent of the 498 persons killed in passenger occupant vehicles during 2014 were properly restrained (Table 6.8). One-third or fewer vehicle *occupants* between the ages of 15 and 34 killed in collisions were properly restrained (Table 6.9). Only 32 percent of male pickup truck *occupants* killed were properly restrained, compared to 44 percent and 61 percent of males killed who were restrained in SUVs and vans, respectively (Table 6.10).

Among fatalities, unrestrained passenger vehicle *occupants* were more likely than restrained *occupants* to be *ejected* or *partially ejected* from a vehicle. Of those *occupants* who were killed in a collision and *not ejected* or *trapped*, 57 percent were restrained (Figure 6.3).

Table 6.1. Individuals involved in Indiana collisions, by person type and gender, 2010-2014

Person type/gender	Count of individuals					Annual rate of change	
	2010	2011	2012	2013	2014	2013-14	2010-14
<b>Driver</b>	<b>295,345</b>	<b>288,288</b>	<b>290,114</b>	<b>294,414</b>	<b>314,664</b>	<b>6.9%</b>	<b>1.6%</b>
Male	164,781	159,993	160,578	163,253	176,873	8.3%	1.8%
Female	130,564	128,295	129,536	131,161	137,791	5.1%	1.4%
<b>Injured occupant</b>	<b>13,096</b>	<b>12,226</b>	<b>12,638</b>	<b>12,219</b>	<b>12,318</b>	<b>0.8%</b>	<b>-1.5%</b>
Male	4,994	4,707	4,802	4,700	4,717	0.4%	-1.4%
Female	8,102	7,519	7,836	7,519	7,601	1.1%	-1.6%
<b>Pedalcyclist</b>	<b>1,049</b>	<b>959</b>	<b>1,117</b>	<b>1,032</b>	<b>926</b>	<b>-10.3%</b>	<b>-3.1%</b>
Male	842	779	902	838	737	-12.1%	-3.3%
Female	207	180	215	194	189	-2.6%	-2.2%
<b>Pedestrian</b>	<b>1,799</b>	<b>1,811</b>	<b>1,753</b>	<b>1,684</b>	<b>1,775</b>	<b>5.4%</b>	<b>-0.3%</b>
Male	1,020	1,062	1,031	975	1,034	6.1%	0.3%
Female	779	749	722	709	741	4.5%	-1.2%
<b>Animal-drawn vehicle operator</b>	<b>77</b>	<b>100</b>	<b>101</b>	<b>108</b>	<b>111</b>	<b>2.8%</b>	<b>9.6%</b>
Male	55	72	72	83	77	-7.2%	8.8%
Female	22	28	29	25	34	36.0%	11.5%
<b>All Individuals</b>	<b>311,366</b>	<b>303,384</b>	<b>305,723</b>	<b>309,457</b>	<b>329,794</b>	<b>6.6%</b>	<b>1.4%</b>
Male	171,692	166,613	167,385	169,849	183,438	8.0%	1.7%
Female	139,674	136,771	138,338	139,608	146,356	4.8%	1.2%

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Note: Excludes unknown gender.

Table 6.2. Individuals involved in Indiana collisions, by person type and injury status, 2010-2014

Person type/injury status	Count of individuals					Annual rate of change	
	2010	2011	2012	2013	2014	2013-14	2010-14
<b>Driver</b>	<b>33,192</b>	<b>31,743</b>	<b>33,222</b>	<b>31,910</b>	<b>32,842</b>	<b>2.9%</b>	<b>-0.3%</b>
Fatal	521	524	542	530	517	-2.5%	-0.2%
Incapacitating	2,273	2,364	2,601	2,389	3,731	56.2%	13.2%
Non-incapacitating	30,398	28,855	30,079	28,991	28,594	-1.4%	-1.5%
<b>Injured occupant</b>	<b>12,747</b>	<b>11,882</b>	<b>12,316</b>	<b>11,890</b>	<b>11,976</b>	<b>0.7%</b>	<b>-1.5%</b>
Fatal	157	146	160	167	137	-18.0%	-3.3%
Incapacitating	840	724	894	763	1,363	78.6%	12.9%
Non-incapacitating	11,750	11,012	11,262	10,960	10,476	-4.4%	-2.8%
<b>Pedalcyclist</b>	<b>870</b>	<b>781</b>	<b>894</b>	<b>827</b>	<b>716</b>	<b>-13.4%</b>	<b>-4.8%</b>
Fatal	14	13	14	15	13	-13.3%	-1.8%
Incapacitating	82	82	97	82	89	8.5%	2.1%
Non-incapacitating	774	686	783	730	614	-15.9%	-5.6%
<b>Pedestrian</b>	<b>1,600</b>	<b>1,633</b>	<b>1,547</b>	<b>1,466</b>	<b>1,536</b>	<b>4.8%</b>	<b>-1.0%</b>
Fatal	60	63	64	70	76	8.6%	6.1%
Incapacitating	252	240	222	205	303	47.8%	4.7%
Non-incapacitating	1,288	1,330	1,261	1,191	1,157	-2.9%	-2.6%
<b>Animal-drawn vehicle operator</b>	<b>32</b>	<b>31</b>	<b>23</b>	<b>29</b>	<b>30</b>	<b>3.4%</b>	<b>-1.6%</b>
Fatal	1	4	1	2	0	-100.0%	-100.0%
Incapacitating	2	4	2	2	7	250.0%	36.8%
Non-incapacitating	29	23	20	25	23	-8.0%	-5.6%

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Note: Non-incapacitating includes injuries reported as non-incapacitating and possible.

**Table 6.3. Drivers involved in Indiana collisions, by license type and injury status, 2014**

License type	Driver injury status						Total	Fatal per 1,000 overall total
	Fatal	% of total fatal	Incapacitating	Non-incapacitating	Unknown/other	No injury		
Operator	374	72.8%	3,087	24,950	1,692	245,164	275,267	1.4
Commercial driver	28	5.4%	114	808	121	17,146	18,217	1.5
Motorcycle	66	12.8%	248	1,119	39	5,387	6,859	9.6
Chauffeur	9	1.8%	54	382	33	4,866	5,344	1.7
No license	24	4.7%	145	808	38	3,896	4,911	4.9
Learner permit	9	1.8%	53	355	23	2,186	2,626	3.4
Probationary operator license	0	0.0%	1	13	1	82	97	0.0
Unknown license type	4	0.8%	19	88	27	991	1,129	3.5
<b>Total</b>	<b>514</b>	<b>100.0%</b>	<b>3,721</b>	<b>28,523</b>	<b>1,974</b>	<b>279,718</b>	<b>314,450</b>	<b>1.6</b>

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) Includes drivers reported with ages ranging from 15 to 109. Excludes unknown and invalid ages.
- 2) *Chauffeur* license type includes *chauffeur* and *public passenger chauffeur* license.
- 3) *Motorcycle* license type includes *motorcycle*, *chauffeur with MC endorsement*, *operators with MC endorsement*, and *public passenger chauffer with MC endorsement*.
- 4) *Learner permit* license type includes *learner permit*, *drivers education learner permit*, and *learner motorcycle*.
- 5) *Non-incapacitating injuries* include those reported as *non-incapacitating* and *possible injuries*.

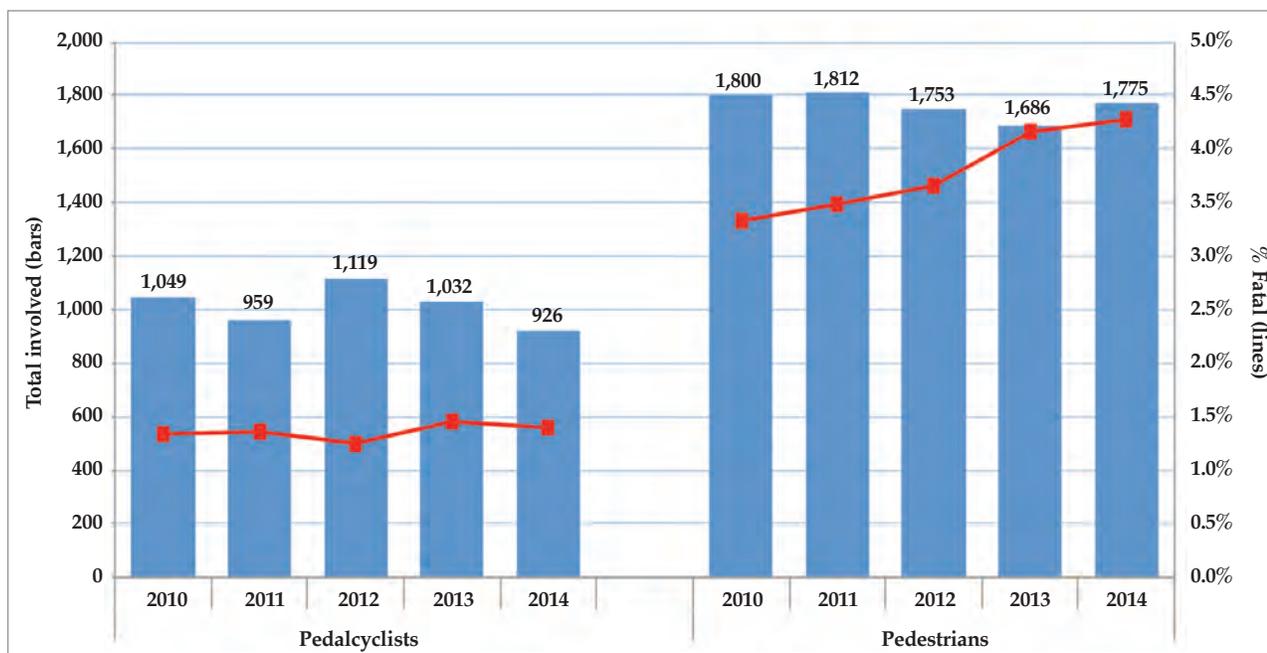
**Table 6.4. Drivers involved in Indiana collisions, by license status and driver injury status, 2014**

License type	Driver injury status						Total	Fatal per 1,000 overall total
	Fatal	% of total fatal	Incapacitating	Non-incapacitating	Unknown/other	No injury		
Valid	387	75.3%	2,888	23,450	1,600	234,234	262,559	1.5
Unknown	67	13.0%	453	3,215	264	35,729	39,728	1.7
Suspended - infraction	24	4.7%	155	815	45	4,631	5,670	4.2
Suspended - prior	19	3.7%	105	562	44	2,754	3,484	5.5
Unlicensed	7	1.4%	47	248	8	1,278	1,588	4.4
Cancelled	1	0.2%	8	61	3	461	534	1.9
Habitual traffic violator	2	0.4%	30	66	2	161	261	7.7
Conditional	0	0.0%	4	20	3	193	220	0.0
Habitual traffic violator - life	6	1.2%	25	55	3	104	193	31.1
Suspended - misdemeanor	1	0.2%	4	22	2	74	103	9.7
Invalid - revoked	0	0.0%	2	9	0	88	99	0.0
Fraudulent	0	0.0%	0	0	0	11	11	0.0
<b>Total</b>	<b>514</b>	<b>100.0%</b>	<b>3,721</b>	<b>28,523</b>	<b>1,974</b>	<b>279,718</b>	<b>314,450</b>	<b>1.6</b>

Sources: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015; Indiana Bureau of Motor Vehicles (BMV) licensing data, current as of March 24, 2015

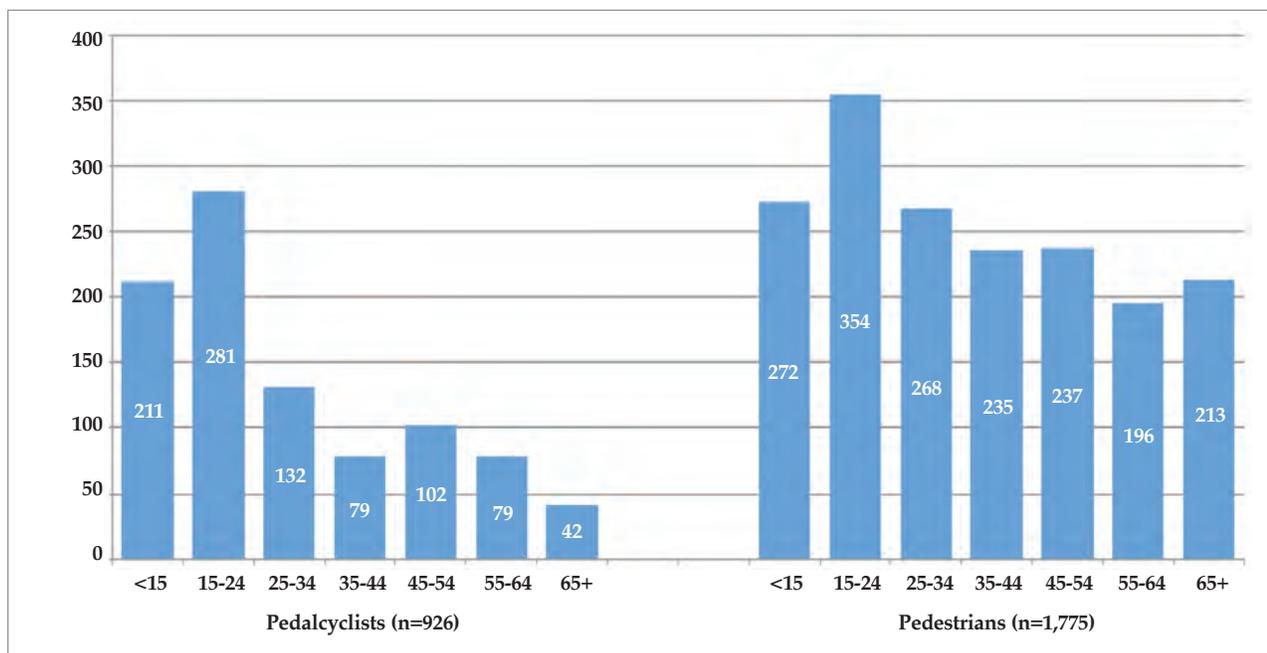
Note: Includes drivers reported with ages over 14. Excludes unknown and invalid ages.

Figure 6.1. Pedestrians and pedalcyclists involved in collisions, 2010-2014



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Figure 6.2. Pedalcyclists and pedestrians involved in Indiana collisions, by age, 2014



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

**Table 6.5. Pedalcyclists involved in Indiana collisions, by pedalcyclist action and injury status, 2014**

Pedalcyclist action	Fatal	Non-fatal	Total involved	% Fatal
Crossing at intersection	1	309	310	0.3%
Moving	1	120	121	0.8%
On roadway	5	106	111	4.5%
Against traffic	0	72	72	0.0%
Unknown	0	72	72	0.0%
Crossing not at intersection	1	67	68	1.5%
With traffic	4	52	56	7.1%
Other	1	48	49	2.0%
Not in roadway	0	30	30	0.0%
On designated non-motorist lane	0	20	20	0.0%
On shoulder	0	16	16	0.0%
Standing	0	1	1	0.0%
<b>Total</b>	<b>13</b>	<b>913</b>	<b>926</b>	<b>1.4%</b>

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Note: Non-fatal includes injury status of incapacitating, non-incapacitating, possible, refused (treatment), not reported, and unknown.

**Table 6.6. Pedestrians involved in Indiana collisions, by pedestrian action and injury status, 2014**

Pedestrian action	Fatal	Non-fatal	Total involved	% Fatal
Crossing at intersection	8	335	343	2.3%
Crossing not at intersection	17	266	283	6.0%
On roadway	30	235	265	11.3%
Other	4	202	206	1.9%
Unknown	4	154	158	2.5%
Not in roadway	2	109	111	1.8%
Moving	4	98	102	3.9%
Standing	1	78	79	1.3%
On shoulder	0	56	56	0.0%
Against traffic	2	31	33	6.1%
On designated non-motorist lane	0	33	33	0.0%
Getting in or out of vehicle	0	38	38	0.0%
With traffic	2	44	46	4.3%
Working	2	14	16	12.5%
Getting off or on school bus	0	6	6	0.0%
<b>Total</b>	<b>76</b>	<b>1,699</b>	<b>1,775</b>	<b>4.3%</b>

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Note: Non-fatal includes injury status of incapacitating, non-incapacitating, possible, refused (treatment), not reported, and unknown.

Table 6.7. Pedestrians and pedalcyclists involved in Indiana collisions, by time of day and day of week, 2014

	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Total by hour	% by hour
12am-	10	3	4	5	5	5	13	45	1.7%
1am-	5	0	0	3	1	1	9	19	0.7%
2am-	2	1	1	2	2	4	3	15	0.6%
3am-	16	1	3	2	2	2	5	31	1.1%
4am-	3	3	5	1	3	3	5	23	0.9%
5am-	2	1	10	3	5	8	1	30	1.1%
6am-	2	7	12	21	15	12	8	77	2.9%
7am-	3	19	30	17	20	29	4	122	4.5%
8am-	4	14	16	17	24	13	2	90	3.3%
9am-	4	10	6	11	16	10	10	67	2.5%
10am-	6	11	10	16	17	12	14	86	3.2%
11am-	9	16	11	24	20	23	16	119	4.4%
12am-	16	19	17	25	20	29	29	155	5.7%
1pm-	22	25	20	17	24	35	24	167	6.2%
2pm-	10	32	26	22	27	25	24	166	6.1%
3pm-	20	45	42	33	36	43	21	240	8.9%
4pm-	13	35	46	28	30	36	26	214	7.9%
5pm-	18	28	46	45	35	24	27	223	8.3%
6pm-	24	37	46	24	28	37	27	223	8.3%
7pm-	20	28	17	22	31	30	18	166	6.1%
8pm-	12	24	17	18	16	46	21	154	5.7%
9pm-	8	15	20	16	15	28	18	120	4.4%
10pm-	18	6	10	11	13	13	14	85	3.1%
11pm-	6	10	5	3	7	17	16	64	2.4%
<b>Total</b>	<b>253</b>	<b>390</b>	<b>420</b>	<b>386</b>	<b>412</b>	<b>485</b>	<b>355</b>	<b>2701</b>	<b>100%</b>
<b>% by day</b>	<b>9%</b>	<b>14%</b>	<b>16%</b>	<b>14%</b>	<b>15%</b>	<b>18%</b>	<b>13%</b>	<b>100%</b>	



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Note: Color scale represents the highest and lowest numbers for the entire week.

**Table 6.8. Restraint use and injury status among passenger vehicle occupants in Indiana collisions, 2010-2014**

Passenger vehicle occupant injuries	2010	2011	2012	2013	2014	Annual rate of change	
						2013-14	2010-14
<b>All occupants</b>	<b>289,536</b>	<b>280,923</b>	<b>283,450</b>	<b>287,745</b>	<b>304,345</b>	<b>5.8%</b>	<b>1.3%</b>
properly restrained	262,791	254,550	256,870	260,786	278,123	6.6%	1.4%
% restrained	90.8%	90.6%	90.6%	90.6%	91.4%	0.8%	0.2%
<b>Fatalities</b>	<b>549</b>	<b>515</b>	<b>518</b>	<b>550</b>	<b>498</b>	<b>-9.5%</b>	<b>-2.4%</b>
properly restrained	262	255	250	282	233	-17.4%	-2.9%
% restrained	47.7%	49.5%	48.3%	51.3%	46.8%	-8.7%	-0.5%
<b>Incapacitating injuries</b>	<b>2,510</b>	<b>2,433</b>	<b>2,762</b>	<b>2,471</b>	<b>4,338</b>	<b>75.6%</b>	<b>14.7%</b>
properly restrained	1,868	1,803	2,009	1,824	3,455	89.4%	16.6%
% restrained	74.4%	74.1%	72.7%	73.8%	79.6%	7.9%	1.7%
<b>Non-incapacitating injuries</b>	<b>38,954</b>	<b>36,630</b>	<b>37,639</b>	<b>36,607</b>	<b>35,706</b>	<b>-2.5%</b>	<b>-2.2%</b>
properly restrained	34,770	32,677	33,479	32,593	32,183	-1.3%	-1.9%
% restrained	89.3%	89.2%	88.9%	89.0%	90.1%	1.2%	0.2%
<b>Other injuries</b>	<b>2,277</b>	<b>1,721</b>	<b>1,735</b>	<b>2,001</b>	<b>1,944</b>	<b>-2.8%</b>	<b>-3.9%</b>
properly restrained	2,022	1,519	1,550	1,797	1,751	-2.6%	-3.5%
% restrained	88.8%	88.3%	89.3%	89.8%	90.1%	0.3%	0.4%
<b>Not injured</b>	<b>245,246</b>	<b>239,624</b>	<b>240,796</b>	<b>246,116</b>	<b>261,859</b>	<b>6.4%</b>	<b>1.7%</b>
properly restrained	223,869	218,296	219,582	224,290	240,501	7.2%	1.8%
% restrained	91.3%	91.1%	91.2%	91.1%	91.8%	0.8%	0.2%

Source: Indiana State Police Automated Reporting Information Exchange System, as of March 23, 2015

Notes:

- 1) Totals include individuals with 'NULL' and unknown restraint use.
- 2) Passenger vehicles are defined as passenger cars, pickup trucks, SUVs, and vans.

**Table 6.9. Vehicle occupants involved in Indiana collisions, by age, restraint use, and injury severity, 2014**

Age group	Injury status					Total
	Fatal	Incapacitating	Non-incapacitating	Other injury	Not injured	
<b>All Occupants</b>	<b>550</b>	<b>4,719</b>	<b>37,550</b>	<b>2,096</b>	<b>279,400</b>	<b>324,315</b>
% restrained	45.3%	75.4%	87.8%	89.4%	91.7%	91.0%
<b>&lt;15</b>	<b>14</b>	<b>239</b>	<b>2,598</b>	<b>42</b>	<b>540</b>	<b>3,433</b>
% restrained	57.1%	75.7%	85.5%	78.6%	15.6%	73.6%
<b>15 - 24</b>	<b>114</b>	<b>1,176</b>	<b>9,320</b>	<b>580</b>	<b>66,998</b>	<b>78,188</b>
% restrained	32.5%	70.9%	84.8%	89.0%	91.6%	90.4%
<b>25 - 34</b>	<b>105</b>	<b>929</b>	<b>7,138</b>	<b>441</b>	<b>56,763</b>	<b>65,376</b>
% restrained	29.5%	70.2%	86.1%	87.3%	91.5%	90.4%
<b>35 - 44</b>	<b>74</b>	<b>652</b>	<b>5,502</b>	<b>319</b>	<b>46,962</b>	<b>53,509</b>
% restrained	50.0%	75.0%	87.6%	88.1%	92.1%	91.3%
<b>45 - 54</b>	<b>84</b>	<b>649</b>	<b>5,173</b>	<b>296</b>	<b>43,708</b>	<b>49,910</b>
% restrained	40.5%	77.8%	89.9%	92.6%	92.2%	91.7%
<b>55 - 64</b>	<b>64</b>	<b>523</b>	<b>4,113</b>	<b>234</b>	<b>35,344</b>	<b>40,278</b>
% restrained	62.5%	82.2%	92.2%	91.5%	92.2%	92.1%
<b>65 - 74</b>	<b>49</b>	<b>332</b>	<b>2,304</b>	<b>123</b>	<b>18,675</b>	<b>21,483</b>
% restrained	55.1%	83.7%	92.3%	93.5%	92.6%	92.3%
<b>75 years and over</b>	<b>46</b>	<b>219</b>	<b>1,402</b>	<b>61</b>	<b>10,410</b>	<b>12,138</b>
% restrained	76.1%	86.8%	93.0%	90.2%	91.6%	91.6%

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) Includes only individuals with valid age.
- 2) Excludes unit types of farm vehicles, motorcycles, mopeds, animal-drawn vehicles, bicycles, and pedestrians.

Table 6.10. Vehicle occupants killed or injured in Indiana collisions, by restraint use, vehicle type, and gender, 2014

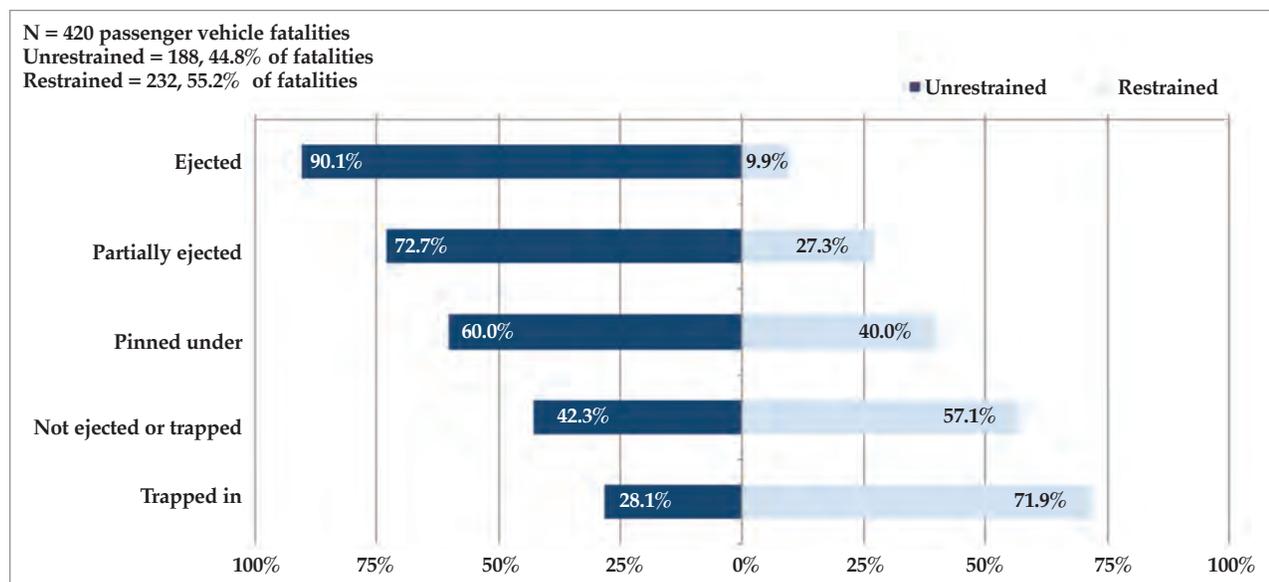
Vehicle type	Fatal		Non-fatal injury		Total
	Male	Female	Male	Female	
<b>Total</b>	<b>363</b>	<b>162</b>	<b>19,479</b>	<b>23,926</b>	<b>43,930</b>
% restrained	40.5%	59.9%	85.0%	90.8%	88.3%
<b>Buses</b>	<b>1</b>	<b>0</b>	<b>160</b>	<b>231</b>	<b>392</b>
% restrained	0.0%	n/a	16.3%	20.3%	18.6%
<b>Passenger car</b>	<b>200</b>	<b>117</b>	<b>11,934</b>	<b>17,044</b>	<b>29,295</b>
% restrained	41.0%	67.5%	86.5%	91.9%	89.2%
<b>Pickup truck</b>	<b>74</b>	<b>17</b>	<b>3,122</b>	<b>1,207</b>	<b>4,420</b>
% restrained	32.4%	29.4%	81.1%	87.1%	81.7%
<b>Sport utility vehicle</b>	<b>45</b>	<b>21</b>	<b>2,335</b>	<b>3,958</b>	<b>6,359</b>
% restrained	44.4%	38.1%	87.3%	91.4%	89.4%
<b>Vans</b>	<b>18</b>	<b>6</b>	<b>998</b>	<b>1,371</b>	<b>2,393</b>
% restrained	61.1%	66.7%	89.3%	92.3%	90.7%
<b>Large trucks</b>	<b>17</b>	<b>1</b>	<b>769</b>	<b>46</b>	<b>833</b>
% restrained	58.8%	100.0%	87.9%	87.0%	87.3%
<b>Other vehicles</b>	<b>8</b>	<b>0</b>	<b>161</b>	<b>69</b>	<b>238</b>
% restrained	0.0%	n/a	49.1%	52.2%	48.3%

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) Excludes farm vehicles, motorcycles, mopeds, animal-drawn vehicles, bicycles and pedestrians. Also excludes individuals with unknown gender.
- 2) Other vehicle types consists of unknown, combination vehicles, and motor homes/RVs.
- 3) Restraint use includes the use of one of the following: Lap belt only, Harness, Airbag deployed and harness, Child restraint, or Lap and harness.
- 4) Non-fatal injury includes injury statuses of incapacitating, non-incapacitating, possible, unknown, not reported, refused (treatment), and invalid injury categories.

Figure 6.3. Passenger vehicle fatalities in Indiana collisions, by ejection status and restraint use, 2014



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) Passenger vehicles are defined as passenger cars, pickup trucks, SUVs, and vans.
- 2) Excludes unknown restraint use.
- 3) Excludes unknown ejection status.



CHAPTER 7  
**ALCOHOL**



## ALCOHOL, 2014

In 2014, there were 94 fatal crashes and 101 fatalities (decreases from 2013 of 23 percent and 25 percent, respectively) involving a vehicle driver legally impaired by alcohol (i.e., blood alcohol content at or above 0.08 g/dL) (Table 7.1).

During the 2010-2014 period, the numbers of persons killed in crashes involving alcohol-impaired drivers decreased 7 percent annually. Fatal collisions involving an alcohol-impaired driver decreased nearly 8 percent annually from 2010 to 2014 (Table 7.1).

### Impaired Driver Characteristics

In 2014, about 29 percent of impaired drivers in Indiana fatal traffic collisions were between the ages of 25 to 34, while 12 percent were 21 to 24 years old (calculated from Table 7.2). Male drivers are more likely than female drivers to have been alcohol-impaired in Indiana collisions (Table 7.3). For example, over 11 percent of male drivers aged 21 to 24 in fatal crashes were impaired compared to about 6 percent of female drivers in the same age range. Per 10,000 licensed drivers in 2014, both males and females aged 21 to 24 years had the highest rates of alcohol impairment in collisions (within respective gender categories) (Table 7.4). The rate of alcohol impairment in collisions among male drivers aged 21 to 24 was 40.3 per 10,000 licensed drivers compared to 13.2 among female drivers.

### Injuries by Person Type

Impaired drivers comprised 68 (67 percent) of the 101 fatalities in 2014 (calculated from Table 7.5). Among all persons killed in collisions involving alcohol-impairment in 2014, 19 percent were passengers of impaired drivers, and 8 percent were unimpaired drivers.

### Alcohol and Drug Testing

In 2014, 66 percent of all drivers involved in fatal crashes in Indiana were tested for alcohol consumption compared to only 17 percent of all drivers tested in incapacitating injury collisions (Table 7.6). Testing rates were generally higher for younger drivers; the group with the highest rate of testing included drivers between 25 and 34 who were in fatal collisions (73 percent), while the lowest rate (32 percent) in fatal collisions was for drivers 75 years and older (Table 7.6).

Among surviving drivers with reported results in 2014 fatal collisions, 8 percent of drivers were legally impaired; among drivers killed with reported BAC results, about 43 percent were legally impaired (Table 7.7). In 2014, among drivers

killed and for whom BAC results were reported, the likelihood of the results to show that drivers were impaired by alcohol was highest among those aged 45 to 54 (61 percent).

### Road Class and Census Locale

Comparing road classes, fatalities in crashes involving an impaired driver were most common on *local/city roads* and *county roads*. In 2014, 15 percent of all fatalities on *local/city roads* involved an impaired driver (Table 7.8), while about 22 percent of fatalities on *county roads* involved impaired drivers. With the exception of *unknown* road class, incapacitating injuries linked to alcohol-impaired drivers were proportionally largest on county roads (8 percent). In addition, alcohol-impaired fatalities were most common in *urban areas* (42 percent, or 43 of 101 persons killed in alcohol-impaired collisions), followed by *suburban* areas (30 percent) (Figure 7.1 and Table 7.9).

### Month

Alcohol-impaired fatalities and injuries in Indiana vary by month (Figure 7.2). In 2014, the month of August had the highest count of fatalities from collisions involving alcohol-impaired drivers. The highest rate of fatalities from alcohol-impaired fatal collisions was also in August. The highest rate of non-fatal injuries from collisions involving alcohol-impaired drivers was in July.

### Single- and Multi-vehicle Collisions

Drivers involved in single-vehicle collisions are more likely to be impaired than drivers involved in multiple-vehicle collisions (Tables 7.10). In single-vehicle collisions in 2014, about four percent of all drivers were alcohol-impaired, compared to less than one percent of drivers in multiple-vehicle collisions. Among drivers killed in single-vehicle collisions, 20 percent were impaired, compared to an 8 percent impairment rate among drivers killed in multiple-vehicle crashes.

### Vehicle Type

Impairment rates vary by vehicle type (Table 7.11). In 2014, the highest impairment rates where vehicle type was known were among drivers killed in pickup trucks (17 percent), sport utility vehicles (16 percent), and by motorcycle operators (14 percent). Considering drivers or operators in all Indiana collisions in 2014, motorcycle operators had the highest rates of alcohol-impaired driving of any vehicle class (4 percent).

Table 7.1. Indiana collisions and injuries involving alcohol-impaired drivers, 2010-2014

Crash severity	Count of collisions and injuries					Annual rate of change	
	2010	2011	2012	2013	2014	2013-14	2010-14
<b>Collisions involving an alcohol-impaired driver</b>							
<b>Total collisions</b>	<b>5,005</b>	<b>4,961</b>	<b>5,198</b>	<b>4,794</b>	<b>4,574</b>	<b>-4.6%</b>	<b>-2.2%</b>
Fatal	130	138	167	122	94	-23.0%	-7.8%
Incapacitating	217	186	211	201	246	22.4%	3.2%
Non-incapacitating	1,310	1,259	1,317	1,202	1,044	-13.1%	-5.5%
Property damage	3,348	3,378	3,503	3,269	3,190	-2.4%	-1.2%
<b>Individuals in collisions involving an alcohol-impaired driver</b>							
<b>Total individuals</b>	<b>7,347</b>	<b>7,205</b>	<b>7,393</b>	<b>6,942</b>	<b>6,570</b>	<b>-5.4%</b>	<b>-2.8%</b>
Fatal	135	145	177	134	101	-24.6%	-7.0%
Incapacitating	265	227	253	247	315	27.5%	4.4%
Non-incapacitating	1,931	1,872	1,899	1,836	1,565	-14.8%	-5.1%
Not injured	5,016	4,961	5,064	4,725	4,589	-2.9%	-2.2%

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Note: For total individuals injured, non-incapacitating includes possible, +, not reported, refused, and unknown injury status categories.

Table 7.2. Alcohol-impaired drivers in Indiana fatal collisions, by driver age, 2010-2014

Driver age	Count of drivers involved					Annual rate of change	
	2010	2011	2012	2013	2014	2013-14	2010-14
15 to 20	10	10	12	6	4	-33.3%	-20.5%
21 to 24	24	21	27	27	11	-59.3%	-17.7%
25 to 34	29	36	48	37	28	-24.3%	-0.9%
35 to 44	33	35	38	27	18	-33.3%	-14.1%
45 to 54	28	24	28	13	22	69.2%	-5.9%
55 and above	9	14	16	13	12	-7.7%	7.5%
<b>Total</b>	<b>133</b>	<b>140</b>	<b>169</b>	<b>123</b>	<b>95</b>	<b>-22.8%</b>	<b>-8.1%</b>

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Note: Excludes ages under 15 and over 109 years and cases with unknown or non-reported age.

**Table 7.3. Drivers in Indiana collisions, by age, gender, and alcohol impairment, 2014**

Driver age	Females			Males			All drivers		
	Alcohol-impaired	Total involved	% impaired	Alcohol-impaired	Total involved	% impaired	Alcohol-impaired	Total involved	% impaired
<b>In fatal collisions</b>	<b>13</b>	<b>253</b>	<b>5.1%</b>	<b>82</b>	<b>857</b>	<b>9.6%</b>	<b>95</b>	<b>1,110</b>	<b>8.6%</b>
15 to 20	0	20	0.0%	4	68	5.9%	4	88	4.5%
21 to 24	2	34	5.9%	9	80	11.3%	11	114	9.6%
25 to 34	4	46	8.7%	24	175	13.7%	28	221	12.7%
35 to 44	4	42	9.5%	14	142	9.9%	18	184	9.8%
45 to 54	3	44	6.8%	19	183	10.4%	22	227	9.7%
55 to 64	0	30	0.0%	9	107	8.4%	9	137	6.6%
65 to 74	0	22	0.0%	3	61	4.9%	3	83	3.6%
75 and older	0	15	0.0%	0	41	0.0%	0	56	0.0%
<b>In non-fatal collisions</b>	<b>1,132</b>	<b>137,386</b>	<b>0.8%</b>	<b>3,354</b>	<b>175,699</b>	<b>1.9%</b>	<b>4,486</b>	<b>313,085</b>	<b>1.4%</b>
15 to 20	63	18,818	0.3%	253	21,525	1.2%	316	40,343	0.8%
21 to 24	208	16,117	1.3%	650	18,586	3.5%	858	34,703	2.5%
25 to 34	348	28,703	1.2%	965	35,293	2.7%	1,313	63,996	2.1%
35 to 44	236	22,982	1.0%	612	29,563	2.1%	848	52,545	1.6%
45 to 54	184	20,583	0.9%	503	28,609	1.8%	687	49,192	1.4%
55 to 64	67	16,328	0.4%	279	23,306	1.2%	346	39,634	0.9%
65 to 74	25	8,800	0.3%	73	12,227	0.6%	98	21,027	0.5%
75 and older	1	5,053	0.0%	18	6,582	0.3%	19	11,635	0.2%
Unknown age	0	2	0.0%	1	8	12.5%	1	10	10.0%

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) Excludes ages under 15 and over 109 years and cases with unknown or non-reported age.
- 2) All drivers excludes cases where gender information was not reported.

**Table 7.4. Alcohol-impaired drivers involved in Indiana collisions and rate per 10,000 licensed, by age and gender, 2014**

Driver age	Females			Males			All drivers		
	Alcohol-impaired	Total licensed	Rate per 10K licensed	Alcohol-impaired	Total licensed	Rate per 10K licensed	Alcohol-impaired	Total licensed	Rate per 10K licensed
15 to 20	63	169,296	3.7	257	173,544	14.8	320	342,840	9.3
21 to 24	210	159,591	13.2	659	163,596	40.3	869	323,187	26.9
25 to 34	352	387,616	9.1	989	382,526	25.9	1,341	770,142	17.4
35 to 44	240	373,390	6.4	626	366,378	17.1	866	739,768	11.7
45 to 54	187	410,547	4.6	522	399,565	13.1	709	810,112	8.8
55 to 64	67	402,530	1.7	288	384,519	7.5	355	787,049	4.5
65 to 74	25	265,418	0.9	76	241,821	3.1	101	507,239	2.0
75 and older	1	162,724	0.1	18	134,774	1.3	19	297,498	0.6
<b>All ages</b>	<b>1,145</b>	<b>2,331,112</b>	<b>4.9</b>	<b>3,435</b>	<b>2,246,723</b>	<b>15.3</b>	<b>4,580</b>	<b>4,577,835</b>	<b>10.0</b>

Sources:

Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015;  
Indiana Bureau of Motor Vehicles, as of April 2, 2014

Notes:

- 1) Due to changes in Indiana BMV-reported licensing counts obtained in 2013, rates should not be compared to previous years' exhibits.
- 2) Excludes ages under 15 and over 109 years and cases with unknown or non-reported age.
- 3) All drivers includes cases where gender information was not reported.

**Table 7.5. Persons killed in Indiana collisions involving an alcohol-impaired driver, by person type, 2014**

Person type	Individuals in alcohol-impaired collisions		
	Killed	Survived	Total involved
Impaired drivers	68	4,518	4,586
Passengers of impaired drivers	19	264	283
Unimpaired drivers	8	1,460	1,468
Passengers of unimpaired drivers	3	188	191
Non-motorists (unimpaired)	3	37	40
Non-motorists (impaired)	0	2	2
<b>Total</b>	<b>101</b>	<b>6,469</b>	<b>6,570</b>

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

**Table 7.6. Drivers in Indiana collisions that were tested for alcohol or other substances, by age and injury severity, 2014**

Driver age	Driver injuries					
	Fatal			Incapacitating		
	Tested	Total	Tested as % total	Tested	Total	Tested as % total
15 to 20	60	88	68.2%	130	873	14.9%
21 to 24	77	114	67.5%	183	787	23.3%
25 to 34	161	221	72.9%	314	1,479	21.2%
35 to 44	129	184	70.1%	220	1,120	19.6%
45 to 54	151	227	66.5%	165	1,082	15.2%
55 to 64	89	137	65.0%	125	886	14.1%
65 to 74	48	83	57.8%	46	481	9.6%
75 and older	18	57	31.6%	24	294	8.2%
<b>All ages</b>	<b>733</b>	<b>1,111</b>	<b>66.0%</b>	<b>1,207</b>	<b>7,002</b>	<b>17.2%</b>

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

**Notes:**

- 1) *Tested* includes drivers for which ARIES reports an *alcohol, drug, or alcohol/drug* test was given.
- 2) Excludes ages under 15 and over 109 years and cases with unknown or non-reported age.

**Table 7.7. BAC results for drivers involved in Indiana fatal collisions, 2014**

Driver Age	Count by BAC result (g/dL)				Total	Reported (%)	0.08 or more as % of	
	0.00	0.01 < 0.08	0.08 or more	Not reported			Reported	Total
<b>Surviving</b>	<b>293</b>	<b>13</b>	<b>27</b>	<b>264</b>	<b>597</b>	<b>55.8%</b>	<b>8.1%</b>	<b>4.5%</b>
15 to 20	21	1	4	28	54	48.1%	15.4%	7.4%
21 to 24	26	2	5	29	62	53.2%	15.2%	8.1%
25 to 34	59	2	8	53	122	56.6%	11.6%	6.6%
35 to 44	53	2	6	47	108	56.5%	9.8%	5.6%
45 to 54	64	4	3	53	124	57.3%	4.2%	2.4%
55 to 64	46	1	0	23	70	67.1%	0.0%	0.0%
65 to 74	17	0	1	17	35	51.4%	5.6%	2.9%
75 and older	7	1	0	14	22	36.4%	0.0%	0.0%
<b>Killed</b>	<b>87</b>	<b>4</b>	<b>68</b>	<b>355</b>	<b>514</b>	<b>30.9%</b>	<b>42.8%</b>	<b>13.2%</b>
15 to 20	12	0	0	22	34	35.3%	0.0%	0.0%
21 to 24	10	0	6	36	52	30.8%	37.5%	11.5%
25 to 34	16	1	20	62	99	37.4%	54.1%	20.2%
35 to 44	9	2	12	53	76	30.3%	52.2%	15.8%
45 to 54	12	0	19	72	103	30.1%	61.3%	18.4%
55 to 64	15	0	9	43	67	35.8%	37.5%	13.4%
65 to 74	7	1	2	38	48	20.8%	20.0%	4.2%
75 and older	6	0	0	29	35	17.1%	0.0%	0.0%

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Note: Excludes ages under 15 and over 109 years and cases with unknown or non-reported age.

**Table 7.8. Indiana collisions and individual injuries in collisions involving an alcohol-impaired driver, by road class, 2014**

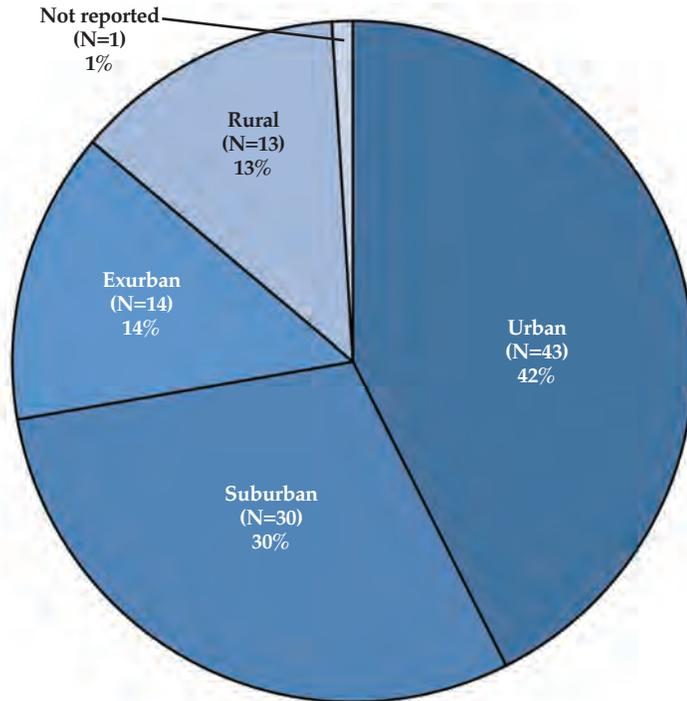
Road class	Collisions			Individual injuries								
				Fatal			Incapacitating			Non-incapacitating		
	Total	Impaired	Impaired as % all collisions in road class	Total	In impaired collisions	Impaired as % fatalities in road class	Total	In impaired collisions	Impaired as % incap injuries in road class	Total	In impaired collisions	Impaired as % non-incap injuries in road class
Local/city roads	92,126	2,095	2.3%	210	31	14.8%	2,013	125	6.2%	21,001	687	3.3%
State roads	28,585	554	1.9%	190	18	9.5%	1,192	43	3.6%	7,356	229	3.1%
County roads	25,336	877	3.5%	143	31	21.7%	813	65	8.0%	4,661	307	6.6%
US routes	21,781	370	1.7%	107	12	11.2%	771	36	4.7%	5,339	176	3.3%
Interstates	19,572	322	1.6%	82	8	9.8%	544	33	6.1%	3,229	124	3.8%
Unknown	18,132	356	2.0%	11	1	9.1%	160	13	8.1%	1,440	42	2.9%
<b>All roads</b>	<b>205,532</b>	<b>4,574</b>	<b>2.2%</b>	<b>743</b>	<b>101</b>	<b>13.6%</b>	<b>5,493</b>	<b>315</b>	<b>5.7%</b>	<b>43,026</b>	<b>1,565</b>	<b>3.6%</b>

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) Non-incapacitating includes possible, +, not reported, refused, and unknown injury status categories.
- 2) Unknown includes not reported (Null).

Figure 7.1. Fatalities in Indiana crashes involving an alcohol-impaired driver, by collision locality, 2014



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Note: See glossary for definition of Census locality.

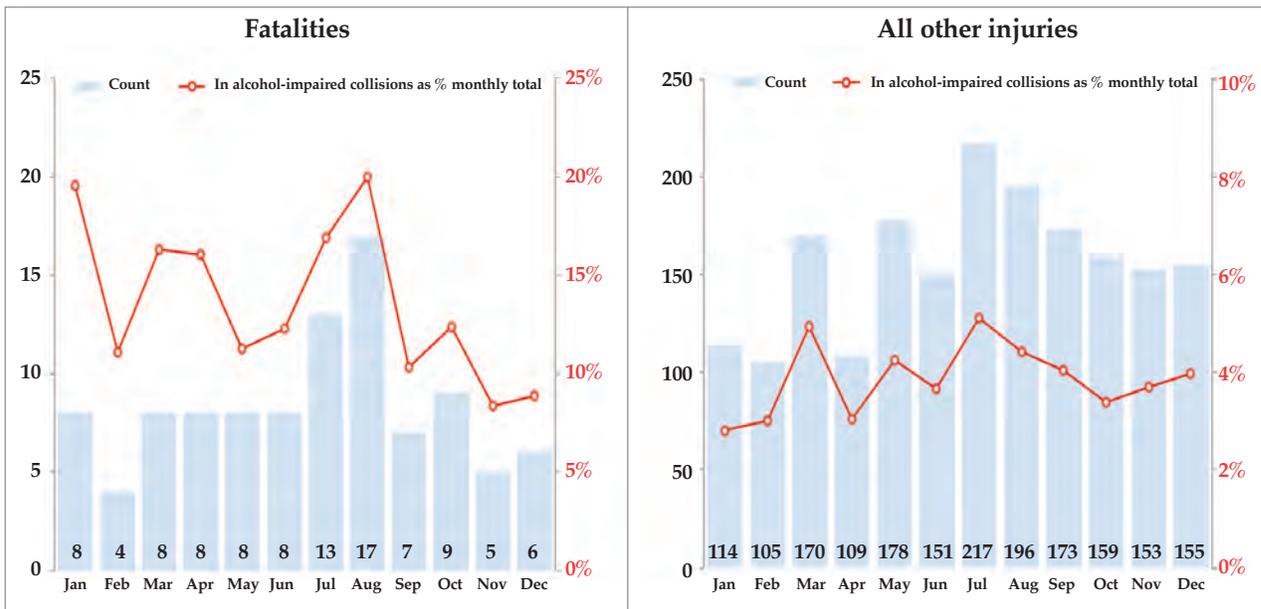
Table 7.9. Fatality rates in Indiana collisions involving an alcohol-impaired driver, by locality, 2014

Locality	All fatalities	Persons killed in impaired collisions	Impairment rate
Urban	299	43	14.4%
Suburban	179	30	16.8%
Exurban	110	14	12.7%
Rural	120	13	10.8%
Unknown	35	1	2.9%
<b>Total</b>	<b>743</b>	<b>101</b>	<b>13.6%</b>

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Note: See glossary for definition of locality.

Figure 7.2. Fatalities and injuries in collisions involving an alcohol-impaired driver, by month, 2014



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Note: All other injuries include incapacitating, possible, +, not reported, refused, and unknown injury status categories.

Table 7.10. Drivers in Indiana collisions, by driver age, alcohol impairment, and number of vehicles involved, 2014

Driver age	Single-vehicle			Multiple-vehicle		
	Alcohol-impaired	Total	% impaired	Alcohol-impaired	Total	% impaired
<b>All drivers</b>	<b>2,554</b>	<b>59,037</b>	<b>4.3%</b>	<b>2,027</b>	<b>255,690</b>	<b>0.8%</b>
15 to 20	222	8,679	2.6%	98	31,781	0.3%
21 to 24	575	7,511	7.7%	294	27,375	1.1%
25 to 34	763	12,652	6.0%	578	51,603	1.1%
35 to 44	462	9,855	4.7%	404	42,898	0.9%
45 to 54	333	8,954	3.7%	376	40,475	0.9%
55 to 64	143	6,834	2.1%	212	32,976	0.6%
65 to 74	50	3,046	1.6%	51	18,071	0.3%
75 and older	5	1,488	0.3%	14	10,252	0.1%
Unknown	1	18	5.6%	0	259	0.0%
<b>Drivers killed</b>	<b>46</b>	<b>227</b>	<b>20.3%</b>	<b>22</b>	<b>287</b>	<b>7.7%</b>
15 to 20	0	16	0.0%	0	18	0.0%
21 to 24	5	30	16.7%	1	22	4.5%
25 to 34	13	56	23.2%	7	43	16.3%
35 to 44	8	30	26.7%	4	46	8.7%
45 to 54	15	43	34.9%	4	60	6.7%
55 to 64	5	25	20.0%	4	42	9.5%
65 to 74	0	17	0.0%	2	31	6.5%
75 and older	0	10	0.0%	0	25	0.0%

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Note: Excludes ages under 15 and over 109 years.

Table 7.11. Drivers involved in Indiana crashes, by vehicle type, injury severity, and alcohol impairment, 2014

Vehicle type	Fatal			Incapacitating			Non-incapacitating			Not injured			All drivers		
	Alcohol-impaired	Total involved	% impaired	Alcohol-impaired	Total involved	% impaired	Alcohol-impaired	Total involved	% impaired	Alcohol-impaired	Total involved	% impaired	Alcohol-impaired	Total involved	% impaired
Passenger cars	28	236	11.9%	99	2,177	4.5%	480	19,379	2.5%	2,243	174,437	1.3%	2,850	196,229	1.5%
Sport utility vehicles	8	51	15.7%	23	449	5.1%	128	4,174	3.1%	421	38,995	1.1%	580	43,669	1.3%
Pickup trucks	13	77	16.9%	28	372	7.5%	142	2,901	4.9%	639	34,783	1.8%	822	38,133	2.2%
Vans	2	19	10.5%	3	118	2.5%	22	1,415	1.6%	111	13,483	0.8%	138	15,035	0.9%
Large trucks	0	13	0.0%	0	89	0.0%	4	647	0.6%	19	13,875	0.1%	23	14,624	0.2%
Motorcycles	15	111	13.5%	31	489	6.3%	74	1,827	4.1%	26	878	3.0%	146	3,305	4.4%
Other vehicles	1	5	20.0%	1	14	7.1%	4	123	3.3%	12	2,805	0.4%	18	2,947	0.6%
Unknown	1	5	20.0%	1	23	4.3%	3	115	2.6%	4	1,444	0.3%	9	1,587	0.6%
<b>Total</b>	<b>68</b>	<b>517</b>	<b>13.2%</b>	<b>186</b>	<b>3,731</b>	<b>5.0%</b>	<b>857</b>	<b>30,581</b>	<b>2.8%</b>	<b>3,475</b>	<b>280,700</b>	<b>1.2%</b>	<b>4,586</b>	<b>315,529</b>	<b>1.5%</b>

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

1) Excludes non-motorists and drivers of animal-drawn vehicles.

2) Non-incapacitating includes possible, +, not reported, refused, and unknown injury status categories.

3) Alcohol-impaired includes drivers with BAC of 0.08 g/dL or higher.



CHAPTER 8  
**SPEED**



## SPEED, 2014

A collision is defined as speed-related in Indiana ARIES data if any of the following conditions is met: *Unsafe speed* or *speed too fast for weather conditions* is listed as the primary or a contributing factor of the collision; or a vehicle driver is issued a speeding citation. In 2014, 24,810 speed-related collisions occurred in Indiana, 33 percent more than in 2013 (Figure 8.1).

From 2010 to 2014, speed-related collisions increased 8 percent annually (Table 8.1). Speed-related fatal collisions increased 7 percent annually during the same period. In 2014, 26 percent of all fatal collisions involved speeding, the same proportion as in 2013; collisions involving speeding were 1.7 times more likely to result in a fatality or incapacitating injury than collisions that did not.

### Speed-related Criteria

Twelve percent of all 2014 collisions were speed-related (Table 8.2). Considering the conditions used to define speed involvement, 8 percent (17,363) of all 2014 collisions involved *speeding too fast for weather conditions* and 4 percent (7,437) involved *unsafe speed*. One percent (2,554) of speed-related collisions in 2014 were linked to a *speed-related citation*.

### Fatalities and Injuries

There were 38,574 persons involved in speed-related collisions in 2014—12 percent of all individuals in collisions (Table 8.3). Of these, 201 were killed (27 percent of all fatalities), 1,050 were incapacitated (19 percent of all incapacitating injuries), and 6,149 suffered non-incapacitating injuries (15 percent of all non-incapacitating injuries). The rate of fatal injuries per 1,000 involved in speed-related collisions rose from 5.3 in 2010 to a five-year high of 7.7 in 2013, and declined to 5.2 in 2014 (Figure 8.2).

### Vehicle Type

In 2014, 8 percent of vehicles in collisions were speeding—a rate higher than 2012 and 2013 rates (Figure 8.3). Among vehicle types, motorcycles remained the most likely to have been speeding at the time of collision (11 percent in 2014). In 2014, 147 of every 1,000 occupants riding in speeding vehicles in collisions suffered an injury, compared to 96 of every 1,000 in vehicles not speeding (Figure 8.4).

### Speeding Driver Characteristics

As Table 8.4 illustrates, between 2010 and 2014, the relative proportion of speed-related crashes to all crashes decreases with increasing driver age. Among drivers involved in collisions, young males are the most likely to be speeding. In 2014, 14 percent of male drivers and 10 percent of female drivers in the 15- to 20-year old age group were speeding at the time of the colli-

sion. Only 3 percent of male drivers and 2 percent of female drivers in the 75 and over age group were reported to be speeding in collisions in 2014.

### Alcohol Involvement

Since 2010, in Indiana, the number of legally impaired drivers (i.e., blood alcohol content of 0.08 g/dL or higher) involved in speed-related collisions rose from 807 in 2010 to 904 in 2012 and fell to 838 in 2014 (Figure 8.5). The proportion of drivers involved in speed-related collisions that were also impaired at the time of collision increased from 4.6 in 2010 to 5.7 in 2012, and declined to a five-year low of 3.5 in 2014. Five percent of speeding drivers in the 21- to 24-year old age group were impaired in 2014. In contrast, only 2 percent of non-speeding drivers in the same age group were impaired (Table 8.5).

### Restraint Use

Restraint use rates among vehicle occupants involved in speed-related collisions increased annually between 2010 and 2014 across all injury categories (Table 8.6). The rate of restraint use among individuals involved in speed-related collisions decreases as the severity of injury increases. Among those who sustained no injuries in speed-related collisions in 2014, the rate of restraint use was 92 percent, while only 34 percent of individuals killed in speed-related collisions were restrained.

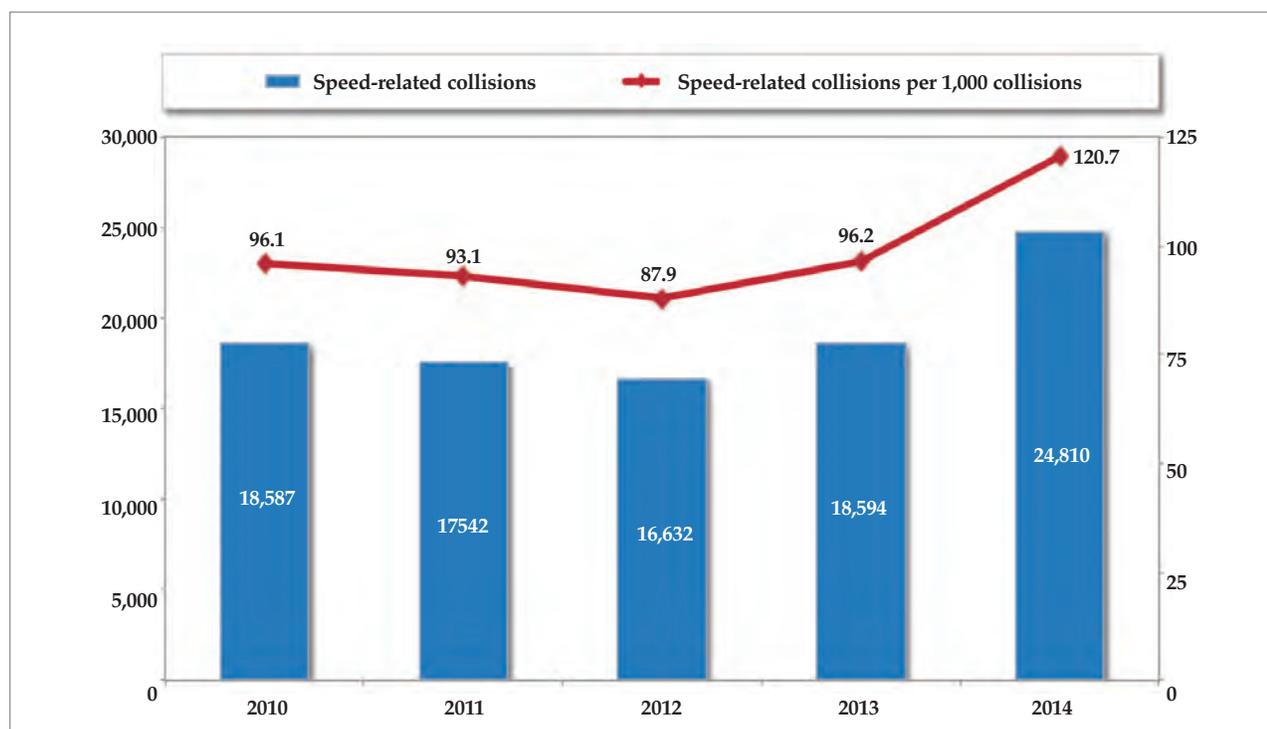
### Month, Day, and Time

Between 2010 and 2014, the winter months of December, January, and February had the highest incidence of speed-related collisions (Table 8.7). In 2014, with regard to time of day, the likelihood of speed involvement in collisions peaked during morning (8am-10am) hours, declined during late morning and afternoon hours, and then steadily increased from evening (around 6pm) into early morning (Table 8.8). Sunday, Saturday, and Thursday carried a higher probability of speed involvement.

### Census Locale and Road Type

The distribution of speed-related collisions varies by U.S. census locale (Figure 8.6). While the majority (72 percent) of total collisions in 2014 occurred in *urban* areas, fatal speed-related crashes were more common in *exurban* (31 percent) areas. Considering road classes, *county roads*, *state roads*, and *US routes* account for a disproportionate share of fatal collisions—relative to their share of total collisions (Figure 8.7). In 2014, 51 percent of total collisions occurred on *local/city roads* and 12 percent occurred on *county roads*. However, 29 percent of fatal collisions happened on *local/city roads* (32 percent were speed-related), compared to 20 percent on *county roads* (33 percent speed-related).

**Figure 8.1. Indiana speed-related collisions, 2010-2014**



Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

**Table 8.1. Indiana collisions, by speed involvement and collision severity, 2010-2014**

Speed involvement/collision severity	Count of collisions					Annual rate of change	
	2010	2011	2012	2013	2014	2013-14	2010-14
<b>All collisions</b>	<b>193,379</b>	<b>188,453</b>	<b>189,160</b>	<b>193,205</b>	<b>205,532</b>	<b>6.4%</b>	<b>1.5%</b>
<b>Speed-related</b>	<b>18,587</b>	<b>17,542</b>	<b>16,632</b>	<b>18,594</b>	<b>24,810</b>	<b>33.4%</b>	<b>7.5%</b>
Fatal	139	132	163	185	184	-0.5%	7.3%
Incapacitating	463	475	508	471	800	69.9%	14.7%
Non-incapacitating	3,691	3,636	3,551	3,791	4,321	14.0%	4.0%
Property damage	14,294	13,299	12,410	14,147	19,505	37.9%	8.1%
<b>Not speed-related</b>	<b>174,792</b>	<b>170,911</b>	<b>172,528</b>	<b>174,611</b>	<b>180,722</b>	<b>3.5%</b>	<b>0.8%</b>
Fatal	561	543	557	525	518	-1.3%	-2.0%
Incapacitating	2,456	2,391	2,732	2,466	3,618	46.7%	10.2%
Non-incapacitating	27,537	26,287	27,341	26,118	25,084	-4.0%	-2.3%
Property damage	144,238	141,690	141,898	145,502	151,502	4.1%	1.2%
<b>% Speed-related of all</b>	<b>9.6%</b>	<b>9.3%</b>	<b>8.8%</b>	<b>9.6%</b>	<b>12.1%</b>	<b>25.4%</b>	<b>5.9%</b>
Fatal	19.9%	19.6%	22.6%	26.1%	26.2%	0.6%	7.2%
Incapacitating	15.9%	16.6%	15.7%	16.0%	18.1%	12.9%	3.4%
Non-incapacitating	11.8%	12.2%	11.5%	12.7%	14.7%	15.9%	5.6%
Property damage	9.0%	8.6%	8.0%	8.9%	11.4%	28.7%	6.1%
<i>Relative risk of fatal or incapacitating collision (when speed is a factor)</i>	1.9	2.0	2.1	2.1	1.7		
Lower limit	1.7	1.8	1.9	1.8	1.6		
Upper limit	2.1	2.3	2.4	2.3	1.9		

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

**Notes:**

- 1) *Non-incapacitating* collisions are those with no fatalities and at least one injury reported as *non-incapacitating* or *possible*.
- 2) *Relative risk of fatal or incapacitating collision* is the ratio of the percent of *speed-related* collisions with *fatal* or *incapacitating* injuries compared to the percent of *not speed-related* collisions with *fatal* or *incapacitating* injuries. Ratios greater than 1 indicate a higher risk of fatality or incapacitating injury for *speed-related* collisions.
- 3) All *relative risk* estimates are statistically significant ( $p < 0.01$ ). For example, in 99 out of 100 cases, the relative risk would fall within the lower and upper limit range presented.

**Table 8.2. Indiana collisions, by speed involvement, speed-related criteria, and collision severity, 2010-2014**

Speed involvement criteria/ Collision severity	Count of collisions					Annual rate of change	
	2010	2011	2012	2013	2014	2013-14	2010-14
<b>Total collisions</b>	<b>193,379</b>	<b>188,453</b>	<b>189,160</b>	<b>193,205</b>	<b>205,532</b>	<b>6.4%</b>	<b>1.5%</b>
Fatal	700	675	720	710	702	-1.1%	0.1%
Non-fatal injury	34,147	32,789	34,132	32,846	33,823	3.0%	-0.2%
Property damage	158,532	154,989	154,308	159,649	171,007	7.1%	1.9%
<b>All speed-related collisions</b>	<b>18,587</b>	<b>17,542</b>	<b>16,632</b>	<b>18,594</b>	<b>24,810</b>	<b>33.4%</b>	<b>7.5%</b>
Fatal	139	132	163	185	184	-0.5%	7.3%
Non-fatal injury	4,154	4,111	4,059	4,262	5,121	20.2%	5.4%
Property damage	14,294	13,299	12,410	14,147	19,505	37.9%	8.1%
<b>Speed-related as % of total</b>	<b>9.6%</b>	<b>9.3%</b>	<b>8.8%</b>	<b>9.6%</b>	<b>12.1%</b>	<b>25.4%</b>	<b>5.9%</b>
Fatal	19.9%	19.6%	22.6%	26.1%	26.2%	0.6%	7.2%
Non-fatal injury	12.2%	12.5%	11.9%	13.0%	15.1%	16.7%	5.6%
Property damage	9.0%	8.6%	8.0%	8.9%	11.4%	28.7%	6.1%
<b>Speed too fast for weather conditions</b>	<b>12,124</b>	<b>11,142</b>	<b>9,434</b>	<b>11,417</b>	<b>17,363</b>	<b>52.1%</b>	<b>9.4%</b>
Fatal	26	25	27	38	40	5.3%	11.4%
Non-fatal injury	2,029	1,922	1,642	1,916	2,769	44.5%	8.1%
Property damage	10,069	9,195	7,765	9,463	14,554	53.8%	9.6%
<b>Unsafe speed</b>	<b>6,157</b>	<b>6,115</b>	<b>6,756</b>	<b>6,846</b>	<b>7,437</b>	<b>8.6%</b>	<b>4.8%</b>
Fatal	113	106	137	153	148	-3.3%	7.0%
Non-fatal injury	1,989	2,074	2,271	2,210	2,303	4.2%	3.7%
Property damage	4,055	3,935	4,348	4,483	4,986	11.2%	5.3%
<b>Speed-related citation</b>	<b>2,404</b>	<b>2,430</b>	<b>2,301</b>	<b>2,447</b>	<b>2,554</b>	<b>4.4%</b>	<b>1.5%</b>
Fatal	12	7	9	11	9	-18.2%	-6.9%
Non-fatal injury	746	787	752	777	715	-8.0%	-1.1%
Property damage	1,646	1,636	1,540	1,659	1,830	10.3%	2.7%

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

**Notes:**

- 1) *Non-fatal injury* collisions are those with no fatalities and at least one injury reported as *incapacitating, non-incapacitating, or possible*.
- 2) *Speed-related criteria* categories are not mutually exclusive. All *speed-related* collisions may not equal total of individual categories.

**Table 8.3. Individuals involved in Indiana collisions, by speed involvement and injury status, 2010-2014**

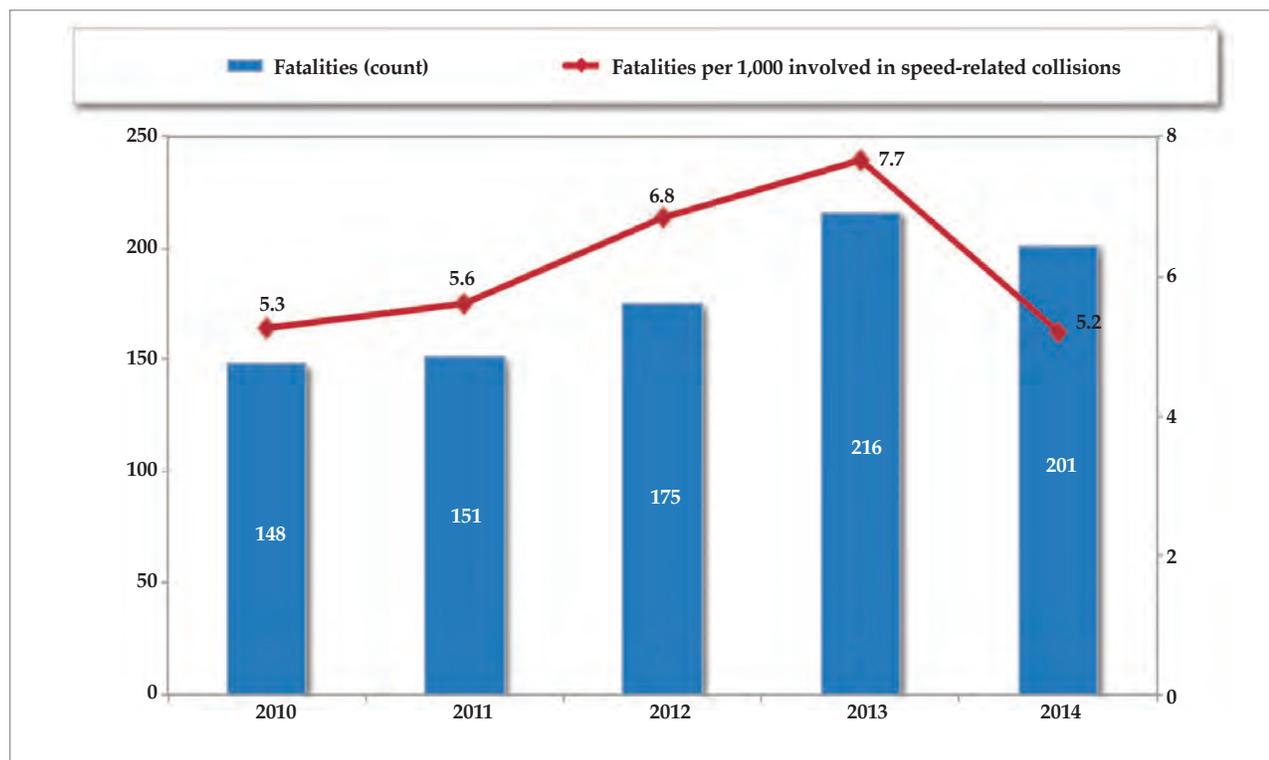
Speed involvement/injury status	Count of individuals					% 2014 total	Annual rate of change	
	2010	2011	2012	2013	2014		2013-14	2010-14
<b>All individuals</b>	<b>311,889</b>	<b>303,904</b>	<b>306,264</b>	<b>310,154</b>	<b>330,556</b>	<b>100.0%</b>	<b>6.6%</b>	<b>1.5%</b>
<b>Speed-related</b>	<b>28,064</b>	<b>26,994</b>	<b>25,569</b>	<b>28,190</b>	<b>38,574</b>	<b>100.0%</b>	<b>36.8%</b>	<b>9.5%</b>
Fatal	148	151	175	216	201	0.5%	-6.9%	8.6%
Incapacitating	571	577	646	586	1,050	2.7%	79.2%	20.7%
Non-incapacitating	5,420	5,276	5,146	5,484	6,149	15.9%	12.1%	3.4%
Other injury	227	211	226	214	296	0.8%	38.3%	8.3%
Not injured	21,698	20,779	19,376	21,690	30,878	80.0%	42.4%	10.8%
<b>Not speed-related</b>	<b>283,825</b>	<b>276,910</b>	<b>280,695</b>	<b>281,964</b>	<b>291,982</b>	<b>100.0%</b>	<b>3.6%</b>	<b>0.7%</b>
Fatal	604	595	605	566	542	0.2%	-4.2%	-2.6%
Incapacitating	2,876	2,833	3,168	2,853	4,436	1.5%	55.5%	14.0%
Non-incapacitating	38,790	36,607	38,239	36,388	34,692	11.9%	-4.7%	-2.7%
Other injury	2,282	1,699	1,697	1,974	1,864	0.6%	-5.6%	-3.7%
Not injured	239,273	235,176	236,986	240,183	250,448	85.8%	4.3%	1.2%
<b>% Speed-related</b>	<b>9.0%</b>	<b>8.9%</b>	<b>8.3%</b>	<b>9.1%</b>	<b>11.7%</b>	<b>-</b>	<b>28.4%</b>	<b>7.5%</b>
Fatal	19.7%	20.2%	22.4%	27.6%	27.1%	-	-2.1%	8.7%
Incapacitating	16.6%	16.9%	16.9%	17.0%	19.1%	-	12.3%	3.8%
Non-incapacitating	12.3%	12.6%	11.9%	13.1%	15.1%	-	15.0%	5.6%
Other injury	9.0%	11.0%	11.8%	9.8%	13.7%	-	40.1%	13.0%
Not injured	8.3%	8.1%	7.6%	8.3%	11.0%	-	32.5%	8.2%

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

**Notes:**

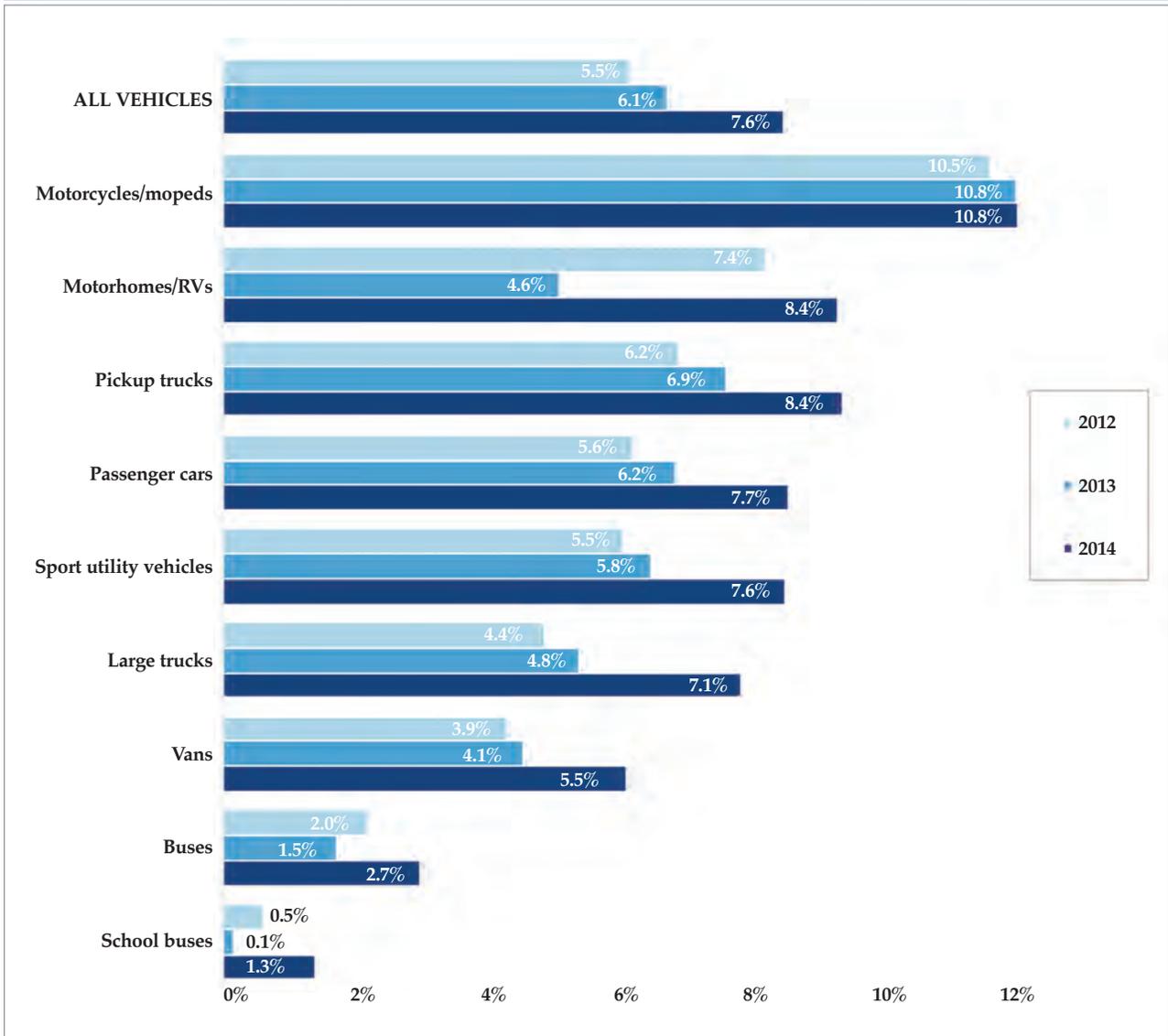
- 1) Includes individuals identified as *drivers, injured occupants, pedestrians, and pedalcyclists*. *Animal-drawn vehicle* occupants are excluded.
- 2) *Non-incapacitating* includes non-incapacitating and possible injuries.
- 3) *Other injury* includes injuries reported as *refused, unknown, and not reported*.
- 4) *Not injured* status includes individuals involved in collisions reported as *null* values in the injury status code field. While reporting officers are instructed to enter all drivers in ARIES, passengers are only to be entered in the crash report if an injury occurs; therefore, not injured counts should be interpreted with caution.

**Figure 8.2. Indiana traffic fatalities in speed-related collisions, 2010-2014**



Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

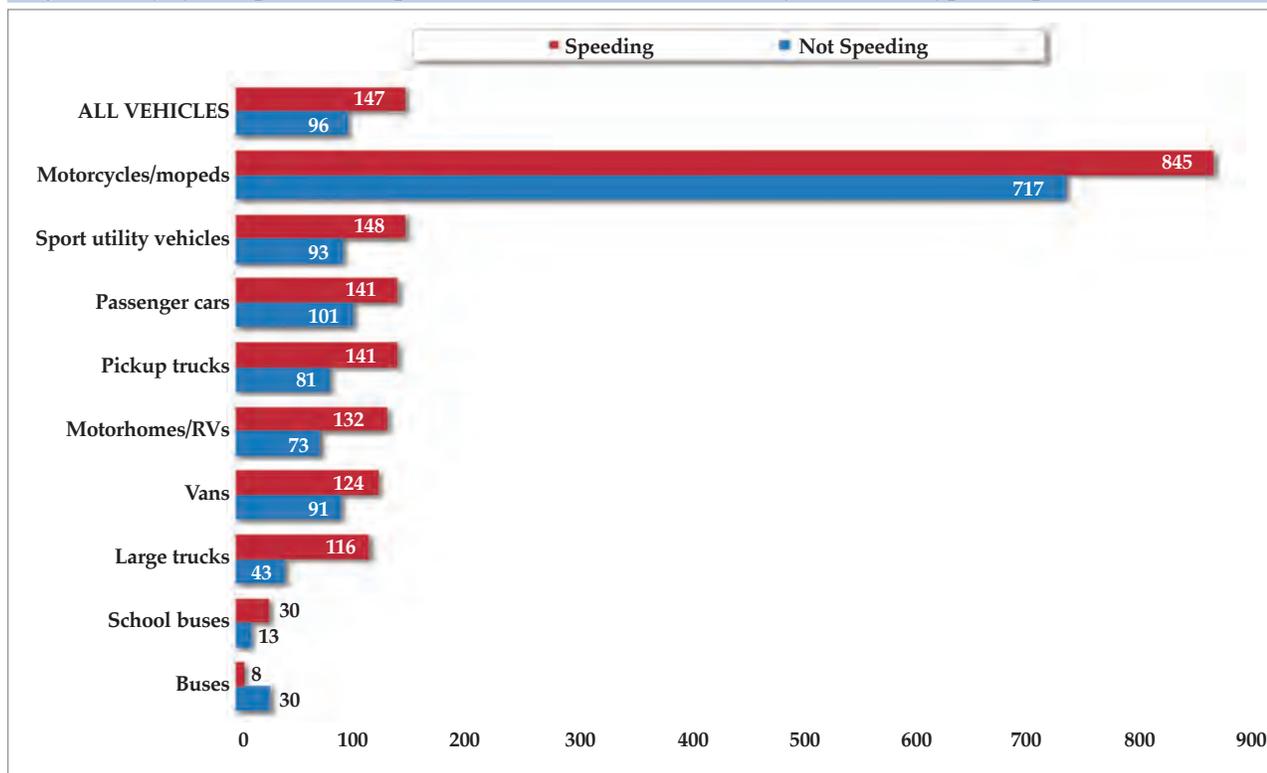
Figure 8.3. Vehicles speeding as a percent of all vehicles involved in Indiana collisions, by vehicle type, 2012-2014



Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Note: Excludes vehicle types of *animal-drawn vehicle (non-motor vehicle), farm vehicle, combination vehicle, pedestrian, bicycle, and unknown type.*

**Figure 8.4. Injury rates per 1,000 occupants involved in Indiana collisions, by vehicle unit type and speed involvement, 2014**



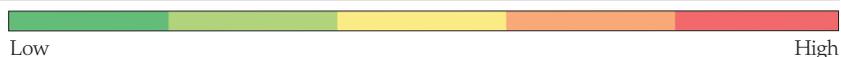
Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

**Notes:**

- 1) Injury includes fatal, incapacitating, non-incapacitating, possible, and other injury types.
- 2) Excludes vehicle types of animal-drawn vehicle (non-motor vehicle), farm vehicle, combination vehicle, pedestrian, bicycle, and unknown.

**Table 8.4. Drivers speeding as a percent of all drivers involved in Indiana collisions, by age group and gender, 2010-2014**

Age group	2010		2011		2012		2013		2014		Annual rate of change, 2010-14	
	Female	Male	Female	Male								
15-20	8.1%	12.2%	8.1%	11.9%	7.3%	12.2%	8.9%	12.4%	9.8%	14.0%	4.7%	3.4%
21-24	6.7%	9.9%	6.9%	10.2%	5.9%	9.4%	7.6%	10.4%	9.5%	12.7%	9.2%	6.4%
25-34	5.5%	8.0%	5.6%	7.5%	4.7%	7.5%	5.5%	8.5%	7.5%	10.8%	8.1%	7.8%
35-44	4.6%	5.7%	4.5%	5.6%	3.9%	5.4%	4.5%	5.7%	5.7%	7.6%	5.6%	7.2%
45-54	3.3%	4.8%	3.5%	4.7%	3.4%	4.3%	3.3%	4.5%	4.9%	6.2%	10.4%	6.9%
55-64	2.7%	3.8%	2.5%	3.5%	2.5%	3.5%	2.6%	3.7%	3.7%	5.2%	7.6%	8.4%
65-74	1.9%	2.9%	1.9%	2.7%	2.0%	2.8%	2.1%	2.8%	2.4%	3.8%	5.5%	7.3%
75 +	1.8%	2.9%	1.7%	2.2%	1.7%	2.2%	1.6%	2.2%	2.0%	3.1%	2.5%	2.0%
All ages	4.9%	6.9%	4.9%	6.6%	4.3%	6.4%	5.0%	6.9%	6.4%	8.6%	6.7%	5.7%

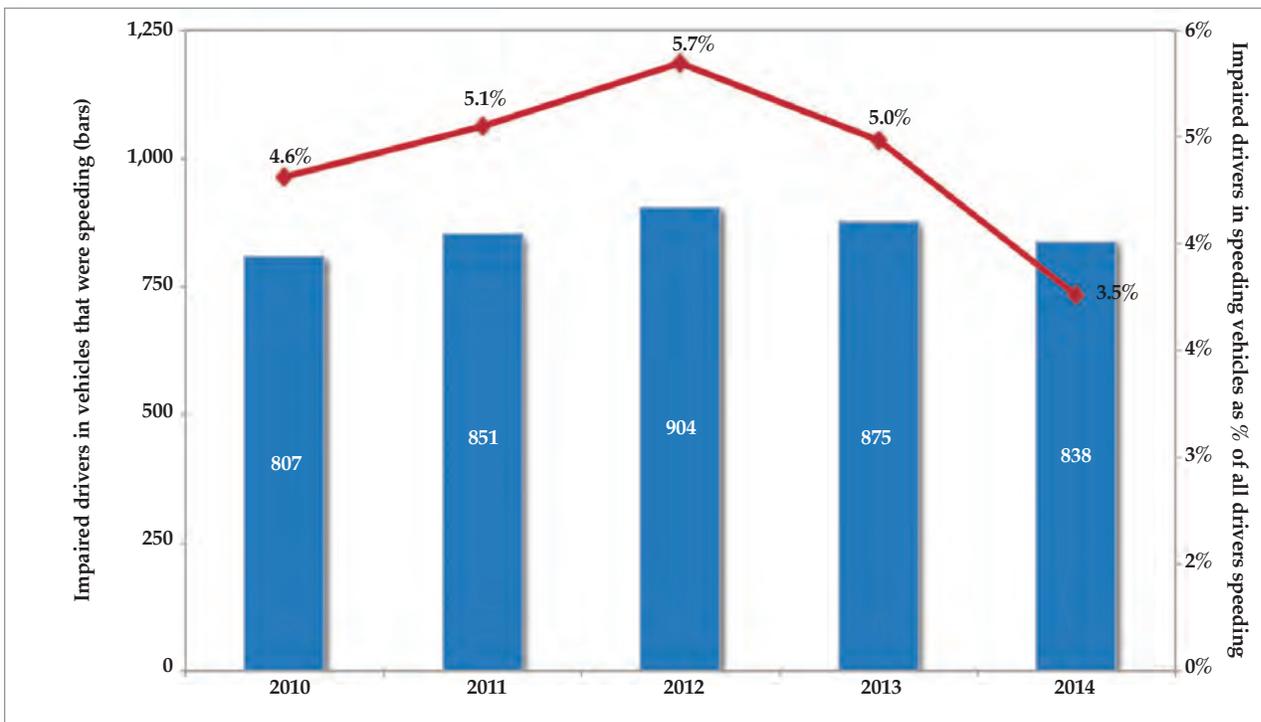


Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

**Notes:**

- 1) Data limited to drivers with valid gender and age reported.
- 2) Excludes drivers under 15 years old.

Figure 8.5. Drivers in vehicles that were speeding in Indiana collisions, by alcohol impairment, 2010-2014



Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) *Alcohol-impaired* includes drivers with blood alcohol count (BAC) of 0.08 g/dL or higher.
- 2) When considering the reported decreases in 2014 *alcohol-impaired* drivers, it is important to note that these numbers are likely to increase once BAC results reported after the March 23, 2015, extract are analyzed.

Table 8.5. Drivers involved in Indiana collisions, by age, speed involvement, and alcohol impairment, 2014

Age group	Not speeding			Speeding		
	Non-impaired	Impaired	% Impaired	Non-impaired	Impaired	% Impaired
15-20	35,368	235	0.7%	4,772	85	1.8%
21-24	30,289	675	2.2%	3,728	194	4.9%
25-34	57,201	1,085	1.9%	5,713	256	4.3%
35-44	48,475	710	1.4%	3,412	156	4.4%
45-54	46,020	611	1.3%	2,700	98	3.5%
55-64	37,672	317	0.8%	1,783	38	2.1%
65-74	20,345	92	0.5%	671	9	1.3%
75 +	11,407	19	0.2%	314	0	0.0%
<b>Total</b>	<b>286,777</b>	<b>3,744</b>	<b>1.3%</b>	<b>23,093</b>	<b>836</b>	<b>3.5%</b>



Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) Excludes drivers with unknown age or age under 15 years.
- 2) *Alcohol-impaired* includes drivers with blood alcohol count (BAC) of 0.08 g/dL or higher.

**Table 8.6. Individuals in vehicles where driver was reported to be speeding, by restraint use and injury status, 2010-2014**

Vehicle occupant injuries in speed-related collisions	Count of collisions					Annual rate of change	
	2010	2011	2012	2013	2014	2013-14	2010-14
<b>All occupants</b>	<b>19,020</b>	<b>17,966</b>	<b>17,201</b>	<b>19,115</b>	<b>25,395</b>	<b>32.9%</b>	<b>7.5%</b>
Properly restrained	16,446	15,457	14,561	16,443	22,561	37.2%	8.2%
<i>Restraint use rate</i>	86.5%	86.0%	84.7%	86.0%	88.8%	3.3%	0.7%
<b>Fatalities</b>	<b>120</b>	<b>124</b>	<b>143</b>	<b>191</b>	<b>172</b>	<b>-9.9%</b>	<b>9.4%</b>
Properly restrained	37	41	47	60	58	-3.3%	11.9%
<i>Restraint use rate</i>	30.8%	33.1%	32.9%	31.4%	33.7%	7.3%	2.3%
<b>Incapacitating injuries</b>	<b>435</b>	<b>447</b>	<b>485</b>	<b>463</b>	<b>770</b>	<b>66.3%</b>	<b>15.3%</b>
Properly restrained	225	222	224	213	471	121.1%	20.3%
<i>Restraint use rate</i>	51.7%	49.7%	46.2%	46.0%	61.2%	33.0%	4.3%
<b>Non-incapacitating injuries</b>	<b>3,621</b>	<b>3,479</b>	<b>3,438</b>	<b>3,676</b>	<b>3,957</b>	<b>7.6%</b>	<b>2.2%</b>
Properly restrained	2,830	2,643	2,543	2,792	3,189	14.2%	3.0%
<i>Restraint use rate</i>	78.2%	76.0%	74.0%	76.0%	80.6%	6.1%	0.8%
<b>Other injuries</b>	<b>122</b>	<b>121</b>	<b>133</b>	<b>128</b>	<b>164</b>	<b>28.1%</b>	<b>7.7%</b>
Properly restrained	97	100	105	100	138	38.0%	9.2%
<i>Restraint use rate</i>	79.5%	82.6%	78.9%	78.1%	84.1%	7.7%	1.4%
<b>Not injured</b>	<b>14,722</b>	<b>13,795</b>	<b>13,002</b>	<b>14,657</b>	<b>20,332</b>	<b>38.7%</b>	<b>8.4%</b>
Properly restrained	13,257	12,451	11,642	13,278	18,705	40.9%	9.0%
<i>Restraint use rate</i>	90.0%	90.3%	89.5%	90.6%	92.0%	1.6%	0.5%

Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) Counts are limited to drivers and injured vehicle occupants in vehicles where driver was reported to be speeding.
- 2) Non-incapacitating includes non-incapacitating and possible injuries.
- 3) Other injury includes injuries reported as refused, unknown, and not reported.
- 4) Not injured status includes individuals involved in collisions reported as null values in the injury status code field. While reporting officers are instructed to enter all drivers in ARIES, passengers are only to be entered in the crash report if an injury occurs; therefore, not injured counts should be interpreted with caution.

**Table 8.7. Total and speed-related traffic collisions, by month, 2010-2014**

Month	Total collisions					Speed-related collisions				
	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
Jan	17,072	18,848	17,446	15,487	23,532	3,144	4,438	3,619	2,233	7,683
Feb	17,413	16,257	14,177	14,258	19,371	3,720	3,083	1,812	2,295	4,323
Mar	13,397	12,755	14,598	15,949	15,514	693	818	1,063	2,410	2,165
Apr	14,183	13,716	13,891	14,038	14,192	727	841	777	891	926
May	15,422	15,149	15,985	16,325	15,904	894	922	896	935	871
Jun	15,475	14,846	15,142	15,267	15,364	852	834	756	918	931
Jul	15,068	14,232	14,457	15,017	14,912	838	726	820	883	824
Aug	14,954	15,010	15,511	15,502	15,636	718	787	912	822	1,032
Sep	14,954	15,165	14,889	15,765	15,716	738	1,039	935	890	888
Oct	17,048	17,312	17,656	17,640	18,805	836	959	1,243	1,203	1,312
Nov	17,292	18,452	16,615	18,449	19,336	1,076	1,512	727	1,420	2,235
Dec	21,101	16,711	18,793	19,508	17,250	4,351	1,583	3,072	3,694	1,620
<b>Total</b>	<b>193,379</b>	<b>188,453</b>	<b>189,160</b>	<b>193,205</b>	<b>205,532</b>	<b>18,587</b>	<b>17,542</b>	<b>16,632</b>	<b>18,594</b>	<b>24,810</b>
<i>High</i>	Dec	Jan	Dec	Dec	Jan	Dec	Jan	Jan	Dec	Jan
<i>Low</i>	Mar	Mar	Apr	Apr	Apr	Mar	Jul	Nov	Aug	Jul



Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Note: Color-scales are illustrated to show months from low to high for the entire 5-year period, 2010-2014.

**Table 8.8. Speed-related collisions as a percent of all Indiana collisions, by time of day and day of week, 2014**

Time	Sun	Mon	Tue	Wed	Thu	Fri	Sat	% Speed-related by hour
12am-	16.4%	12.8%	13.9%	15.1%	13.8%	10.6%	12.9%	13.8%
1am-	18.5%	18.8%	16.2%	18.1%	16.9%	15.4%	15.6%	17.1%
2am-	18.8%	16.8%	15.1%	17.7%	16.8%	18.8%	17.8%	17.7%
3am-	15.8%	12.7%	15.2%	13.9%	20.7%	21.3%	19.5%	17.4%
4am-	15.2%	16.3%	18.5%	18.0%	15.2%	15.5%	17.5%	16.6%
5am-	15.3%	14.6%	21.3%	17.5%	14.4%	14.6%	20.5%	17.0%
6am-	19.0%	11.0%	19.1%	15.5%	16.0%	15.5%	16.0%	15.9%
7am-	22.7%	12.6%	20.1%	12.9%	11.9%	15.6%	25.1%	15.8%
8am-	28.0%	11.7%	19.3%	14.3%	17.8%	16.5%	26.9%	17.9%
9am-	24.6%	12.8%	20.0%	18.4%	24.3%	11.9%	21.7%	18.9%
10am-	20.3%	12.7%	14.0%	15.5%	23.0%	9.7%	14.1%	15.4%
11am-	14.3%	10.5%	11.5%	11.3%	18.8%	8.6%	9.5%	12.0%
12pm-	10.5%	8.5%	9.8%	8.6%	12.1%	8.5%	8.6%	9.5%
1pm-	10.0%	9.2%	9.5%	8.7%	11.4%	8.7%	10.2%	9.7%
2pm-	9.0%	7.8%	8.3%	8.2%	11.0%	9.1%	11.7%	9.3%
3pm-	9.9%	9.1%	9.4%	9.1%	9.9%	9.1%	11.6%	9.6%
4pm-	9.7%	9.2%	9.1%	7.7%	10.0%	8.3%	11.3%	9.2%
5pm-	12.5%	8.5%	7.1%	7.9%	10.5%	8.1%	11.4%	9.1%
6pm-	10.3%	8.6%	8.4%	7.7%	10.2%	8.5%	10.3%	9.1%
7pm-	11.1%	9.3%	10.1%	9.5%	10.6%	9.0%	10.9%	10.0%
8pm-	12.2%	9.1%	10.2%	9.7%	11.7%	9.4%	12.6%	10.7%
9pm-	12.5%	9.5%	9.0%	11.7%	13.2%	12.0%	12.0%	11.5%
10pm-	13.4%	12.7%	11.1%	14.1%	13.8%	11.2%	15.3%	13.1%
11pm-	13.7%	14.1%	13.7%	13.3%	13.2%	13.5%	15.2%	13.9%
<b>% Speed-related by day</b>	<b>13.9%</b>	<b>10.3%</b>	<b>12.3%</b>	<b>11.1%</b>	<b>13.6%</b>	<b>10.5%</b>	<b>13.6%</b>	<b>12.1%</b>

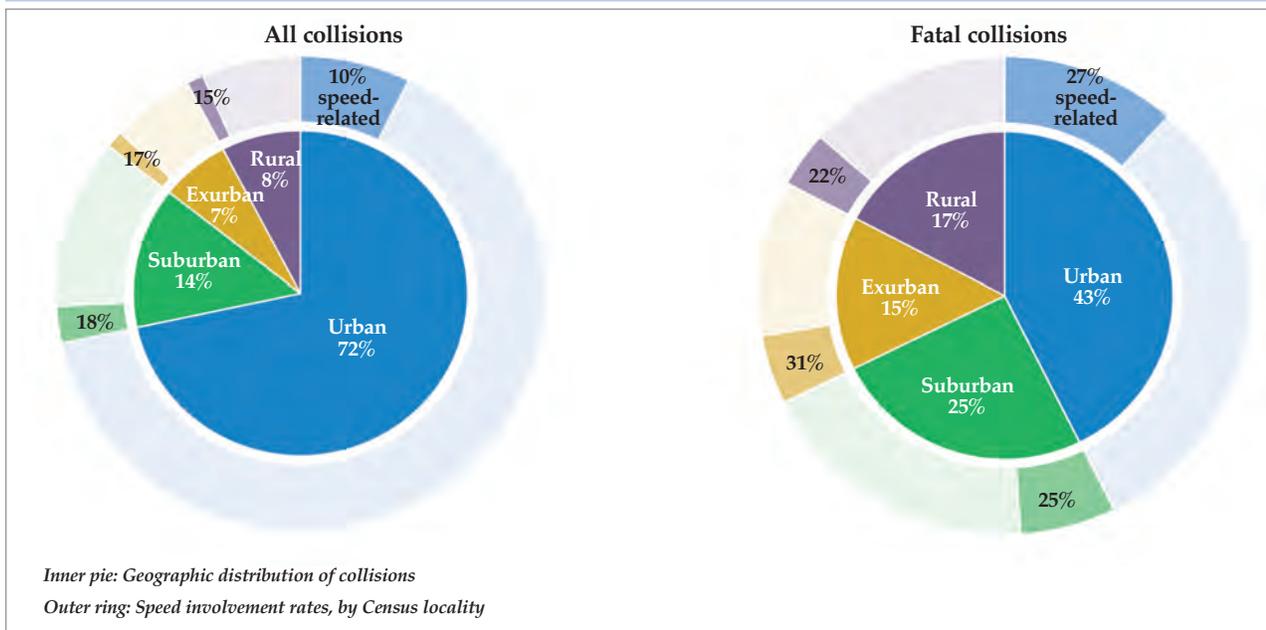


Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

**Notes:**

- 1) Includes collisions where valid time was reported.
- 2) Color scale applies to all days/times.

**Figure 8.6. Distribution of total and fatal crashes and rates of speed involvement, by Census locale, 2014**

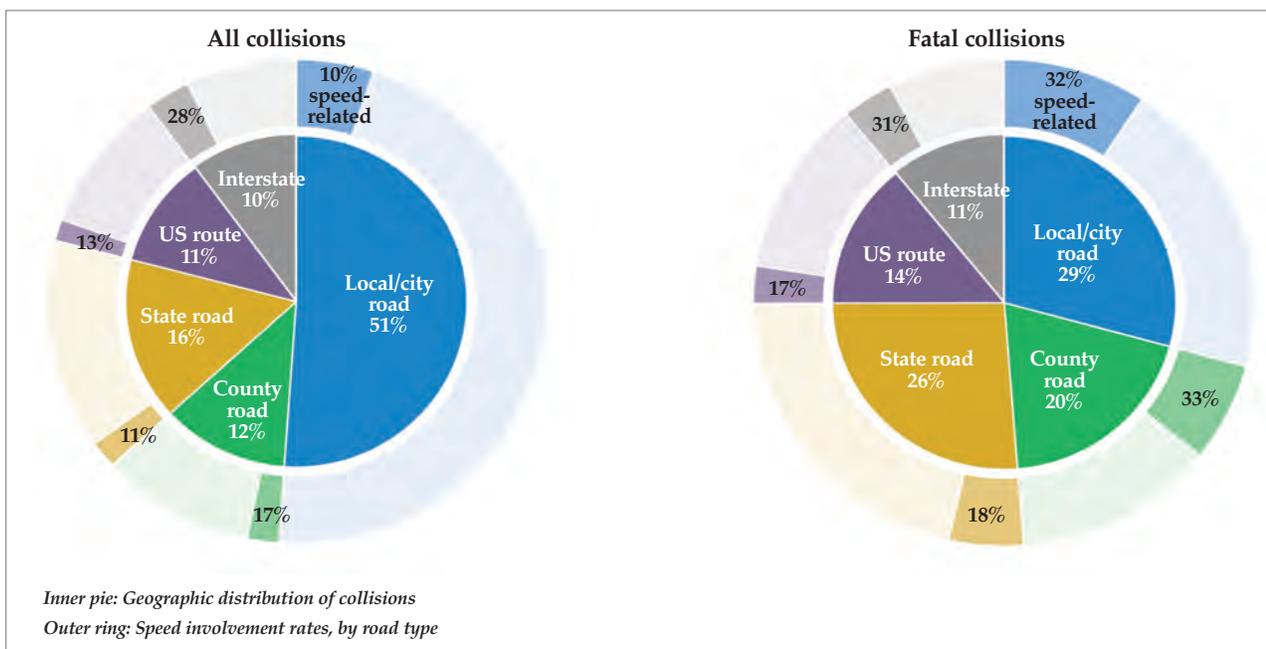


Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

**Notes:**

- 1) See glossary for Census locale definitions.
- 2) Excludes cases where locale could not be determined.

**Figure 8.7. Distribution of total and fatal crashes and rates of speed involvement, by road type, 2014**



Source: Indiana State Police Automated Reporting and Information Exchange System (ARIES), as of March 23, 2015

Note: Includes collisions where valid road class was reported.



CHAPTER 9  
**COUNTIES**



## COUNTIES, 2014

Understanding the spatial distribution of traffic collisions and injuries can assist officials in developing policies and targeting resources to address the many variables that may impact the geography of crashes. A variety of factors may influence the number and nature of traffic collisions that occur in a given area, including the size and makeup of the population, the number of registered vehicles and licensed drivers, the number of vehicle miles traveled (VMT), and, perhaps most importantly, human behaviors and social norms that may contribute to the likelihood of particular types of crashes occurring in regions throughout the state. The following tables and *choropleth* maps show various collision and injury rates in Indiana counties in 2014. The economic costs associated with 2014 collisions are also reported for each county.

*Note: Choropleth maps show counties grouped by quartiles.*

### Collision severity and injuries

In 2014, 205,532 collisions occurred in Indiana, 702 of which were fatal. The mean number of collisions per county was 2,234, and the mean number of fatal collisions per county was 8 (Table 9.1). Marion County ranked highest in the total number of collisions (30,385), and Switzerland County ranked highest in the percentage of all collisions that were fatal (2.4). The mean county rate of collisions per 100 million (100M) VMT was 232, and the median rate was 231 (Map 9.1). Tippecanoe (446.6), Monroe (434.9), and Vanderburgh (402.7) counties had the highest rate of collisions per 100M VMT (Map 9.1).

The total number of individuals involved in 2014 Indiana collisions was 330,667, and the mean number of individuals involved in collisions per county was 3,594 (Table 9.2). Marion County had the largest number of individuals involved (53,860) and the largest number of traffic fatalities (84). The median county traffic fatality rate per 100,000 population was 14.4 (Map 9.2), with Tipton County having the highest rate per 100,000 (64.9) and Martin and Blackford counties having the lowest (0.0).

### Speed-related collisions

Speed-related collisions accounted for 12 percent of all Indiana collisions in 2014, and 26 percent of all fatal collisions (Table 9.3). The mean number of speed-related collisions per county was 270. Ohio (2.5 percent) and Blackford (3.8 percent) counties had the lowest percentage of speed-related collisions, and LaGrange (28.9 percent), Tipton (24.4 percent), Carroll (20.7 percent), and Franklin (20.1 percent) had the highest percentages of all collisions that were speed-related. The median county percent of speed-related collisions was 10.9, and many counties with the highest percentages of speed-related collisions were clustered in the northern half of the state (Map 9.3).

### Alcohol collisions

Indiana collisions that involved an alcohol-impaired driver accounted for 2.2 percent of all Indiana collisions in 2014, and

13.4 percent of all fatal collisions (Table 9.4). The mean number of alcohol-impaired collisions per county was 50, and the mean number of fatal alcohol-impaired collisions per county was 1. The mean percentage of alcohol-impaired collisions was 2.5 percent. Pike (7 percent) and Union (5.6 percent) counties had the highest percentages of alcohol-impaired collisions, and Ohio (0 percent), Starke (1 percent), and Martin (1 percent) counties had the lowest percentage of alcohol-impaired collisions (Map 9.4).

### Deer collisions

A large percentage of 2014 collisions that occurred in Indiana counties that are predominantly rural involved deer (Map 9.5). Even among all counties, the mean percentage of deer-related collisions was 15 percent. Counties with the highest percentage of deer-involved collisions were clustered in areas outside of central Indiana. Pulaski County (47.5) and Warren County (41.7 percent) had the highest percentages of deer-involved collisions, while the urban counties of Marion (0.4 percent) and Lake (1.4 percent) had the lowest percentages of collisions that involved deer.

### Work zone collisions

There were 3,979 work zone collisions in Indiana in 2014 (Map 9.6). The mean county rate of work zone collisions per 1,000 total collisions was 13.5, and the median rate was 8.1. Jackson County (81.8), located in southeastern Indiana along I-65, Benton County (76.9) in northwestern Indiana, and Hamilton County (71.3), located just north of Indianapolis, had the highest rates of work zone collisions per 1,000 collisions. It is worth noting that work zone locations are constantly changing throughout the state, a fact that affects which counties have the highest work zone collision rates from year to year.

### Restraint use

Forty-two percent of vehicle occupants killed in Indiana collisions were unrestrained in 2014, while only 8.8 percent of individuals suffering non-incapacitating injuries were unrestrained (Table 9.5). The median county percent of unrestrained individuals involved in collisions was 3.1 (Map 9.7). Daviess (9.8) and Martin (7.8) counties, located in southwestern Indiana, had the highest rates of unrestrained vehicle occupants in collisions. More generally, urban counties had the lowest percentages of unrestrained injuries, and southern Indiana counties have higher rates of unrestrained injuries than counties located in northern portions of the state.

### Young drivers

In 2014, 40,460 young drivers (ages 15 to 20) were involved in collisions (12.8 percent of all drivers involved). Thirty-four young drivers were killed in 2014 collisions (Table 9.6). Ohio (20 percent) and Benton (19.5 percent) counties had the highest percentages of young drivers in collisions. The mean county rate of young driver involvement in collisions was 102.5 per 1,000 licensed young drivers, and the median county rate was

98.4. Counties that are the locations of large universities (Vanderburgh, Tippecanoe, Monroe, Vigo, and Delaware) had high rates of young driver involvement in collisions (Map 9.8).

### Motorcycle collisions

Of the 205,532 collisions occurring in Indiana in 2014, 3,407 (1.7 percent) involved motorcycles, 123 of which were fatal, representing 17.5 percent of all fatal collisions (Table 9.7). On average, 2 percent of collisions in Indiana counties involved a motorcycle. The highest percentages of collisions involving motorcycles occurred in Martin (6 percent), Union (5.6 percent), and Brown (5.2 percent) counties (Map 9.9).

### Hit-and-run collisions

Drivers involved in collisions resulting in injury or death are expected to remain or immediately return to the scene to provide proper identification (IC 9-26-1-1). Hit-and-run collisions accounted for 12 percent or 24,581 of the 205,532 collisions in Indiana in 2014. The mean county percent of hit-and-run collisions was 7.6 percent, and the median county percent was 7.1 percent (Map 9.10). Allen County (18.9 percent) and Vigo County (18.1 percent) had the highest hit-and-run collision rates in the state in 2014.

### County ranks

Table 9.8 shows Indiana counties ranked by six collision metrics: total collisions per 100MVT, percent of speed-related collisions, percent of alcohol-impaired collisions, percent of motorcycle collisions, percent of unrestrained fatal and incapacitating injuries, and percent of young drivers in collisions. A composite index consisting of the average of the six ranks was also calculated to provide an indication of a county's overall traffic safety environment. However, a number of factors not accounted for here—such as different population

compositions, road types, driving conditions, reporting practices, etc.—may influence collision rankings, so readers should be mindful of these differences when viewing county ranks.

Based on the composite index (Map 9.11), many counties with relatively dangerous traffic safety environments were clustered in north central Indiana and southern Indiana in 2014. By this index, Brown County (1), Pike County (2), and Wabash County (3) were the most dangerous counties in 2014 while Scott (92), Warren (91), and Boone (90) counties were the safest. Most of the top ten counties with the most dangerous traffic safety environments in 2014 (Brown, Pike, Warren, Tippecanoe, Posey, Franklin, Union, Knox, Clinton, and Perry) were primarily rural counties.

### Economic Costs

Map 9.12 shows the economic costs associated with collisions by county. Because costs are based on the number of collisions and injuries that occur and because more heavily populated areas tend to record higher numbers of collisions and injuries, counties with larger populations had the highest total economic costs of collisions in 2014. Marion County recorded the highest estimated economic costs with \$556 million, followed by Lake County (\$296 million), and Allen County (\$222 million). The median county economic cost of collisions was \$20 million, and the mean county economic cost of collisions was \$41 million. Map 9.13 shows the economic costs per capita associated with collisions by county in 2014. While Tipton (\$1,006) and Jasper (\$973) counties, in northern Indiana, had the highest per capita costs of collisions, many of the counties with the highest per capita collision costs are clustered in southern Indiana. The median county per capita cost of collisions was \$559, and the mean county per capita cost of collisions was \$566.

**Table 9.1. Indiana collisions, by severity and county, 2014**

	Total collisions		Fatal			Non-fatal injury		Property damage only	
	Count	County rank	Count	As % county total	County rank (on %)	Count	As % county total	Count	As % county total
<b>All counties</b>	<b>205,532</b>	<b>na</b>	<b>702</b>	<b>0.3</b>	<b>na</b>	<b>33,823</b>	<b>16.5</b>	<b>171,007</b>	<b>83.2</b>
Mean	2,234	na	8	0.6	na	368	16.0	1,859	83.4
Median	993	na	6	0	na	155	15	847	84
Minimum	79	na	0	0.0	na	11	8.6	67	66.7
Maximum	30,385	na	79	2.4	na	5,413	31.3	24,893	91.0
Adams	747	58	5	0.7	30	95	12.7	647	86.6
Allen	12,182	3	30	0.2	74	2,344	19.2	9,808	80.5
Bartholomew	2,169	23	11	0.5	45	571	26.3	1,587	73.2
Benton	156	89	2	1.3	5	29	18.6	125	80.1
Blackford	345	83	0	0.0	91	38	11.0	307	89.0
Boone	1,888	26	11	0.6	34	266	14.1	1,611	85.3
Brown	535	69	4	0.7	20	91	17.0	440	82.2
Carroll	522	70	6	1.1	7	80	15.3	436	83.5
Cass	1,162	40	6	0.5	44	168	14.5	988	85.0
Clark	4,593	10	11	0.2	76	775	16.9	3,807	82.9
Clay	802	56	1	0.1	87	120	15.0	681	84.9
Clinton	1,161	41	3	0.3	71	158	13.6	1,000	86.1
Crawford	260	86	1	0.4	58	32	12.3	227	87.3
Daviess	345	83	7	2.0	2	108	31.3	230	66.7
Dearborn	1,947	24	1	0.1	90	237	12.2	1,709	87.8
Decatur	890	51	6	0.7	28	125	14.0	759	85.3
DeKalb	1,393	35	8	0.6	36	181	13.0	1,204	86.4
Delaware	4,204	11	15	0.4	61	685	16.3	3,504	83.3
Dubois	1,636	30	7	0.4	53	241	14.7	1,388	84.8
Elkhart	7,579	5	20	0.3	69	957	12.6	6,602	87.1
Fayette	439	76	3	0.7	26	55	12.5	381	86.8
Floyd	2,720	18	5	0.2	82	478	17.6	2,237	82.2
Fountain	471	75	4	0.8	11	56	11.9	411	87.3
Franklin	513	72	1	0.2	80	87	17.0	425	82.8
Fulton	544	68	1	0.2	82	61	11.2	482	88.6
Gibson	1,159	42	6	0.5	43	201	17.3	952	82.1
Grant	2,484	20	7	0.3	66	350	14.1	2,127	85.6
Greene	887	52	9	1.0	9	127	14.3	751	84.7
Hamilton	7,576	6	14	0.2	81	1,028	13.6	6,534	86.2
Hancock	1,645	28	5	0.3	64	257	15.6	1,383	84.1
Harrison	1,235	37	5	0.4	57	241	19.5	989	80.1
Hendricks	4,029	13	7	0.2	84	590	14.6	3,432	85.2
Henry	1,045	44	8	0.8	19	154	14.7	883	84.5
Howard	2,282	22	10	0.4	51	489	21.4	1,783	78.1
Huntington	1,232	38	1	0.1	88	196	15.9	1,035	84.0
Jackson	1,907	25	8	0.4	54	269	14.1	1,630	85.5
Jasper	1,361	36	11	0.8	17	220	16.2	1,130	83.0
Jay	712	61	6	0.8	12	89	12.5	617	86.7
Jefferson	998	46	7	0.7	24	151	15.1	840	84.2
Jennings	834	54	4	0.5	48	150	18.0	680	81.5
Johnson	3,218	17	7	0.2	78	585	18.2	2,626	81.6
Knox	936	50	5	0.5	41	190	20.3	741	79.2
Kosciusko	2,522	19	7	0.3	67	349	13.8	2,166	85.9
LaGrange	1,032	45	7	0.7	27	126	12.2	899	87.1
Lake	17,301	2	43	0.2	73	2,782	16.1	14,476	83.7
LaPorte	3,669	15	19	0.5	42	670	18.3	2,980	81.2
Lawrence	1,495	31	8	0.5	39	270	18.1	1,217	81.4
Madison	3,876	14	21	0.5	38	535	13.8	3,320	85.7

continued on next page

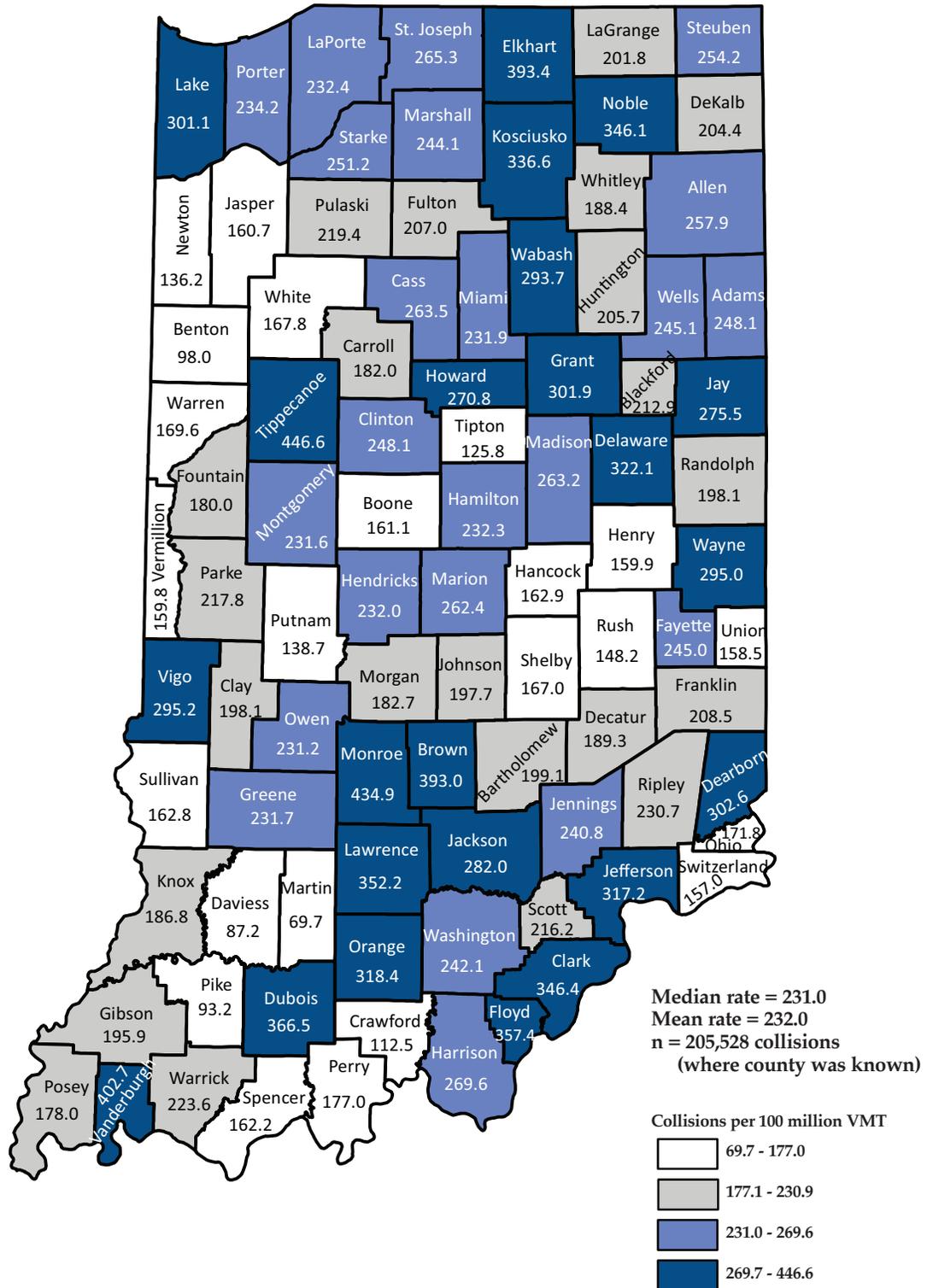
Table 9.1. (continued)

	Total collisions		Fatal			Non-fatal injury		Property damage only	
	Count	County rank	Count	As % county total	County rank (on %)	Count	As % county total	Count	As % county total
Marion	30,385	1	79	0.3	70	5,413	17.8	24,893	81.9
Marshall	1,408	34	7	0.5	46	215	15.3	1,186	84.2
Martin	100	91	0	0.0	91	24	24.0	76	76.0
Miami	987	47	4	0.4	56	169	17.1	814	82.5
Monroe	4,167	12	7	0.2	86	817	19.6	3,343	80.2
Montgomery	1,089	43	3	0.3	68	178	16.3	908	83.4
Morgan	1,642	29	11	0.7	29	288	17.5	1,343	81.8
Newton	356	82	3	0.8	12	66	18.5	287	80.6
Noble	1,482	32	7	0.5	49	210	14.2	1,265	85.4
Ohio	79	92	1	1.3	6	11	13.9	67	84.8
Orange	595	65	1	0.2	85	89	15.0	505	84.9
Owen	514	71	3	0.6	33	82	16.0	429	83.5
Parke	504	73	4	0.8	18	67	13.3	433	85.9
Perry	436	77	3	0.7	25	71	16.3	362	83.0
Pike	187	87	1	0.5	40	41	21.9	145	77.5
Porter	5,128	9	12	0.2	77	949	18.5	4,167	81.3
Posey	619	63	4	0.6	31	85	13.7	530	85.6
Pulaski	434	78	2	0.5	50	53	12.2	379	87.3
Putnam	764	57	8	1.0	8	111	14.5	645	84.4
Randolph	546	67	4	0.7	22	61	11.2	481	88.1
Ripley	806	55	5	0.6	32	119	14.8	682	84.6
Rush	357	81	2	0.6	37	67	18.8	288	80.7
St. Joseph	7,891	4	23	0.3	65	1,408	17.8	6,460	81.9
Scott	715	60	6	0.8	14	156	21.8	553	77.3
Shelby	1,227	39	6	0.5	47	294	24.0	927	75.6
Spencer	586	66	2	0.3	62	96	16.4	488	83.3
Starke	617	64	5	0.8	16	92	14.9	520	84.3
Steuben	1,681	27	6	0.4	60	181	10.8	1,494	88.9
Sullivan	489	74	2	0.4	55	81	16.6	406	83.0
Switzerland	165	88	4	2.4	1	28	17.0	133	80.6
Tiptecanoe	7,228	7	5	0.1	89	1,029	14.2	6,194	85.7
Tipton	361	80	6	1.7	3	77	21.3	278	77.0
Union	125	90	2	1.6	4	22	17.6	101	80.8
Vanderburgh	6,960	8	17	0.2	75	1,304	18.7	5,639	81.0
Vermillion	400	79	4	1.0	10	63	15.8	333	83.3
Vigo	3,553	16	9	0.3	72	584	16.4	2,960	83.3
Wabash	953	49	7	0.7	21	126	13.2	820	86.0
Warren	278	85	1	0.4	59	24	8.6	253	91.0
Warrick	1,428	33	3	0.2	79	180	12.6	1,245	87.2
Washington	737	59	6	0.8	15	140	19.0	591	80.2
Wayne	2,373	21	8	0.3	63	351	14.8	2,014	84.9
Wells	688	62	3	0.4	52	105	15.3	580	84.3
White	981	48	7	0.7	23	121	12.3	853	87.0
Whitley	869	53	5	0.6	35	118	13.6	746	85.8
Unknown	4	na	0	0.0	na	0	0.0	4	100.0

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Note: Non-fatal injury collisions include collisions with incapacitating, non-incapacitating and possible injuries.

Map 9.1. Traffic collisions per 100M vehicle miles traveled, by county, 2014



Sources:  
 Collisions: Indiana State Police Automated Reporting Information Exchange System (ARIES) as of March 23, 2015  
 VMT: Indiana Department of Transportation (2013 most recent year available by county)

Table 9.2. Individuals involved in Indiana collisions, by injury status and county, 2014

	Total individuals involved		Fatal			Incapacitating		Non-incapacitating		Other/no injury	
	Count	County rank	Count	As % county total	County rank (on %)	Count	As % county total	Count	As % county total	Count	As % county total
<b>All counties</b>	<b>330,667</b>	<b>na</b>	<b>743</b>	<b>0.2</b>	<b>na</b>	<b>5,493</b>	<b>1.7</b>	<b>40,864</b>	<b>12.4</b>	<b>283,567</b>	<b>85.8</b>
Mean	3,594	na	8	0.4	na	60	2.3	444	12.6	3,082	84.7
Median	1,404	na	6	0	na	37	2	176	12	1,219	86
Minimum	90	na	0	0.0	na	3	0.0	12	6.7	77	72.1
Maximum	53,860	na	84	1.9	na	552	5.7	6,946	24.1	46,278	90.9
Adams	1,079	59	5	0.5	28	29	2.7	102	9.5	943	87.4
Allen	19,805	3	31	0.2	73	341	1.7	2,865	14.5	16,568	83.7
Bartholomew	3,693	22	12	0.3	50	92	2.5	706	19.1	2,883	78.1
Benton	202	89	2	1.0	6	10	5.0	28	13.9	162	80.2
Blackford	473	84	0	0.0	91	11	2.3	44	9.3	418	88.4
Boone	2,898	24	13	0.4	32	52	1.8	302	10.4	2,531	87.3
Brown	708	70	5	0.7	11	14	2.0	101	14.3	588	83.1
Carroll	675	73	6	0.9	7	19	2.8	101	15.0	549	81.3
Cass	1,721	41	6	0.3	45	19	1.1	223	13.0	1,473	85.6
Clark	7,583	10	11	0.1	77	116	1.5	971	12.8	6,485	85.5
Clay	1,228	55	1	0.1	87	17	1.4	144	11.7	1,066	86.8
Clinton	1,624	42	3	0.2	67	35	2.2	168	10.3	1,418	87.3
Crawford	342	85	1	0.3	55	3	0.9	37	10.8	301	88.0
Daviess	560	79	8	1.4	3	13	2.3	135	24.1	404	72.1
Dearborn	2,849	25	1	0.0	90	62	2.2	257	9.0	2,529	88.8
Decatur	1,298	52	6	0.5	29	40	3.1	125	9.6	1,127	86.8
DeKalb	1,995	35	9	0.5	30	53	2.7	201	10.1	1,732	86.8
Delaware	6,749	12	15	0.2	63	121	1.8	829	12.3	5,784	85.7
Dubois	2,365	29	7	0.3	54	44	1.9	282	11.9	2,032	85.9
Elkhart	12,075	7	20	0.2	70	195	1.6	1,101	9.1	10,759	89.1
Fayette	691	72	3	0.4	34	7	1.0	77	11.1	604	87.4
Floyd	4,591	18	5	0.1	83	85	1.9	579	12.6	3,922	85.4
Fountain	616	77	4	0.6	15	15	2.4	66	10.7	531	86.2
Franklin	696	71	1	0.1	78	40	5.7	77	11.1	578	83.0
Fulton	719	68	1	0.1	80	9	1.3	66	9.2	643	89.4
Gibson	1,763	39	6	0.3	46	49	2.8	232	13.2	1,476	83.7
Grant	3,729	21	8	0.2	64	48	1.3	419	11.2	3,254	87.3
Greene	1,205	56	9	0.7	10	37	3.1	135	11.2	1,024	85.0
Hamilton	13,520	4	14	0.1	85	143	1.1	1,243	9.2	12,120	89.6
Hancock	2,735	27	5	0.2	68	42	1.5	330	12.1	2,358	86.2
Harrison	1,823	38	5	0.3	58	46	2.5	328	18.0	1,444	79.2
Hendricks	6,860	11	7	0.1	86	121	1.8	687	10.0	6,045	88.1
Henry	1,582	44	9	0.6	21	38	2.4	177	11.2	1,358	85.8
Howard	3,910	19	10	0.3	61	88	2.3	591	15.1	3,221	82.4
Huntington	1,736	40	1	0.1	88	36	2.1	221	12.7	1,478	85.1
Jackson	2,830	26	8	0.3	57	56	2.0	288	10.2	2,478	87.6
Jasper	1,905	36	13	0.7	13	48	2.5	260	13.6	1,584	83.1
Jay	941	62	8	0.9	8	10	1.1	104	11.1	819	87.0
Jefferson	1,552	45	7	0.5	31	37	2.4	175	11.3	1,333	85.9
Jennings	1,314	51	4	0.3	52	40	3.0	193	14.7	1,077	82.0
Johnson	5,643	16	8	0.1	79	77	1.4	711	12.6	4,847	85.9
Knox	1,396	48	5	0.4	43	39	2.8	218	15.6	1,134	81.2
Kosciusko	3,765	20	8	0.2	65	33	0.9	466	12.4	3,258	86.5
LaGrange	1,387	49	7	0.5	25	19	1.4	162	11.7	1,199	86.4
Lake	28,824	2	46	0.2	72	365	1.3	3,437	11.9	24,976	86.7
LaPorte	5,728	15	21	0.4	41	130	2.3	838	14.6	4,739	82.7
Lawrence	2,236	31	8	0.4	44	73	3.3	307	13.7	1,848	82.6
Madison	6,077	14	22	0.4	42	108	1.8	645	10.6	5,302	87.2

continued on next page

Table 9.2. (continued)

	Total individuals involved		Fatal			Incapacitating		Non-incapacitating		Other/no injury	
	Count	County rank	Count	As % county total	County rank (on %)	Count	As % county total	Count	As % county total	Count	As % county total
Marion	53,860	1	84	0.2	74	552	1.0	6,946	12.9	46,278	85.9
Marshall	2,064	34	7	0.3	47	32	1.6	282	13.7	1,743	84.4
Martin	140	91	0	0.0	91	7	5.0	25	17.9	108	77.1
Miami	1,406	46	4	0.3	56	37	2.6	196	13.9	1,169	83.1
Monroe	6,661	13	7	0.1	84	142	2.1	908	13.6	5,604	84.1
Montgomery	1,609	43	3	0.2	66	63	3.9	186	11.6	1,357	84.3
Morgan	2,703	28	11	0.4	36	55	2.0	340	12.6	2,297	85.0
Newton	478	83	3	0.6	17	13	2.7	77	16.1	385	80.5
Noble	2,100	33	7	0.3	48	85	4.0	219	10.4	1,789	85.2
Ohio	90	92	1	1.1	5		0.0	12	13.3	77	85.6
Orange	782	66	1	0.1	82	32	4.1	87	11.1	662	84.7
Owen	718	69	3	0.4	35	24	3.3	90	12.5	601	83.7
Parke	640	75	4	0.6	18	20	3.1	80	12.5	536	83.8
Perry	635	76	4	0.6	16	14	2.2	94	14.8	523	82.4
Pike	259	87	1	0.4	39	5	1.9	47	18.1	206	79.5
Porter	8,339	9	13	0.2	75	127	1.5	1,146	13.7	7,053	84.6
Posey	835	64	4	0.5	27	24	2.9	81	9.7	726	86.9
Pulaski	543	80	2	0.4	40	16	2.9	60	11.0	465	85.6
Putnam	1,143	57	9	0.8	9	29	2.5	127	11.1	978	85.6
Randolph	763	67	4	0.5	23	9	1.2	75	9.8	675	88.5
Ripley	1,115	58	5	0.4	33	21	1.9	130	11.7	959	86.0
Rush	502	82	2	0.4	37	20	4.0	66	13.1	414	82.5
St. Joseph	12,815	5	23	0.2	69	188	1.5	1,722	13.4	10,882	84.9
Scott	1,233	54	6	0.5	26	50	4.1	188	15.2	989	80.2
Shelby	1,841	37	6	0.3	49	72	3.9	324	17.6	1,439	78.2
Spencer	796	65	2	0.3	62	13	1.6	121	15.2	660	82.9
Starke	856	63	5	0.6	19	18	2.1	121	14.1	712	83.2
Steuben	2,277	30	6	0.3	59	49	2.2	207	9.1	2,015	88.5
Sullivan	669	74	2	0.3	53	25	3.7	95	14.2	547	81.8
Switzerland	241	88	4	1.7	2	8	3.3	33	13.7	196	81.3
Tippecanoe	11,383	8	5	0.0	89	71	0.6	1,260	11.1	10,047	88.3
Tipton	526	81	10	1.9	1	7	1.3	105	20.0	404	76.8
Union	169	90	2	1.2	4	6	3.6	21	12.4	140	82.8
Vanderburgh	12,523	6	19	0.2	76	100	0.8	1,616	12.9	10,788	86.1
Vermillion	577	78	4	0.7	12	18	3.1	74	12.8	481	83.4
Vigo	5,595	17	9	0.2	71	126	2.3	664	11.9	4,796	85.7
Wabash	1,345	50	7	0.5	24	38	2.8	131	9.7	1,169	86.9
Warren	328	86	1	0.3	51	7	2.1	22	6.7	298	90.9
Warrick	2,171	32	3	0.1	81	63	2.9	166	7.6	1,939	89.3
Washington	1,053	60	7	0.7	14	23	2.2	175	16.6	848	80.5
Wayne	3,465	23	9	0.3	60	72	2.1	412	11.9	2,972	85.8
Wells	1,023	61	4	0.4	38	23	2.2	126	12.3	870	85.0
White	1,402	47	8	0.6	20	30	2.1	126	9.0	1,238	88.3
Whitley	1,295	53	7	0.5	22	34	2.6	127	9.8	1,127	87.0
Unknown	3	na	0	0.0	na	0	0.0	0	0.0	3	100.0

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

**Notes:**

- 1) *Non-incapacitating injuries* include those reported as *non-incapacitating* and *possible injuries*.
- 2) *Other/no injury* counts include injury type values identified as *not reported, refused, unknown, invalid* and *missing codes*.



**Table 9.3. Indiana speed-related collisions, by severity and county, 2014**

	All collisions			Fatal		Non-fatal injury		Property damage only	
	Speed-related collisions	Speed-related as % of total collisions	County rank (on %)	Count	Speed-related as % of total fatal collisions	Count	Speed-related as % of total non-fatal injury collisions	Count	Speed-related as % of total property damage collisions
<b>All counties</b>	<b>24,810</b>	<b>12.1</b>	<b>na</b>	<b>184</b>	<b>26.2</b>	<b>5,121</b>	<b>15.1</b>	<b>19,505</b>	<b>11.4</b>
Mean	270	11.8	na	2	23.0	56	16.4	212	10.9
Median	127	10.9	na	1	20	29	16	96	10
Minimum	2	2.5	na	0	0.0	1	2.6	1	1.5
Maximum	3,301	28.9	na	20	100.0	697	37.5	2,626	27.9
Adams	74	9.9	59	1	20.0	11	11.6	62	9.6
Allen	1,475	12.1	38	10	33.3	317	13.5	1,148	11.7
Bartholomew	231	10.7	50	4	36.4	63	11.0	164	10.3
Benton	16	10.3	53	0	0.0	5	17.2	11	8.8
Blackford	13	3.8	91	0	0.0	1	2.6	12	3.9
Boone	234	12.4	34	2	18.2	47	17.7	185	11.5
Brown	80	15.0	23	0	0.0	21	23.1	59	13.4
Carroll	108	20.7	3	3	50.0	30	37.5	75	17.2
Cass	157	13.5	30	2	33.3	34	20.2	121	12.2
Clark	356	7.8	77	1	9.1	101	13.0	254	6.7
Clay	76	9.5	63	0	0.0	14	11.7	62	9.1
Clinton	190	16.4	16	0	0.0	31	19.6	159	15.9
Crawford	26	10.0	56	1	100.0	6	18.8	19	8.4
Daviess	49	14.2	28	1	14.3	17	15.7	31	13.5
Dearborn	211	10.8	47	0	0.0	53	22.4	158	9.2
Decatur	109	12.2	37	1	16.7	17	13.6	91	12.0
DeKalb	255	18.3	11	3	37.5	43	23.8	209	17.4
Delaware	449	10.7	49	4	26.7	82	12.0	363	10.4
Dubois	159	9.7	61	4	57.1	44	18.3	111	8.0
Elkhart	1,455	19.2	6	8	40.0	182	19.0	1,265	19.2
Fayette	26	5.9	84	2	66.7	5	9.1	19	5.0
Floyd	138	5.1	87	2	40.0	39	8.2	97	4.3
Fountain	50	10.6	52	0	0.0	9	16.1	41	10.0
Franklin	103	20.1	4	1	100.0	22	25.3	80	18.8
Fulton	61	11.2	43	0	0.0	11	18.0	50	10.4
Gibson	115	9.9	57	1	16.7	38	18.9	76	8.0
Grant	403	16.2	18	3	42.9	74	21.1	326	15.3
Greene	88	9.9	58	1	11.1	26	20.5	61	8.1
Hamilton	541	7.1	79	2	14.3	93	9.0	446	6.8
Hancock	205	12.5	33	1	20.0	40	15.6	164	11.9
Harrison	97	7.9	76	1	20.0	31	12.9	65	6.6
Hendricks	461	11.4	42	2	28.6	85	14.4	374	10.9
Henry	140	13.4	31	1	12.5	16	10.4	123	13.9
Howard	190	8.3	70	1	10.0	45	9.2	144	8.1
Huntington	175	14.2	27	0	0.0	33	16.8	142	13.7
Jackson	203	10.6	51	2	25.0	48	17.8	153	9.4
Jasper	251	18.4	9	2	18.2	52	23.6	197	17.4
Jay	34	4.8	90	0	0.0	7	7.9	27	4.4
Jefferson	88	8.8	68	2	28.6	19	12.6	67	8.0
Jennings	78	9.4	66	0	0.0	27	18.0	51	7.5
Johnson	302	9.4	65	1	14.3	56	9.6	245	9.3
Knox	113	12.1	39	0	0.0	34	17.9	79	10.7
Kosciusko	280	11.1	44	1	14.3	45	12.9	234	10.8
LaGrange	298	28.9	1	4	57.1	43	34.1	251	27.9
Lake	3,301	19.1	7	20	46.5	655	23.5	2,626	18.1
LaPorte	522	14.2	26	5	26.3	115	17.2	402	13.5
Lawrence	122	8.2	72	2	25.0	33	12.2	87	7.1
Madison	379	9.8	60	3	14.3	62	11.6	314	9.5

*continued on next page*

Table 9.3. (continued)

	All collisions			Fatal		Non-fatal injury		Property damage only	
	Speed-related collisions	Speed-related as % of total collisions	County rank (on %)	Count	Speed-related as % of total fatal collisions	Count	Speed-related as % of total non-fatal injury collisions	Count	Speed-related as % of total property damage collisions
Marion	2,877	9.5	64	20	25.3	697	12.9	2,160	8.7
Marshall	152	10.8	48	2	28.6	31	14.4	119	10.0
Martin	20	20.0	5	0	0.0	7	29.2	13	17.1
Miami	154	15.6	20	0	0.0	28	16.6	126	15.5
Monroe	418	10.0	55	2	28.6	86	10.5	330	9.9
Montgomery	134	12.3	35	2	66.7	28	15.7	104	11.5
Morgan	180	11.0	45	2	18.2	38	13.2	140	10.4
Newton	65	18.3	12	0	0.0	21	31.8	44	15.3
Noble	216	14.6	25	2	28.6	42	20.0	172	13.6
Ohio	2	2.5	92	0	0.0	1	9.1	1	1.5
Orange	48	8.1	75	0	0.0	17	19.1	31	6.1
Owen	56	10.9	46	1	33.3	10	12.2	45	10.5
Parke	59	11.7	41	1	25.0	9	13.4	49	11.3
Perry	23	5.3	86	0	0.0	10	14.1	13	3.6
Pike	33	17.6	13	0	0.0	10	24.4	23	15.9
Porter	807	15.7	19	2	16.7	169	17.8	636	15.3
Posey	114	18.4	10	1	25.0	26	30.6	87	16.4
Pulaski	26	6.0	83	0	0.0	6	11.3	20	5.3
Putnam	134	17.5	14	4	50.0	29	26.1	101	15.7
Randolph	34	6.2	82	0	0.0	3	4.9	31	6.4
Ripley	78	9.7	62	3	60.0	11	9.2	64	9.4
Rush	42	11.8	40	0	0.0	14	20.9	28	9.7
St. Joseph	1,028	13.0	32	6	26.1	196	13.9	826	12.8
Scott	55	7.7	78	2	33.3	15	9.6	38	6.9
Shelby	233	19.0	8	0	0.0	61	20.7	172	18.6
Spencer	29	4.9	88	0	0.0	9	9.4	20	4.1
Starke	50	8.1	74	1	20.0	14	15.2	35	6.7
Steuben	273	16.2	17	4	66.7	44	24.3	225	15.1
Sullivan	41	8.4	69	0	0.0	10	12.3	31	7.6
Switzerland	9	5.5	85	1	25.0	4	14.3	4	3.0
Tippecanoe	1,099	15.2	21	2	40.0	205	19.9	892	14.4
Tipton	88	24.4	2	3	50.0	14	18.2	71	25.5
Union	8	6.4	81	1	50.0	1	4.5	6	5.9
Vanderburgh	336	4.8	89	3	17.6	87	6.7	246	4.4
Vermillion	49	12.3	36	1	25.0	16	25.4	32	9.6
Vigo	320	9.0	67	3	33.3	64	11.0	253	8.5
Wabash	132	13.9	29	2	28.6	30	23.8	100	12.2
Warren	23	8.3	71	0	0.0	5	20.8	18	7.1
Warrick	116	8.1	73	0	0.0	21	11.7	95	7.6
Washington	52	7.1	80	3	50.0	19	13.6	30	5.1
Wayne	346	14.6	24	1	12.5	77	21.9	268	13.3
Wells	70	10.2	54	1	33.3	14	13.3	55	9.5
White	162	16.5	15	1	14.3	22	18.2	139	16.3
Whitley	132	15.2	22	2	40.0	18	15.3	112	15.0

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) Percent calculations represent the percent of total county collisions (presented in Table 9.1) in each injury category that are speed-related.
- 2) Non-fatal injury collisions include collisions with incapacitating, non-incapacitating, and possible injuries.
- 3) See glossary for definition of speed-related.



Table 9.4. Indiana collisions involving an alcohol-impaired driver, by severity and county, 2014

County	Total		Fatal		Non-fatal injury		Property damage	
	Count	Alcohol-impaired as % of total collisions	Count	Alcohol-impaired as % of total fatal collisions	Count	Alcohol-impaired as % of total non-fatal injury collisions	Count	Alcohol-impaired as % of total property damage collisions
<b>All counties</b>	<b>4,574</b>	<b>2.2</b>	<b>94</b>	<b>13.4</b>	<b>1,290</b>	<b>3.8</b>	<b>3,190</b>	<b>1.9</b>
Mean	50	2.5	1	14.5	14	4.3	35	2.1
Median	23	2.3	1	9.1	6	3.9	16	1.9
Minimum	0	0.0	0	0.0	0	0.0	0	0.0
Maximum	500	7.0	11	100.0	121	17.2	376	7.6
Adams	13	1.7	1	20.0	3	3.2	9	1.4
Allen	348	2.9	7	23.3	121	5.2	220	2.2
Bartholomew	55	2.5	1	9.1	19	3.3	35	2.2
Benton	6	3.8	0	0.0	5	17.2	1	0.8
Blackford	8	2.3	0	0.0	1	2.6	7	2.3
Boone	25	1.3	0	0.0	5	1.9	20	1.2
Brown	14	2.6	0	0.0	6	6.6	8	1.8
Carroll	10	1.9	1	16.7	5	6.3	4	0.9
Cass	22	1.9	3	50.0	3	1.8	16	1.6
Clark	75	1.6	2	18.2	22	2.8	51	1.3
Clay	25	3.1	1	100.0	8	6.7	16	2.3
Clinton	30	2.6	0	0.0	3	1.9	27	2.7
Crawford	8	3.1	0	0.0	1	3.1	7	3.1
Daviess	14	4.1	0	0.0	4	3.7	10	4.3
Dearborn	52	2.7	1	100.0	9	3.8	42	2.5
Decatur	13	1.5	0	0.0	6	4.8	7	0.9
DeKalb	40	2.9	1	12.5	9	5.0	30	2.5
Delaware	92	2.2	2	13.3	30	4.4	60	1.7
Dubois	35	2.1	1	14.3	7	2.9	27	1.9
Elkhart	168	2.2	3	15.0	38	4.0	127	1.9
Fayette	15	3.4	0	0.0	4	7.3	11	2.9
Floyd	68	2.5	0	0.0	22	4.6	46	2.1
Fountain	15	3.2	0	0.0	3	5.4	12	2.9
Franklin	14	2.7	0	0.0	4	4.6	10	2.4
Fulton	10	1.8	0	0.0	0	0.0	10	2.1
Gibson	33	2.8	0	0.0	18	9.0	15	1.6
Grant	54	2.2	1	14.3	6	1.7	47	2.2
Greene	16	1.8	1	11.1	3	2.4	12	1.6
Hamilton	164	2.2	1	7.1	42	4.1	121	1.9
Hancock	57	3.5	1	20.0	11	4.3	45	3.3
Harrison	33	2.7	1	20.0	12	5.0	20	2.0
Hendricks	87	2.2	2	28.6	25	4.2	60	1.7
Henry	24	2.3	0	0.0	7	4.5	17	1.9
Howard	70	3.1	3	30.0	17	3.5	50	2.8
Huntington	24	1.9	0	0.0	6	3.1	18	1.7
Jackson	38	2.0	0	0.0	8	3.0	30	1.8
Jasper	31	2.3	1	9.1	16	7.3	14	1.2
Jay	12	1.7	2	33.3	2	2.2	8	1.3
Jefferson	21	2.1	0	0.0	4	2.6	17	2.0
Jennings	14	1.7	0	0.0	3	2.0	11	1.6
Johnson	64	2.0	1	14.3	19	3.2	44	1.7
Knox	27	2.9	0	0.0	7	3.7	20	2.7
Kosciusko	59	2.3	0	0.0	17	4.9	42	1.9
LaGrange	26	2.5	1	14.3	6	4.8	19	2.1
Lake	375	2.2	11	25.6	118	4.2	246	1.7
LaPorte	108	2.9	5	26.3	32	4.8	71	2.4
Lawrence	34	2.3	1	12.5	14	5.2	19	1.6
Madison	74	1.9	2	9.5	15	2.8	57	1.7

continued on next page

Table 9.4. (continued)

County	Total		Fatal		Non-fatal injury		Property damage	
	Count	Alcohol-impaired as % of total collisions	Count	Alcohol-impaired as % of total fatal collisions	Count	Alcohol-impaired as % of total non-fatal injury collisions	Count	Alcohol-impaired as % of total property damage collisions
Marion	500	1.6	4	5.1	120	2.2	376	1.5
Marshall	41	2.9	2	28.6	15	7.0	24	2.0
Martin	1	1.0	0	0.0	0	0.0	1	1.3
Miami	22	2.2	1	25.0	8	4.7	13	1.6
Monroe	74	1.8	0	0.0	22	2.7	52	1.6
Montgomery	15	1.4	1	33.3	3	1.7	11	1.2
Morgan	22	1.3	0	0.0	7	2.4	15	1.1
Newton	10	2.8	1	33.3	2	3.0	7	2.4
Noble	38	2.6	1	14.3	12	5.7	25	2.0
Ohio	0	0.0	0	0.0	0	0.0	0	0.0
Orange	14	2.4	0	0.0	3	3.4	11	2.2
Owen	14	2.7	1	33.3	3	3.7	10	2.3
Parke	18	3.6	0	0.0	5	7.5	13	3.0
Perry	20	4.6	0	0.0	8	11.3	12	3.3
Pike	13	7.0	0	0.0	2	4.9	11	7.6
Porter	167	3.3	2	16.7	56	5.9	109	2.6
Posey	13	2.1	0	0.0	3	3.5	10	1.9
Pulaski	12	2.8	0	0.0	4	7.5	8	2.1
Putnam	16	2.1	1	12.5	1	0.9	14	2.2
Randolph	6	1.1	0	0.0	1	1.6	5	1.0
Ripley	23	2.9	4	80.0	0	0.0	19	2.8
Rush	9	2.5	0	0.0	4	6.0	5	1.7
St. Joseph	183	2.3	4	17.4	57	4.0	122	1.9
Scott	12	1.7	0	0.0	2	1.3	10	1.8
Shelby	27	2.2	0	0.0	13	4.4	14	1.5
Spencer	15	2.6	0	0.0	6	6.3	9	1.8
Starke	6	1.0	0	0.0	1	1.1	5	1.0
Steuben	35	2.1	3	50.0	6	3.3	26	1.7
Sullivan	15	3.1	1	50.0	8	9.9	6	1.5
Switzerland	6	3.6	0	0.0	2	7.1	4	3.0
Tippecanoe	154	2.1	1	20.0	42	4.1	111	1.8
Tipton	10	2.8	1	16.7	5	6.5	4	1.4
Union	7	5.6	0	0.0	0	0.0	7	6.9
Vanderburgh	133	1.9	2	11.8	38	2.9	93	1.6
Vermillion	14	3.5	0	0.0	2	3.2	12	3.6
Vigo	92	2.6	0	0.0	26	4.5	66	2.2
Wabash	30	3.1	0	0.0	11	8.7	19	2.3
Warren	5	1.8	1	100.0	2	8.3	2	0.8
Warrick	25	1.8	1	33.3	7	3.9	17	1.4
Washington	23	3.1	1	16.7	12	8.6	10	1.7
Wayne	59	2.5	0	0.0	11	3.1	48	2.4
Wells	15	2.2	1	33.3	7	6.7	7	1.2
White	22	2.2	1	14.3	4	3.3	17	2.0
Whitley	18	2.1	1	20.0	3	2.5	14	1.9

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES) as of March 23, 2015

Notes:

- 1) Percent calculations represent the percent of total county collisions (presented in Table 9.1) in each injury category that are *alcohol-impaired*.
- 2) Includes collisions where at least one *alcohol-impaired* driver was involved.
- 3) *Non-fatal injury* includes *incapacitating, non-incapacitating, and possible injury* collisions.
- 4) See glossary for definition of *alcohol-impaired*.







**Table 9.5. Vehicle occupants injured in Indiana collisions, by injury status, restraint use, and county, 2014**

	Fatal			Incapacitating			Non-incapacitating		
	Total	Unrestrained	% Unrestrained	Total	Unrestrained	% Unrestrained	Total	Unrestrained	% Unrestrained
<b>All counties</b>	<b>654</b>	<b>275</b>	<b>42.0</b>	<b>5,094</b>	<b>1,003</b>	<b>19.7</b>	<b>39,070</b>	<b>3,426</b>	<b>8.8</b>
Mean	7	3	42.8	55	11	20.5	425	37	12.0
Median	5	2	43	35	8	19	174	19	11
Minimum	0	0	na	0	0	0.0	12	2	4.0
Maximum	62	27	100.0	483	105	51.4	6,562	482	27.0
Adams	5	3	60.0	28	8	28.6	96	14	14.6
Allen	24	14	58.3	302	50	16.6	2,739	182	6.6
Bartholomew	10	3	30.0	85	8	9.4	675	58	8.6
Benton	1	0	0.0	10	2	20.0	28	3	10.7
Blackford	0	0	0.0	11	1	9.1	43	7	16.3
Boone	13	3	23.1	51	8	15.7	298	14	4.7
Brown	4	3	75.0	14	2	14.3	100	21	21.0
Carroll	6	1	16.7	19	4	21.1	101	19	18.8
Cass	6	2	33.3	18	5	27.8	216	20	9.3
Clark	8	7	87.5	109	24	22.0	947	86	9.1
Clay	1	0	0.0	15	1	6.7	139	10	7.2
Clinton	3	1	33.3	33	11	33.3	165	14	8.5
Crawford	1	1	100.0	3	0	0.0	37	10	27.0
Daviess	8	4	50.0	13	0	0.0	133	31	23.3
Dearborn	1	0	0.0	61	9	14.8	252	23	9.1
Decatur	6	3	50.0	37	19	51.4	119	18	15.1
DeKalb	9	6	66.7	53	9	17.0	197	17	8.6
Delaware	13	6	46.2	112	26	23.2	783	74	9.5
Dubois	7	1	14.3	44	9	20.5	278	18	6.5
Elkhart	15	5	33.3	181	23	12.7	1,016	104	10.2
Fayette	2	1	0.0	7	1	14.3	74	7	9.5
Floyd	3	2	66.7	77	12	15.6	556	44	7.9
Fountain	4	0	0.0	15	1	6.7	66	10	15.2
Franklin	1	0	0.0	40	6	15.0	75	18	24.0
Fulton	1	0	0.0	9	2	22.2	62	12	19.4
Gibson	5	4	80.0	46	8	17.4	225	13	5.8
Grant	8	5	62.5	41	11	26.8	408	41	10.0
Greene	9	3	33.3	37	9	24.3	133	30	22.6
Hamilton	12	4	33.3	135	16	11.9	1,204	58	4.8
Hancock	5	1	20.0	42	7	16.7	324	13	4.0
Harrison	5	4	80.0	46	10	21.7	326	69	21.2
Hendricks	5	2	40.0	117	18	15.4	660	48	7.3
Henry	7	3	42.9	35	9	25.7	175	12	6.9
Howard	9	6	66.7	81	16	19.8	563	60	10.7
Huntington	1	0	0.0	33	6	18.2	217	24	11.1
Jackson	8	1	12.5	53	12	22.6	278	33	11.9
Jasper	13	2	15.4	48	15	31.3	256	29	11.3
Jay	8	5	62.5	10	0	0.0	96	8	8.3
Jefferson	6	2	33.3	33	10	30.3	170	21	12.4
Jennings	4	2	50.0	39	5	12.8	191	15	7.9
Johnson	8	2	25.0	72	10	13.9	691	56	8.1
Knox	5	5	100.0	37	6	16.2	206	22	10.7
Kosciusko	5	0	0.0	30	6	20.0	455	48	10.5
LaGrange	6	3	50.0	17	3	17.6	148	19	12.8
Lake	39	16	41.0	328	58	17.7	3,260	171	5.2
LaPorte	19	7	36.8	119	21	17.6	800	64	8.0
Lawrence	8	6	75.0	70	16	22.9	301	29	9.6
Madison	19	3	15.8	94	14	14.9	619	61	9.9

*continued on next page*

Table 9.5. (continued)

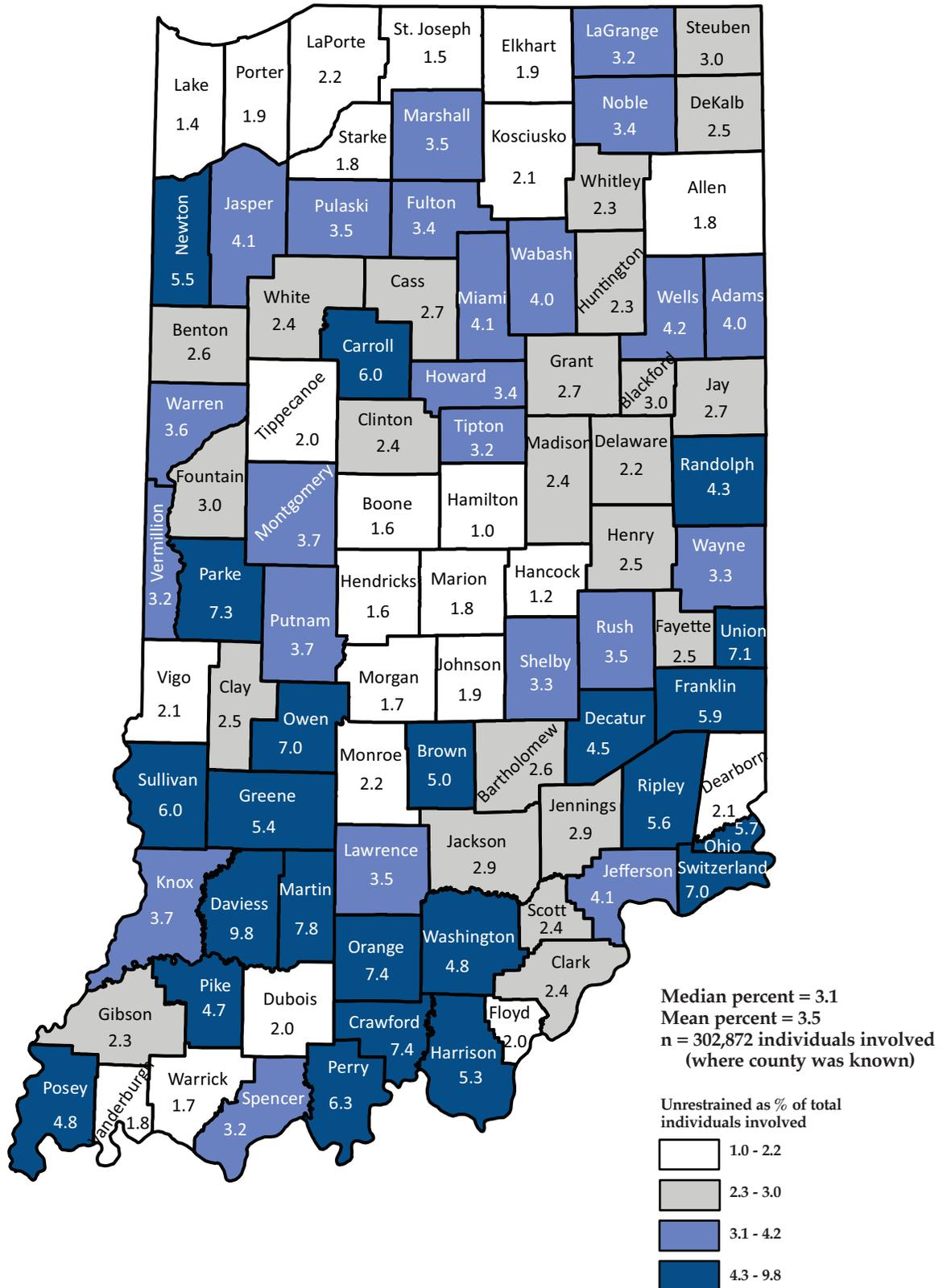
	Fatal			Incapacitating			Non-incapacitating		
	Total	Unrestrained	% Unrestrained	Total	Unrestrained	% Unrestrained	Total	Unrestrained	% Unrestrained
Marion	62	27	43.5	483	105	21.7	6,562	482	7.3
Marshall	7	4	57.1	30	8	26.7	273	32	11.7
Martin	0	0	0.0	6	2	33.3	25	3	12.0
Miami	4	2	50.0	36	8	22.2	187	25	13.4
Monroe	5	3	60.0	124	20	16.1	826	75	9.1
Montgomery	3	1	33.3	61	9	14.8	178	26	14.6
Morgan	11	2	18.2	53	10	18.9	336	21	6.3
Newton	3	1	33.3	13	4	30.8	77	9	11.7
Noble	7	3	42.9	85	14	16.5	207	21	10.1
Ohio	1	1	100.0	0	0	0.0	12	2	16.7
Orange	1	1	100.0	31	12	38.7	85	17	20.0
Owen	2	1	50.0	24	7	29.2	87	9	10.3
Parke	4	1	25.0	20	4	20.0	79	19	24.1
Perry	4	1	25.0	14	7	50.0	89	17	19.1
Pike	1	1	100.0	5	2	40.0	46	5	10.9
Porter	11	1	9.1	120	33	27.5	1,106	76	6.9
Posey	4	2	50.0	24	10	41.7	81	10	12.3
Pulaski	2	0	0.0	15	3	20.0	60	11	18.3
Putnam	9	2	22.2	27	5	18.5	125	18	14.4
Randolph	4	2	50.0	9	3	33.3	73	10	13.7
Ripley	5	4	80.0	20	6	30.0	128	25	19.5
Rush	2	0	0.0	20	5	25.0	66	6	9.1
St. Joseph	18	9	50.0	167	21	12.6	1,616	110	6.8
Scott	6	3	50.0	48	4	8.3	185	14	7.6
Shelby	6	3	50.0	69	13	18.8	314	30	9.6
Spencer	2	1	50.0	12	4	33.3	121	10	8.3
Starke	4	3	75.0	17	1	5.9	117	10	8.5
Steuben	6	4	66.7	48	15	31.3	202	30	14.9
Sullivan	2	2	100.0	24	7	29.2	92	12	13.0
Switzerland	4	2	50.0	8	1	12.5	33	5	15.2
Tippecanoe	4	2	50.0	62	24	38.7	1,191	135	11.3
Tipton	10	4	40.0	6	0	0.0	97	9	9.3
Union	2	2	100.0	6	2	33.3	21	5	23.8
Vanderburgh	19	8	42.1	87	25	28.7	1,536	137	8.9
Vermillion	4	1	25.0	18	3	16.7	70	6	8.6
Vigo	7	3	42.9	117	28	23.9	621	47	7.6
Wabash	6	3	50.0	35	8	22.9	124	17	13.7
Warren	1	1	100.0	7	0	0.0	22	4	18.2
Warrick	3	2	66.7	61	9	14.8	157	16	10.2
Washington	7	3	42.9	22	10	45.5	172	26	15.1
Wayne	7	1	14.3	67	12	17.9	404	66	16.3
Wells	4	1	25.0	22	5	22.7	121	13	10.7
White	8	2	25.0	29	4	13.8	121	13	10.7
Whitley	6	3	50.0	32	3	9.4	124	14	11.3

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES) as of March 23,, 2015

Notes:

- 1) *Non-incapacitating injuries include those reported as non-incapacitating and possible.*
- 2) *Includes only vehicle occupants (drivers and passengers). Pedestrians, pedalcyclists and animal-drawn vehicle operators are excluded.*
- 3) *Total counts include vehicle occupants identified as restrained, unrestrained, and unknown restraint usage.*

Map 9.7. Percentage of individuals involved in collisions, by county, where victim was not properly restrained, 2014



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES) as of March 23, 2015

Table 9.6. Young drivers (ages 15-20) involved in Indiana collisions, by injury status and county, 2014

County	All drivers in collisions	Young drivers in collisions									
		Total		Fatal		Incapacitating		Non-incapacitating		Other/no injury	
		Count	As % of total drivers in collisions	Count	As % of all young drivers in collisions	Count	As % of all young drivers in collisions	Count	As % of all young drivers in collisions	Count	As % of all young drivers in collisions
<b>All counties</b>	<b>315,526</b>	<b>40,460</b>	<b>12.8</b>	<b>34</b>	<b>0.1</b>	<b>419</b>	<b>1.0</b>	<b>3,585</b>	<b>8.9</b>	<b>36,422</b>	<b>90.0</b>
Mean	3,430	440	14.0	0	0.1	5	1.6	39	10.5	396	87.8
Median	1,342	197	14.0	0	0.0	3	1.2	20	9.3	170	88.7
Minimum	90	11	8.4	0	0.0	0	0.0	1	3.6	10	66.7
Maximum	51,341	5,141	20.0	4	2.5	29	7.7	466	33.3	4,642	94.6
Adams	1,024	162	15.8	0	0.0	2	1.2	12	7.4	148	91.4
Allen	18,789	2,637	14.0	1	0.0	23	0.9	242	9.2	2,371	89.9
Bartholomew	3,405	463	13.6	1	0.2	5	1.1	57	12.3	400	86.4
Benton	190	37	19.5	0	0.0	1	2.7	3	8.1	33	89.2
Blackford	455	66	14.5	0	0.0	1	1.5	5	7.6	60	90.9
Boone	2,807	368	13.1	1	0.3	6	1.6	24	6.5	337	91.6
Brown	676	94	13.9	0	0.0	3	3.2	11	11.7	80	85.1
Carroll	644	107	16.6	0	0.0	3	2.8	15	14.0	89	83.2
Cass	1,648	223	13.5	1	0.4	1	0.4	25	11.2	196	87.9
Clark	7,230	843	11.7	0	0.0	8	0.9	72	8.5	763	90.5
Clay	1,182	168	14.2	0	0.0	1	0.6	17	10.1	150	89.3
Clinton	1,569	228	14.5	0	0.0	2	0.9	24	10.5	202	88.6
Crawford	331	43	13.0	0	0.0	1	2.3	7	16.3	35	81.4
Daviess	509	79	15.5	0	0.0	0	0.0	18	22.8	61	77.2
Dearborn	2,755	391	14.2	1	0.3	10	2.6	37	9.5	343	87.7
Decatur	1,251	166	13.3	0	0.0	5	3.0	12	7.2	149	89.8
DeKalb	1,922	273	14.2	1	0.4	3	1.1	25	9.2	244	89.4
Delaware	6,405	988	15.4	0	0.0	12	1.2	81	8.2	895	90.6
Dubois	2,276	351	15.4	1	0.3	8	2.3	37	10.5	305	86.9
Elkhart	11,542	1,394	12.1	0	0.0	14	1.0	93	6.7	1,287	92.3
Fayette	659	85	12.9	0	0.0	0	0.0	8	9.4	77	90.6
Floyd	4,349	650	14.9	0	0.0	3	0.5	56	8.6	591	90.9
Fountain	587	69	11.8	1	1.4	2	2.9	10	14.5	56	81.2
Franklin	663	117	17.6	0	0.0	3	2.6	12	10.3	102	87.2
Fulton	698	107	15.3	0	0.0	1	0.9	12	11.2	94	87.9
Gibson	1,679	220	13.1	0	0.0	2	0.9	25	11.4	193	87.7
Grant	3,573	423	11.8	1	0.2	3	0.7	37	8.7	382	90.3
Greene	1,161	151	13.0	1	0.7	3	2.0	17	11.3	130	86.1
Hamilton	13,184	1,817	13.8	1	0.1	14	0.8	91	5.0	1,711	94.2
Hancock	2,638	375	14.2	0	0.0	2	0.5	35	9.3	338	90.1
Harrison	1,692	253	15.0	0	0.0	5	2.0	26	10.3	222	87.7
Hendricks	6,607	972	14.7	0	0.0	15	1.5	64	6.6	893	91.9
Henry	1,510	189	12.5	0	0.0	3	1.6	17	9.0	169	89.4
Howard	3,721	547	14.7	0	0.0	14	2.6	75	13.7	458	83.7
Huntington	1,662	225	13.5	0	0.0	5	2.2	21	9.3	199	88.4
Jackson	2,736	321	11.7	1	0.3	7	2.2	24	7.5	289	90.0
Jasper	1,812	249	13.7	0	0.0	3	1.2	40	16.1	206	82.7
Jay	903	128	14.2	0	0.0	0	0.0	11	8.6	117	91.4
Jefferson	1,474	197	13.4	0	0.0	2	1.0	26	13.2	169	85.8
Jennings	1,242	202	16.3	0	0.0	7	3.5	21	10.4	174	86.1
Johnson	5,423	769	14.2	0	0.0	4	0.5	69	9.0	696	90.5
Knox	1,303	221	17.0	0	0.0	5	2.3	18	8.1	198	89.6
Kosciusko	3,602	536	14.9	0	0.0	4	0.7	39	7.3	493	92.0
LaGrange	1,311	211	16.1	1	0.5	1	0.5	20	9.5	189	89.6
Lake	27,467	2,862	10.4	2	0.1	13	0.5	222	7.8	2,625	91.7
LaPorte	5,405	624	11.5	0	0.0	9	1.4	81	13.0	534	85.6
Lawrence	2,134	306	14.3	0	0.0	4	1.3	25	8.2	277	90.5
Madison	5,825	712	12.2	1	0.1	7	1.0	62	8.7	642	90.2

continued on next page

Table 9.6. (continued)

County	All drivers in collisions	Young drivers in collisions									
		Total		Fatal		Incapacitating		Non-incapacitating		Other/no injury	
		Count	As % of total drivers in collisions	Count	As % of all young drivers in collisions	Count	As % of all young drivers in collisions	Count	As % of all young drivers in collisions	Count	As % of all young drivers in collisions
Marion	51,341	5,141	10.0	4	0.1	29	0.6	466	9.1	4,642	90.3
Marshall	1,953	260	13.3	1	0.4	3	1.2	28	10.8	228	87.7
Martin	131	11	8.4	0	0.0	0	0.0	1	9.1	10	90.9
Miami	1,336	174	13.0	0	0.0	2	1.1	23	13.2	149	85.6
Monroe	6,294	1,031	16.4	1	0.1	6	0.6	70	6.8	954	92.5
Montgomery	1,526	196	12.8	0	0.0	10	5.1	15	7.7	171	87.2
Morgan	2,589	413	16.0	0	0.0	1	0.2	38	9.2	374	90.6
Newton	459	59	12.9	0	0.0	2	3.4	12	20.3	45	76.3
Noble	1,987	280	14.1	0	0.0	6	2.1	18	6.4	256	91.4
Ohio	90	18	20.0	0	0.0	0	0.0	4	22.2	14	77.8
Orange	739	110	14.9	0	0.0	3	2.7	13	11.8	94	85.5
Owen	687	90	13.1	0	0.0	2	2.2	9	10.0	79	87.8
Parke	595	77	12.9	0	0.0	1	1.3	6	7.8	70	90.9
Perry	600	90	15.0	0	0.0	1	1.1	12	13.3	77	85.6
Pike	251	39	15.5	0	0.0	0	0.0	13	33.3	26	66.7
Porter	7,965	1,017	12.8	0	0.0	9	0.9	105	10.3	903	88.8
Posey	813	131	16.1	0	0.0	3	2.3	14	10.7	114	87.0
Pulaski	518	59	11.4	0	0.0	1	1.7	5	8.5	53	89.8
Putnam	1,090	155	14.2	1	0.6	2	1.3	16	10.3	136	87.7
Randolph	740	103	13.9	0	0.0	2	1.9	6	5.8	95	92.2
Ripley	1,078	160	14.8	0	0.0	1	0.6	19	11.9	140	87.5
Rush	484	54	11.2	0	0.0	0	0.0	12	22.2	42	77.8
St. Joseph	12,159	1,420	11.7	3	0.2	6	0.4	113	8.0	1,298	91.4
Scott	1,148	151	13.2	0	0.0	6	4.0	23	15.2	122	80.8
Shelby	1,709	231	13.5	0	0.0	10	4.3	41	17.7	180	77.9
Spencer	763	102	13.4	0	0.0	1	1.0	18	17.6	83	81.4
Starke	805	99	12.3	1	1.0	1	1.0	12	12.1	85	85.9
Steuben	2,189	296	13.5	0	0.0	5	1.7	17	5.7	274	92.6
Sullivan	627	100	15.9	0	0.0	2	2.0	11	11.0	87	87.0
Switzerland	228	31	13.6	0	0.0	2	6.5	2	6.5	27	87.1
Tippecanoe	10,948	1,578	14.4	0	0.0	6	0.4	119	7.5	1,453	92.1
Tipton	481	79	16.4	2	2.5	0	0.0	10	12.7	67	84.8
Union	164	26	15.9	0	0.0	2	7.7	2	7.7	22	84.6
Vanderburgh	12,002	1,631	13.6	1	0.1	5	0.3	135	8.3	1,490	91.4
Vermillion	540	56	10.4	0	0.0	1	1.8	2	3.6	53	94.6
Vigo	5,298	775	14.6	0	0.0	7	0.9	58	7.5	710	91.6
Wabash	1,287	186	14.5	1	0.5	6	3.2	15	8.1	164	88.2
Warren	323	50	15.5	0	0.0	0	0.0	3	6.0	47	94.0
Warrick	2,103	340	16.2	0	0.0	7	2.1	21	6.2	312	91.8
Washington	982	131	13.3	1	0.8	2	1.5	22	16.8	106	80.9
Wayne	3,307	416	12.6	1	0.2	6	1.4	32	7.7	377	90.6
Wells	977	144	14.7	0	0.0	3	2.1	19	13.2	122	84.7
White	1,348	157	11.6	1	0.6	5	3.2	14	8.9	137	87.3
Whitley	1,242	174	14.0	0	0.0	2	1.1	10	5.7	162	93.1

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES) as of March 23, 2015

Notes:

- 1) Non-incapacitating injuries include those reported as non-incapacitating and possible injuries.
- 2) Other/no injury counts include injury type values identified as not reported, refused, unknown, invalid and missing codes.



**Table 9.7. Indiana collisions involving motorcycles, by severity and county, 2014**

County	Total		Fatal		Non-fatal injury		Property damage only	
	Count	Motorcycle collisions as % of total collisions	Count	Motorcycle collisions as % of total fatal collisions	Count	Motorcycle collisions as % of total non-fatal injury collisions	Count	Motorcycle collisions as % of total property damage collisions
<b>All counties</b>	<b>3,407</b>	<b>1.7</b>	<b>123</b>	<b>17.5</b>	<b>2,353</b>	<b>7.0</b>	<b>931</b>	<b>0.5</b>
Mean	37	1.9	1	13.6	26	8.2	10	0.6
Median	17	1.7	1	12.5	12	7.4	4	0.5
Minimum	0	0.0	0	0.0	0	0.0	0	0.0
Maximum	416	6.0	14	100.0	280	24.2	122	3.9
Adams	6	0.8	1	20.0	3	3.2	2	0.3
Allen	194	1.6	5	16.7	145	6.2	44	0.4
Bartholomew	40	1.8	2	18.2	34	6.0	4	0.3
Benton	0	0.0	0	0.0	0	0.0	0	0.0
Blackford	9	2.6	0	0.0	6	15.8	3	1.0
Boone	23	1.2	0	0.0	16	6.0	7	0.4
Brown	28	5.2	2	50.0	22	24.2	4	0.9
Carroll	17	3.3	1	16.7	14	17.5	2	0.5
Cass	17	1.5	1	16.7	8	4.8	8	0.8
Clark	72	1.6	4	36.4	45	5.8	23	0.6
Clay	11	1.4	0	0.0	8	6.7	3	0.4
Clinton	17	1.5	0	0.0	12	7.6	5	0.5
Crawford	1	0.4	0	0.0	0	0.0	1	0.4
Daviess	11	3.2	1	14.3	8	7.4	2	0.9
Dearborn	23	1.2	0	0.0	14	5.9	9	0.5
Decatur	12	1.3	1	16.7	7	5.6	4	0.5
DeKalb	21	1.5	1	12.5	16	8.8	4	0.3
Delaware	74	1.8	3	20.0	46	6.7	25	0.7
Dubois	38	2.3	0	0.0	30	12.4	8	0.6
Elkhart	130	1.7	7	35.0	82	8.6	41	0.6
Fayette	8	1.8	0	0.0	7	12.7	1	0.3
Floyd	51	1.9	0	0.0	37	7.7	14	0.6
Fountain	4	0.8	0	0.0	2	3.6	2	0.5
Franklin	15	2.9	0	0.0	13	14.9	2	0.5
Fulton	11	2.0	0	0.0	7	11.5	4	0.8
Gibson	14	1.2	1	16.7	7	3.5	6	0.6
Grant	54	2.2	0	0.0	39	11.1	15	0.7
Greene	13	1.5	2	22.2	9	7.1	2	0.3
Hamilton	80	1.1	4	28.6	45	4.4	31	0.5
Hancock	21	1.3	0	0.0	10	3.9	11	0.8
Harrison	30	2.4	2	40.0	23	9.5	5	0.5
Hendricks	56	1.4	2	28.6	38	6.4	16	0.5
Henry	13	1.2	1	12.5	6	3.9	6	0.7
Howard	65	2.8	2	20.0	46	9.4	17	1.0
Huntington	32	2.6	0	0.0	25	12.8	7	0.7
Jackson	37	1.9	3	37.5	26	9.7	8	0.5
Jasper	20	1.5	0	0.0	17	7.7	3	0.3
Jay	12	1.7	1	16.7	6	6.7	5	0.8
Jefferson	12	1.2	0	0.0	9	6.0	3	0.4
Jennings	12	1.4	1	25.0	7	4.7	4	0.6
Johnson	54	1.7	0	0.0	36	6.2	18	0.7
Knox	21	2.2	1	20.0	16	8.4	4	0.5
Kosciusko	35	1.4	1	14.3	22	6.3	12	0.6
LaGrange	13	1.3	0	0.0	12	9.5	1	0.1
Lake	158	0.9	11	25.6	106	3.8	41	0.3
LaPorte	62	1.7	6	31.6	43	6.4	13	0.4
Lawrence	29	1.9	0	0.0	21	7.8	8	0.7
Madison	79	2.0	3	14.3	52	9.7	24	0.7

continued on next page

Table 9.7. (continued)

County	Total		Fatal		Non-fatal injury		Property damage only	
	Count	Motorcycle collisions as % of total collisions	Count	Motorcycle collisions as % of total fatal collisions	Count	Motorcycle collisions as % of total non-fatal injury collisions	Count	Motorcycle collisions as % of total property damage collisions
Marion	416	1.4	14	17.7	280	5.2	122	0.5
Marshall	20	1.4	2	28.6	12	5.6	6	0.5
Martin	6	6.0	0	0.0	3	12.5	3	3.9
Miami	39	4.0	0	0.0	32	18.9	7	0.9
Monroe	94	2.3	1	14.3	73	8.9	20	0.6
Montgomery	23	2.1	0	0.0	18	10.1	5	0.6
Morgan	25	1.5	3	27.3	19	6.6	3	0.2
Newton	9	2.5	0	0.0	6	9.1	3	1.0
Noble	32	2.2	2	28.6	19	9.0	11	0.9
Ohio	3	3.8	1	100.0	0	0.0	2	3.0
Orange	12	2.0	0	0.0	11	12.4	1	0.2
Owen	10	1.9	0	0.0	6	7.3	4	0.9
Parke	15	3.0	0	0.0	9	13.4	6	1.4
Perry	14	3.2	0	0.0	14	19.7	0	0.0
Pike	4	2.1	0	0.0	3	7.3	1	0.7
Porter	90	1.8	0	0.0	72	7.6	18	0.4
Posey	19	3.1	0	0.0	12	14.1	7	1.3
Pulaski	7	1.6	0	0.0	4	7.5	3	0.8
Putnam	12	1.6	0	0.0	8	7.2	4	0.6
Randolph	14	2.6	1	25.0	9	14.8	4	0.8
Ripley	17	2.1	1	20.0	13	10.9	3	0.4
Rush	4	1.1	0	0.0	4	6.0	0	0.0
St. Joseph	114	1.4	7	30.4	77	5.5	30	0.5
Scott	6	0.8	2	33.3	2	1.3	2	0.4
Shelby	28	2.3	1	16.7	22	7.5	5	0.5
Spencer	8	1.4	0	0.0	5	5.2	3	0.6
Starke	8	1.3	0	0.0	7	7.6	1	0.2
Steuben	29	1.7	2	33.3	16	8.8	11	0.7
Sullivan	5	1.0	0	0.0	3	3.7	2	0.5
Switzerland	6	3.6	1	25.0	2	7.1	3	2.3
Tiptecanoe	149	2.1	1	20.0	110	10.7	38	0.6
Tipton	5	1.4	1	16.7	3	3.9	1	0.4
Union	7	5.6	1	50.0	5	22.7	1	1.0
Vanderburgh	174	2.5	4	23.5	121	9.3	49	0.9
Vermillion	7	1.8	0	0.0	4	6.3	3	0.9
Vigo	76	2.1	1	11.1	49	8.4	26	0.9
Wabash	20	2.1	1	14.3	13	10.3	6	0.7
Warren	1	0.4	0	0.0	1	4.2	0	0.0
Warrick	8	0.6	0	0.0	8	4.4	0	0.0
Washington	15	2.0	1	16.7	11	7.9	3	0.5
Wayne	67	2.8	1	12.5	43	12.3	23	1.1
Wells	12	1.7	0	0.0	9	8.6	3	0.5
White	13	1.3	4	57.1	7	5.8	2	0.2
Whitley	9	1.0	0	0.0	5	4.2	4	0.5

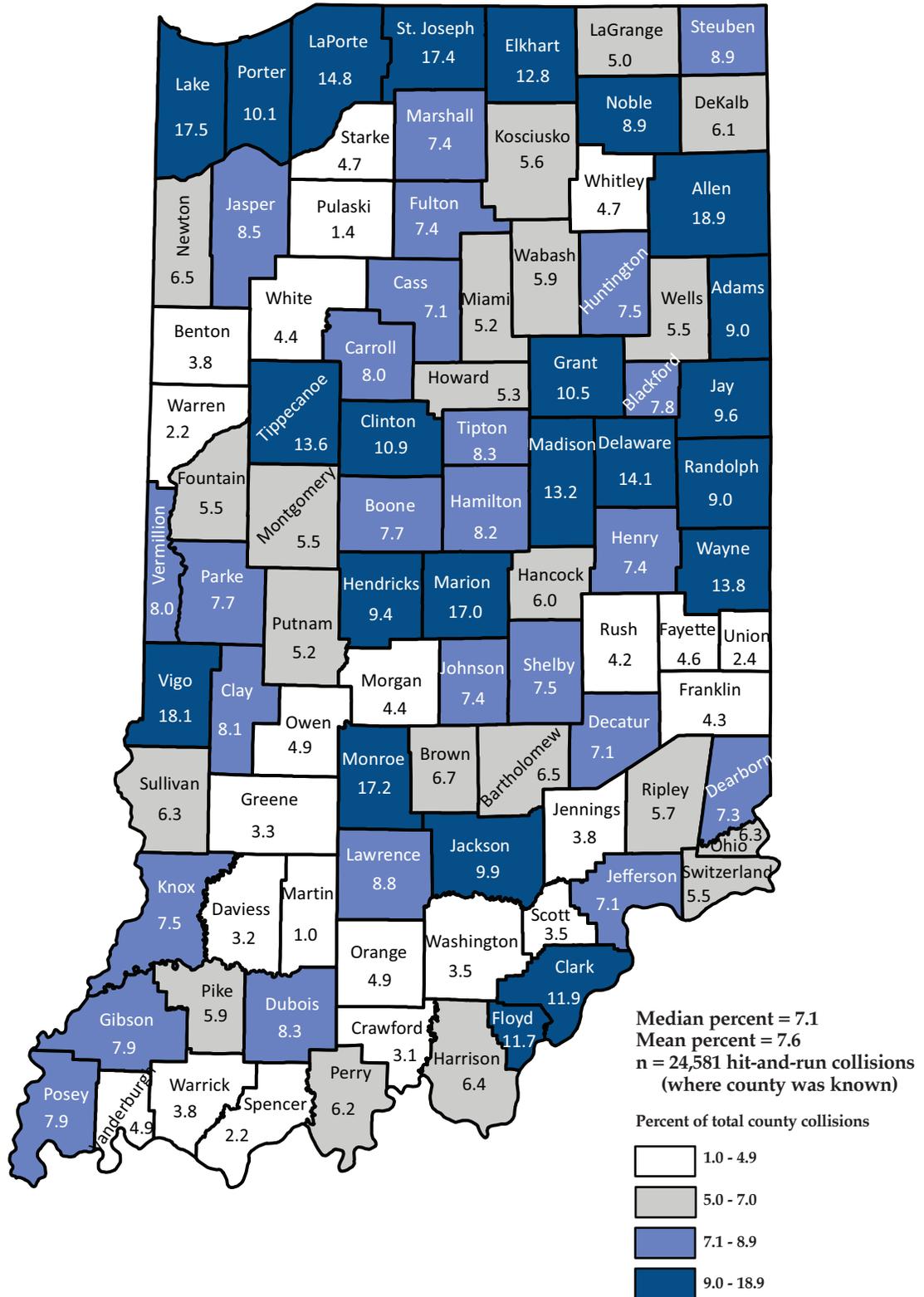
Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

Notes:

- 1) Percent calculations represent the percent of total county collisions (presented in Table 9.1) in each injury category that involved a *motorcycle* or *moped*.
- 2) *Non-fatal* injury collisions include collisions with *incapacitating, non-incapacitating* and *possible* injuries.



Map 9.10. Percentage of county collisions that involved a hit-and-run driver, 2014



Source: Indiana State Police Automated Reporting Information Exchange System (ARIES) as of March 23, 2015

**Table 9.8. County ranks by collision metric, 2014**

County	Collision metric						County rank composite
	Total collisions per 100M VMT	Speed-related collisions as % of total collisions	Alcohol-impaired collisions as % of total collisions	Motorcycle collisions as % of total collisions	Unrestrained fatal/incap injuries as % of total fatal/incap injuries	Young drivers as % of total drivers in collisions	
Adams	33	59	79	88	15	15	51
Allen	29	38	23	53	57	45	34
Bartholomew	58	50	38	41	89	51	67
Benton	89	53	5	92	64	2	57
Blackford	52	91	46	15	90	33	67
Boone	78	34	88	77	71	64	90
Brown	5	23	33	3	28	48	1
Carroll	67	3	70	7	55	5	16
Cass	26	30	73	61	24	55	42
Clark	9	77	84	55	32	84	75
Clay	60	63	15	68	91	39	73
Clinton	32	16	35	60	15	32	9
Crawford	88	56	16	90	38	69	79
Daviess	91	28	4	9	60	17	17
Dearborn	15	47	32	80	84	41	54
Decatur	63	37	85	71	2	62	64
DeKalb	56	11	22	57	45	40	30
Delaware	12	49	54	43	37	19	19
Dubois	6	61	60	21	58	20	24
Elkhart	4	6	52	48	85	79	48
Fayette	35	84	10	42	49	71	52
Floyd	7	87	41	40	70	24	42
Fountain	68	52	12	86	92	81	87
Franklin	53	4	29	12	83	3	6
Fulton	54	43	74	35	55	21	49
Gibson	62	57	25	78	46	65	71
Grant	16	18	56	25	18	80	18
Greene	44	58	75	59	34	68	74
Hamilton	41	79	58	82	86	49	88
Hancock	75	33	9	74	74	38	55
Harrison	24	76	31	20	30	23	14
Hendricks	42	42	59	65	75	29	61
Henry	80	31	47	76	25	76	72
Howard	23	70	17	13	43	30	11
Huntington	55	27	69	16	67	54	50
Jackson	21	51	67	38	51	82	60
Jasper	79	9	48	58	27	50	45
Jay	22	90	80	50	28	43	62
Jefferson	14	68	62	79	22	59	56
Jennings	38	66	81	63	76	8	70
Johnson	61	65	68	51	82	42	83
Knox	65	39	21	24	33	4	8
Kosciusko	11	44	44	66	73	26	39
LaGrange	57	1	40	75	34	11	21
Lake	17	7	57	85	54	89	59
LaPorte	40	26	19	49	53	86	46
Lawrence	8	72	49	39	26	36	27
Madison	27	60	72	33	81	78	78

continued on next page

Table 9.8. (continued)

County	Collision metric						County rank composite
	Total collisions per 100M VMT	Speed-related collisions as % of total collisions	Alcohol-impaired collisions as % of total collisions	Motorcycle collisions as % of total collisions	Unrestrained fatal/incap injuries as % of total fatal/incap injuries	Young drivers as % of total drivers in collisions	
Marion	28	64	83	69	44	91	85
Marshall	36	48	20	64	19	61	36
Martin	92	5	90	1	15	92	53
Miami	43	20	51	4	38	67	22
Monroe	2	55	77	23	66	7	27
Montgomery	45	35	86	29	80	73	77
Morgan	66	45	87	56	62	12	69
Newton	86	12	26	18	20	72	32
Noble	10	25	36	26	63	44	14
Ohio	71	92	92	5	1	1	38
Orange	13	75	43	36	8	25	13
Owen	46	46	30	37	22	66	35
Parke	50	41	7	11	52	70	30
Perry	70	86	3	8	6	22	10
Pike	90	13	1	27	3	16	2
Porter	39	19	11	44	36	74	22
Posey	69	10	63	10	7	10	5
Pulaski	49	83	28	52	67	87	81
Putnam	85	14	64	54	59	37	62
Randolph	59	82	89	17	11	47	57
Ripley	47	62	24	30	9	27	12
Rush	84	40	39	81	48	88	86
St. Joseph	25	32	45	62	77	83	65
Scott	51	78	82	87	87	63	92
Shelby	74	8	53	22	50	57	39
Spencer	77	88	37	70	12	58	76
Starke	31	74	91	73	60	77	89
Steuben	30	17	65	47	13	56	26
Sullivan	76	69	17	84	14	13	46
Switzerland	83	85	6	6	38	52	44
Tippecanoe	1	21	61	32	10	35	4
Tipton	87	2	27	67	38	6	25
Union	82	81	2	2	3	14	6
Vanderburgh	3	89	71	19	21	53	37
Vermillion	81	36	8	45	64	90	65
Vigo	18	67	34	27	38	31	20
Wabash	20	29	13	31	31	34	3
Warren	72	71	76	91	88	18	91
Warrick	48	73	78	89	71	9	82
Washington	37	80	14	34	5	60	27
Wayne	19	24	42	14	69	75	33
Wells	34	54	55	46	47	28	39
White	73	15	50	72	77	85	84
Whitley	64	22	66	83	79	46	80

Source: Indiana State Police Automated Reporting Information Exchange System (ARIES), as of March 23, 2015

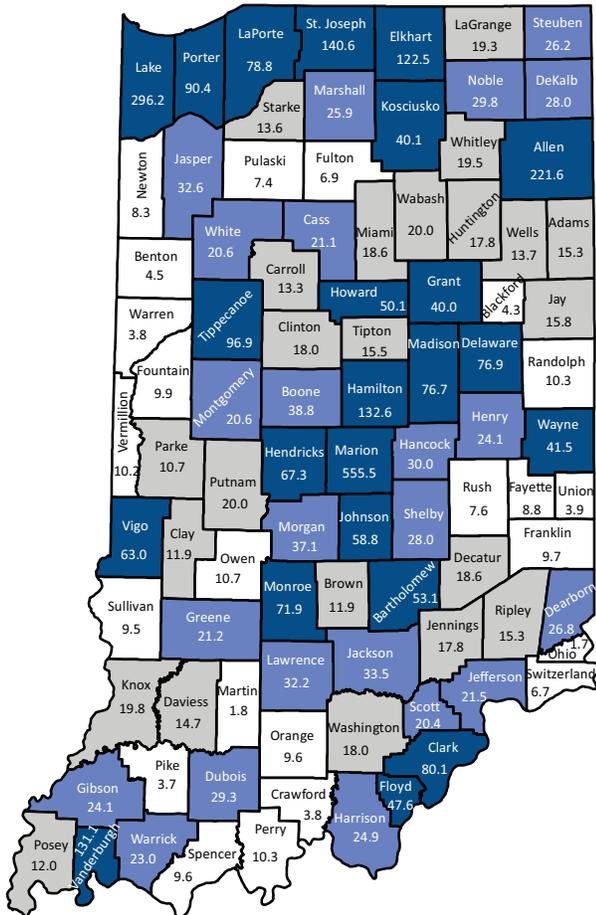


Notes:

- 1) See glossary for definition of *speed-related*.
- 2) See glossary for definition of *alcohol-impaired*.
- 3) *Motorcycle* collisions defined as collisions with at least one *motorcycle* or *moped* involved.
- 4) Young drivers are drivers ages 15 to 20.
- 5) Ties received the same rank.
- 6) County rank composite is the rank of the average county ranks across the six collision metrics presented in previous tables.
- 7) Color scale depicts rankings from high (1) to low (92) for each individual collision metric.

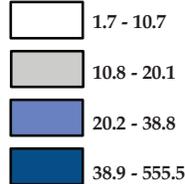


Map 9.12. Estimated costs (\$ millions) of Indiana collisions, by county, 2014

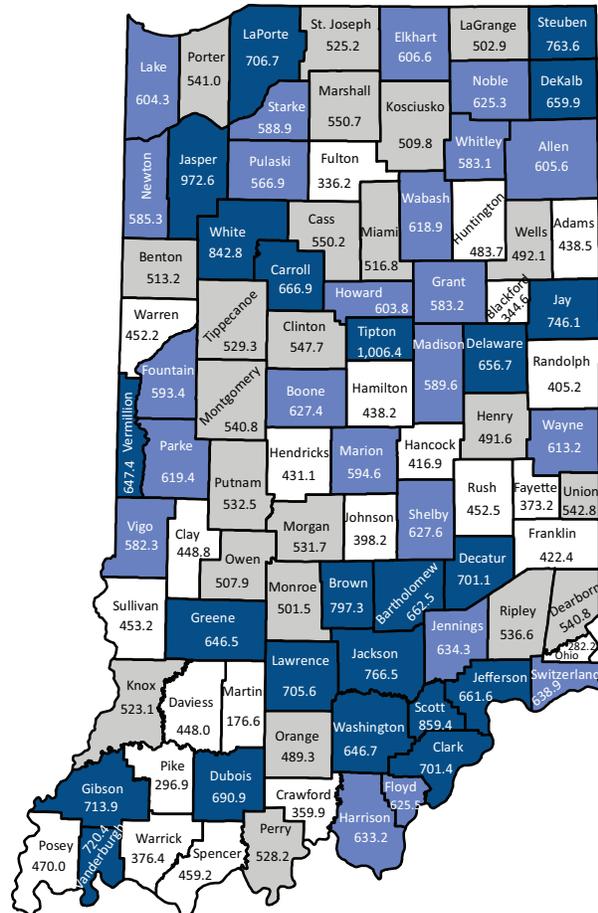


Median cost = \$20.2 million  
Mean cost = \$41.2 million

Cost per capita of county collisions (\$)

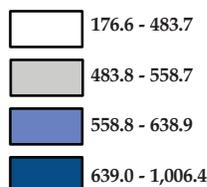


Map 9.13. Estimated costs per capita of Indiana collisions, by county, 2014



Median cost = \$558.8 per capita  
Mean cost = \$566.3 per capita

Cost per capita of county collisions (\$)



Sources:

Collisions: Indiana State Police Automated Reporting Information Exchange System (ARIES) as of March 23, 2015  
Population 2014 estimates: U.S. Census Bureau accessed from <http://www.stats.indiana.edu/>, August 8, 2015



# DATA SOURCES



## DATA SOURCES

Data in this publication come from the following sources:

- Indiana State Police Automated Reporting Information Exchange System (ARIES), current as of March 23, 2015
- Indiana Bureau of Motor Vehicles, current as of March 24, 2015
- Indiana Department of Transportation, county level VMT (2013), current as of August 1, 2015
- Bureau of Transportation Statistics, State Transportation Statistics, state level VMT, accessed August 15, 2015 at [www.bts.gov/publications/state\\_transportation\\_statistics/](http://www.bts.gov/publications/state_transportation_statistics/)
- Fatality Analysis Reporting System, National Highway Traffic Safety Administration, accessed at [www-fars.nhtsa.dot.gov/Main/index.aspx](http://www-fars.nhtsa.dot.gov/Main/index.aspx)
- U.S. Census Bureau, Population Division, Table 2. Intercensal Estimates of the Resident Population by Sex and Age: April 1, 2000 to July 1, 2010 (ST-EST00INT-02-18), accessed at [www.census.gov/popest/data/intercensal/state/state2010.html](http://www.census.gov/popest/data/intercensal/state/state2010.html)
- U.S. Census Bureau, Population Division, Table 1. Annual Estimates of the Resident Population by Sex and Age: April 1, 2010 to July 1, 2014, accessed at [www.census.gov/popest/data/state/asrh/2014/index.html](http://www.census.gov/popest/data/state/asrh/2014/index.html)
- U.S. Census Bureau, Annual Estimates of the Resident Population by Single-Year of Age and Sex for the United States and States (2013), provided by the Indiana Business Research Center, Indiana University
- U.S. Census Bureau, Population Estimates for Indiana Counties, 2010-2014, provided by the Indiana Business Research Center, Indiana University, current as of July 29, 2015, accessed at [www.stats.indiana.edu/population/popTotals/2014\\_cntyest.asp](http://www.stats.indiana.edu/population/popTotals/2014_cntyest.asp)

# INDIANA STANDARD CRASH REPORT, GLOSSARY, APPENDIX



## INDIANA OFFICER'S STANDARD CRASH REPORT

INDIANA OFFICER'S STANDARD CRASH REPORT										Page	of																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Electronic Version										Local ID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Date of Crash	Day of Week	Actual Local Time	County			Township		# Motor Vehicles	# Injured	# Dead	# Commercial Vehicles	# Deor																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Road Crash Occurred On			Nearest/Intersecting Road/Mile Marker/Interchange			If not an intersection, number of feet from		Direction		Road Classification																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Inside Corporate Limits?		City/Town or Nearest City/Town				Property?		Crash Latitude		Crash Longitude																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Driver #1			Driver #2			Driver #3			Driver #4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
<table border="0" style="width:100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p><b>Driver Contributing Circumstances</b></p> <table border="0" style="width:100%;"> <tr><td>Alcoholic Beverages</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Illegal Drugs</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Prescription Drugs</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Driver Asleep or Fatigued</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Driver Illness</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Unsafe Speed</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Failure to Yield</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Disregard Signal</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Left of Center</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Improper Passing</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Improper Turning</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Improper Lane Usage</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Following Too Closely</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Unsafe Backing</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Overcorrecting</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Ran off Road</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Wrong Way on One Way</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Pedestrian's Action</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Passenger Distraction</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Restriction Violation</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Jackknifing</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Cell Phone Usage</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Other Telematics</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Driver Distracted</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Speed/Weather Conditions</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Other</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>None</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table> </td> <td style="width: 50%; vertical-align: top;"> <p><b>Vehicle Contributing Circumstances</b></p> <table border="0" style="width:100%;"> <tr><td>Engine Failure or Defective</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Accelerator Failure or Defective</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Brake Failure or Defective</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Tire Failure or Defective</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Headlight(s) Defective or Not On</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Other Lights Defective</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Steering Failure</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Window/Windshield Defective</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Oversize/Overweight Load</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Insecure/Leaky Load</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Tow Hitch Failure</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Other</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>None</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table> <p><b>Environment Contributing Circumstances</b></p> <table border="0" style="width:100%;"> <tr><td>Glare</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Roadway Surface</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Holes/Ruts in Surface</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Shoulder Defective</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Road Under Construction</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Severe Crosswinds</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Obstruction Not Marked</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Lane Marking Obscured</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>View Obstructed</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Animal/Object in Roadway</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Traffic Ctl Inop/Missing/Obscure</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Utility Work</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Other</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>None</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table> </td> <td colspan="2" style="vertical-align: top;"> <p><b>Area Information</b></p> <p>Hit and Run <input type="checkbox"/></p> <p>School Zone <input type="checkbox"/></p> <p>Rumble Strips <input type="checkbox"/></p> <p>Locality <input type="checkbox"/></p> <p>Light Condition <input type="checkbox"/></p> <p>Weather Conditions <input type="checkbox"/></p> <p>Surface Condition <input type="checkbox"/></p> <p>Type of Median <input type="checkbox"/></p> <p>Type of Roadway Junction <input type="checkbox"/></p> <p>Road Character <input type="checkbox"/></p> <p>Roadway Surface <input type="checkbox"/></p> <p>Construction <input type="checkbox"/> If Yes, Construction Type <input type="checkbox"/></p> <p>Traffic Control Devices <input type="checkbox"/></p> <p>Traffic Control Device Operational? <input type="checkbox"/></p> <p>Was this crash the result of aggressive driving? <input type="checkbox"/></p> </td> </tr> <tr> <td colspan="2">Other Property Damage (1)</td> <td>State Property</td> <td colspan="10">Owner's Name and Address</td> </tr> <tr> <td colspan="2">Other Property Damage (2)</td> <td>State Property</td> <td colspan="10">Owner's Name and Address</td> </tr> <tr> <td colspan="6" style="text-align: center;">Witness/Other Participant</td> <td colspan="6" style="text-align: center;">Non-Motorist</td> </tr> <tr> <td><input type="checkbox"/> Witness</td> <td>#</td> <td colspan="4">Name</td> <td colspan="6">(Last Name, First Name, MI)</td> </tr> <tr> <td><input type="checkbox"/> Other Participant</td> <td>#</td> <td colspan="4">Name</td> <td colspan="3">Non-Motorist Type</td> <td colspan="3">Non-Motorist Action</td> </tr> <tr> <td colspan="6">Address etc.</td> <td colspan="6">Apparent Physical Condition</td> </tr> <tr> <td colspan="6">Phone #</td> <td colspan="6">Location at Time of Crash</td> </tr> <tr> <td><input type="checkbox"/> Witness</td> <td>#</td> <td colspan="4">Name</td> <td colspan="2">Cited?</td> <td colspan="4">Direction</td> </tr> <tr> <td><input type="checkbox"/> Other Participant</td> <td>#</td> <td colspan="4">Name</td> <td colspan="6">Street/Highway</td> </tr> <tr> <td colspan="6">Address etc.</td> <td colspan="6">Traffic Control?</td> </tr> <tr> <td colspan="6">Phone #</td> <td colspan="6">If yes, was traffic control operational?</td> </tr> <tr> <td colspan="6">Location at Time of Crash</td> <td colspan="6"></td> </tr> </table>								<p><b>Driver Contributing Circumstances</b></p> <table border="0" style="width:100%;"> <tr><td>Alcoholic Beverages</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Illegal Drugs</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Prescription Drugs</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Driver Asleep or Fatigued</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Driver Illness</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Unsafe Speed</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Failure to Yield</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Disregard Signal</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Left of Center</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Improper Passing</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Improper Turning</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Improper Lane Usage</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Following Too Closely</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Unsafe Backing</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Overcorrecting</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Ran off Road</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Wrong Way on One Way</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Pedestrian's Action</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Passenger Distraction</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Restriction Violation</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Jackknifing</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Cell Phone Usage</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Other Telematics</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Driver Distracted</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Speed/Weather Conditions</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Other</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>None</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table>	Alcoholic Beverages	<input type="checkbox"/>	Illegal Drugs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Prescription Drugs	<input type="checkbox"/>	Driver Asleep or Fatigued	<input type="checkbox"/>	Driver Illness	<input type="checkbox"/>	Unsafe Speed	<input type="checkbox"/>	Failure to Yield	<input type="checkbox"/>	Disregard Signal	<input type="checkbox"/>	Left of Center	<input type="checkbox"/>	Improper Passing	<input type="checkbox"/>	Improper Turning	<input type="checkbox"/>	Improper Lane Usage	<input type="checkbox"/>	Following Too Closely	<input type="checkbox"/>	Unsafe Backing	<input type="checkbox"/>	Overcorrecting	<input type="checkbox"/>	Ran off Road	<input type="checkbox"/>	Wrong Way on One Way	<input type="checkbox"/>	Pedestrian's Action	<input type="checkbox"/>	Passenger Distraction	<input type="checkbox"/>	Restriction Violation	<input type="checkbox"/>	Jackknifing	<input type="checkbox"/>	Cell Phone Usage	<input type="checkbox"/>	Other Telematics	<input type="checkbox"/>	Driver Distracted	<input type="checkbox"/>	Speed/Weather Conditions	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	<input type="checkbox"/>	<p><b>Vehicle Contributing Circumstances</b></p> <table border="0" style="width:100%;"> <tr><td>Engine Failure or Defective</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Accelerator Failure or Defective</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Brake Failure or Defective</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Tire Failure or Defective</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Headlight(s) Defective or Not On</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Other Lights Defective</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Steering Failure</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Window/Windshield Defective</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Oversize/Overweight Load</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Insecure/Leaky Load</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Tow Hitch Failure</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Other</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>None</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table> <p><b>Environment Contributing Circumstances</b></p> <table border="0" style="width:100%;"> <tr><td>Glare</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Roadway Surface</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Holes/Ruts in Surface</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Shoulder Defective</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Road Under Construction</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Severe Crosswinds</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Obstruction Not Marked</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Lane Marking Obscured</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>View Obstructed</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Animal/Object in Roadway</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Traffic Ctl Inop/Missing/Obscure</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Utility Work</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Other</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>None</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table>	Engine Failure or Defective	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Accelerator Failure or Defective	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Brake Failure or Defective	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tire Failure or Defective	<input type="checkbox"/>	Headlight(s) Defective or Not On	<input type="checkbox"/>	Other Lights Defective	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Steering Failure	<input type="checkbox"/>	Window/Windshield Defective	<input type="checkbox"/>	Oversize/Overweight Load	<input type="checkbox"/>	Insecure/Leaky Load	<input type="checkbox"/>	Tow Hitch Failure	<input type="checkbox"/>	Other	<input type="checkbox"/>	None	<input type="checkbox"/>	Glare	<input type="checkbox"/>	Roadway Surface	<input type="checkbox"/>	Holes/Ruts in Surface	<input type="checkbox"/>	Shoulder Defective	<input type="checkbox"/>	Road Under Construction	<input type="checkbox"/>	Severe Crosswinds	<input type="checkbox"/>	Obstruction Not Marked	<input type="checkbox"/>	Lane Marking Obscured	<input type="checkbox"/>	View Obstructed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Animal/Object in Roadway	<input type="checkbox"/>	Traffic Ctl Inop/Missing/Obscure	<input type="checkbox"/>	Utility Work	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	<input type="checkbox"/>	<p><b>Area Information</b></p> <p>Hit and Run <input type="checkbox"/></p> <p>School Zone <input type="checkbox"/></p> <p>Rumble Strips <input type="checkbox"/></p> <p>Locality <input type="checkbox"/></p> <p>Light Condition <input type="checkbox"/></p> <p>Weather Conditions <input type="checkbox"/></p> <p>Surface Condition <input type="checkbox"/></p> <p>Type of Median <input type="checkbox"/></p> <p>Type of Roadway Junction <input type="checkbox"/></p> <p>Road Character <input type="checkbox"/></p> <p>Roadway Surface <input type="checkbox"/></p> <p>Construction <input type="checkbox"/> If Yes, Construction Type <input type="checkbox"/></p> <p>Traffic Control Devices <input type="checkbox"/></p> <p>Traffic Control Device Operational? <input type="checkbox"/></p> <p>Was this crash the result of aggressive driving? <input type="checkbox"/></p>		Other Property Damage (1)		State Property	Owner's Name and Address										Other Property Damage (2)		State Property	Owner's Name and Address										Witness/Other Participant						Non-Motorist						<input type="checkbox"/> Witness	#	Name				(Last Name, First Name, MI)						<input type="checkbox"/> Other Participant	#	Name				Non-Motorist Type			Non-Motorist Action			Address etc.						Apparent Physical Condition						Phone #						Location at Time of Crash						<input type="checkbox"/> Witness	#	Name				Cited?		Direction				<input type="checkbox"/> Other Participant	#	Name				Street/Highway						Address etc.						Traffic Control?						Phone #						If yes, was traffic control operational?						Location at Time of Crash																																																																																																																																																																																																			
<p><b>Driver Contributing Circumstances</b></p> <table border="0" style="width:100%;"> <tr><td>Alcoholic Beverages</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Illegal Drugs</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Prescription Drugs</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Driver Asleep or Fatigued</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Driver Illness</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Unsafe Speed</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Failure to Yield</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Disregard Signal</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Left of Center</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Improper Passing</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Improper Turning</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Improper Lane Usage</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Following Too Closely</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Unsafe Backing</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Overcorrecting</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Ran off Road</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Wrong Way on One Way</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Pedestrian's Action</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Passenger Distraction</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Restriction Violation</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Jackknifing</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Cell Phone Usage</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Other Telematics</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Driver Distracted</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Speed/Weather Conditions</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Other</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>None</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table>	Alcoholic Beverages	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Illegal Drugs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Prescription Drugs	<input type="checkbox"/>	Driver Asleep or Fatigued	<input type="checkbox"/>	Driver Illness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unsafe Speed	<input type="checkbox"/>	Failure to Yield	<input type="checkbox"/>	Disregard Signal	<input type="checkbox"/>	Left of Center	<input type="checkbox"/>	Improper Passing	<input type="checkbox"/>	Improper Turning	<input type="checkbox"/>	Improper Lane Usage	<input type="checkbox"/>	Following Too Closely	<input type="checkbox"/>	Unsafe Backing	<input type="checkbox"/>	Overcorrecting	<input type="checkbox"/>	Ran off Road	<input type="checkbox"/>	Wrong Way on One Way	<input type="checkbox"/>	Pedestrian's Action	<input type="checkbox"/>	Passenger Distraction	<input type="checkbox"/>	Restriction Violation	<input type="checkbox"/>	Jackknifing	<input type="checkbox"/>	Cell Phone Usage	<input type="checkbox"/>	Other Telematics	<input type="checkbox"/>	Driver Distracted	<input type="checkbox"/>	Speed/Weather Conditions	<input type="checkbox"/>	Other	<input type="checkbox"/>	None	<input type="checkbox"/>	<p><b>Vehicle Contributing Circumstances</b></p> <table border="0" style="width:100%;"> <tr><td>Engine Failure or Defective</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Accelerator Failure or Defective</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Brake Failure or Defective</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Tire Failure or Defective</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Headlight(s) Defective or Not On</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Other Lights Defective</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Steering Failure</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Window/Windshield Defective</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Oversize/Overweight Load</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Insecure/Leaky Load</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Tow Hitch Failure</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Other</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>None</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table> <p><b>Environment Contributing Circumstances</b></p> <table border="0" style="width:100%;"> <tr><td>Glare</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Roadway Surface</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Holes/Ruts in Surface</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Shoulder Defective</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Road Under Construction</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Severe Crosswinds</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Obstruction Not Marked</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Lane Marking Obscured</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>View Obstructed</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Animal/Object in Roadway</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Traffic Ctl Inop/Missing/Obscure</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Utility Work</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Other</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>None</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table>	Engine Failure or Defective	<input type="checkbox"/>	Accelerator Failure or Defective	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Brake Failure or Defective	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tire Failure or Defective	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Headlight(s) Defective or Not On	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other Lights Defective	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Steering Failure	<input type="checkbox"/>	Window/Windshield Defective	<input type="checkbox"/>	Oversize/Overweight Load	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Insecure/Leaky Load	<input type="checkbox"/>	Tow Hitch Failure	<input type="checkbox"/>	Other	<input type="checkbox"/>	None	<input type="checkbox"/>	Glare	<input type="checkbox"/>	Roadway Surface	<input type="checkbox"/>	Holes/Ruts in Surface	<input type="checkbox"/>	Shoulder Defective	<input type="checkbox"/>	Road Under Construction	<input type="checkbox"/>	Severe Crosswinds	<input type="checkbox"/>	Obstruction Not Marked	<input type="checkbox"/>	Lane Marking Obscured	<input type="checkbox"/>	View Obstructed	<input type="checkbox"/>	Animal/Object in Roadway	<input type="checkbox"/>	Traffic Ctl Inop/Missing/Obscure	<input type="checkbox"/>	Utility Work	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	None	<input type="checkbox"/>	<p><b>Area Information</b></p> <p>Hit and Run <input type="checkbox"/></p> <p>School Zone <input type="checkbox"/></p> <p>Rumble Strips <input type="checkbox"/></p> <p>Locality <input type="checkbox"/></p> <p>Light Condition <input type="checkbox"/></p> <p>Weather Conditions <input type="checkbox"/></p> <p>Surface Condition <input type="checkbox"/></p> <p>Type of Median <input type="checkbox"/></p> <p>Type of Roadway Junction <input type="checkbox"/></p> <p>Road Character <input type="checkbox"/></p> <p>Roadway Surface <input type="checkbox"/></p> <p>Construction <input type="checkbox"/> If Yes, Construction Type <input type="checkbox"/></p> <p>Traffic Control Devices <input type="checkbox"/></p> <p>Traffic Control Device Operational? <input type="checkbox"/></p> <p>Was this crash the result of aggressive driving? <input type="checkbox"/></p>																																																																																																																																																																																																																																																																																																																																											
Alcoholic Beverages	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Illegal Drugs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Prescription Drugs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Driver Asleep or Fatigued	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Driver Illness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Unsafe Speed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Failure to Yield	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Disregard Signal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Left of Center	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Improper Passing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Improper Turning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Improper Lane Usage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Following Too Closely	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Unsafe Backing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Overcorrecting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Ran off Road	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Wrong Way on One Way	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Pedestrian's Action	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Passenger Distraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Restriction Violation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Jackknifing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Cell Phone Usage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Other Telematics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Driver Distracted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Speed/Weather Conditions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Engine Failure or Defective	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Accelerator Failure or Defective	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Brake Failure or Defective	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Tire Failure or Defective	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Headlight(s) Defective or Not On	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Other Lights Defective	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Steering Failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Window/Windshield Defective	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Oversize/Overweight Load	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Insecure/Leaky Load	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Tow Hitch Failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Glare	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Roadway Surface	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Holes/Ruts in Surface	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Shoulder Defective	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Road Under Construction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Severe Crosswinds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Obstruction Not Marked	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Lane Marking Obscured	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
View Obstructed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Animal/Object in Roadway	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Traffic Ctl Inop/Missing/Obscure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Utility Work	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Other Property Damage (1)		State Property	Owner's Name and Address																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Other Property Damage (2)		State Property	Owner's Name and Address																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Witness/Other Participant						Non-Motorist																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
<input type="checkbox"/> Witness	#	Name				(Last Name, First Name, MI)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
<input type="checkbox"/> Other Participant	#	Name				Non-Motorist Type			Non-Motorist Action																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Address etc.						Apparent Physical Condition																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Phone #						Location at Time of Crash																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
<input type="checkbox"/> Witness	#	Name				Cited?		Direction																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
<input type="checkbox"/> Other Participant	#	Name				Street/Highway																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Address etc.						Traffic Control?																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Phone #						If yes, was traffic control operational?																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Location at Time of Crash																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

Local ID

<b>Type of Crash</b>					
Time Notified	Time Arrived	Other Location of Investigation			
Assisting Officer		ID No.	Agency	Investigation Complete?	Photos Taken?
Assisting Officer		ID No.	Agency	Date of Report	
Investigating Officer		ID No.	Agency	Reviewing Officer	

**Narrative**

UNIT INFORMATION										Page	of			
Local ID														
Driver's Name (Last, First, MI)					Safety Equipment Used									
Address (Street, City, State, Zip)					Safety Equipment Effective?									
					Ejection/Trapped									
Date of Birth		Age		Gender		EMS No.		Inmed Attn		Driver Injury Status				
Driver's License #			Lic Type		CDL Class		Lic State		Nature of Most Severe Injury					
<b>Apparent Physical Status</b> <input type="checkbox"/> Normal <input type="checkbox"/> Had Been Drinking <input type="checkbox"/> Handicapped <input type="checkbox"/> Ill <input type="checkbox"/> Asleep/Fatigued <input type="checkbox"/> Drugs/Medication <input type="checkbox"/> Unknown			<b>Restrictions</b> <input type="checkbox"/> Glasses/Contact Lenses <input type="checkbox"/> Outside Rearview Mirror <input type="checkbox"/> Daylight Driving <input type="checkbox"/> Automatic Transmission <input type="checkbox"/> Special Controls <input type="checkbox"/> Employment Only <input type="checkbox"/> Motorcycle Only <input type="checkbox"/> Tol/From Employment			<b>Restrictions</b> <input type="checkbox"/> Employer's Vehicle Only <input type="checkbox"/> State-Owned Vehicles <input type="checkbox"/> PP Chauffeurs Taxi Only <input type="checkbox"/> Power Steering <input type="checkbox"/> Special Restrictions <input type="checkbox"/> Probation DWI <input type="checkbox"/> Probation HTO <input type="checkbox"/> None			<b>Location of Most Severe Injury</b>  If Cited? <input type="checkbox"/> Infraction <input type="checkbox"/> Misdemeanor <input type="checkbox"/> Felony				<b>IC Codes</b>	
Test Given NONE		Type Given												
		<input type="checkbox"/> Blood		<input type="checkbox"/> Urine		<input type="checkbox"/> Breath		<input type="checkbox"/> SFST		<input type="checkbox"/> PBT				
Alcohol Results				Certified Test				Drug Results						
PBT				<input type="checkbox"/> Pending										
Veh#		Color		Vehicle Year		Make		Model		Style				
# Occupants		Lic Year		License #		License State								
# Axles		Speed Limit		Insured By		Phone Number								
Vehicle Identification#					Initial Impact Area									
Registered Owner's Name (Last, First, MI)					<input type="checkbox"/> Same as Driver						<input type="checkbox"/> Undercarriage <input type="checkbox"/> Trailer <input type="checkbox"/> None <input type="checkbox"/> Unknown			
Address (Street, City, State, Zip)											<input type="checkbox"/> Undercarriage <input type="checkbox"/> Trailer <input type="checkbox"/> None <input type="checkbox"/> Unknown			
Towed?					To By		Reason							
Lic State		Lic Year		Registered Owner's Name (Last, First, MI)		<input type="checkbox"/> Same as Driver		Emergency Run?		Fire?				
License#		Address (Street, City, State, Zip)								NO				
Veh Year		Make						Vehicle Type						
Lic State		Lic Year		Registered Owner's Name (Last, First, MI)		<input type="checkbox"/> Same as Driver		Pre-Crash Vehicle Action						
License#		Address (Street, City, State, Zip)						Direction of Travel						
Veh Year		Make						Type of Primary/Secondary Roadway						
Commercial Vehicle: Carrier's Name and Address					One Way Traffic		Two Way Traffic							
					<input type="checkbox"/> One Lane		<input type="checkbox"/> Two Lanes		<input type="checkbox"/> Private Drive					
					<input type="checkbox"/> Two Lanes		<input type="checkbox"/> Multi-Lane Divided (3 or more)		<input type="checkbox"/> Alley					
					<input type="checkbox"/> Multi-Lanes (3 or more)		<input type="checkbox"/> Multi-Lane Undivided 2 way left turn							
							<input type="checkbox"/> Multi-Lane Undivided (3 or more)							
HAZMAT Proper Shipping Name:				State DOT#		Event Collision With								
US DOT#		ICC#		CMV Inspection		If Yes								
Gross Vehicle Weight Rating			Cargo Body Type											
HAZMAT Placard		HAZMAT Release of Cargo		HAZMAT 4-Digit ID#		Hazzard Class #								

# GLOSSARY

## Aggressive Driving

A collision is defined as involving aggressive driving when the driver of a motor vehicle was engaged in at least two of the following actions: (1) driving at an unsafe speed; (2) failing to yield right of way; (3) disregarding a regulatory signal/sign; (4) improper passing; (5) improper turning; (6) improper lane usage; or (7) following too closely.

## Alcohol Involvement/Alcohol-related

The terms “alcohol-related” or “alcohol-involved” do not indicate that a crash or fatality was caused by the presence of alcohol.

National Highway Traffic Safety Administration (NHTSA) defines a fatal crash as alcohol-related or alcohol-involved if at least one driver or nonoccupant (such as a pedestrian or pedalcyclist) involved in the crash is determined to have had a Blood Alcohol Concentration (BAC) of 0.01 gram per deciliter (g/dL) or higher. NHTSA defines a nonfatal crash as alcohol-related or alcohol-involved if police indicate on the police accident report that there is evidence of alcohol present. The code does not necessarily mean that a driver or nonoccupant was tested for alcohol.

Indiana defines a crash as alcohol-related or alcohol-involved if any of the following are true: (1) *alcoholic beverages* is listed as the primary factor of the collision; (2) *alcoholic beverages* is listed as a contributing circumstance in the collision; (3) any vehicle driver or non-motorist (pedestrian, pedalcyclist) involved in the collision had a BAC test result greater than zero; (4) the collision report lists the apparent physical condition of any vehicle driver or non-motorist involved as had been drinking; or (5) a vehicle driver is issued an Operating While Intoxicated (OWI) citation.

## Alcohol-impaired

A collision in which any vehicle driver involved has a BAC test result at or above 0.08 g/dL.

## Attributable/Attributability

A vehicle and/or driver is considered attributable in a collision when linked by the reporting officer to the primary factor or cause of the collisions.

## Blood Alcohol Concentration

The BAC is measured as a percentage by weight of alcohol in the blood (grams/deciliter). A positive BAC level (0.01 g/dL and higher) indicates that alcohol was consumed by the person tested; a BAC level of 0.08 g/dL or more indicates that the person was legally impaired.

## Bus

Large motor vehicles used to carry nine or more passengers, including school buses, inter-city buses, and transit buses.

## Census-based Locale

*Urban* is defined as Census 2010 Urban Areas, *suburban* as areas within 2.5 miles of urban boundaries, *exurban* as areas within 2.5 miles of suburban boundaries, and *rural* as areas beyond exurban boundaries (i.e., everything else).

## Cited/Citation

When a person involved in a collision is charged with a violation (traffic or criminal) relating to the motor vehicle crash. The document produced is a citation.

## Combination Vehicle

A truck consisting primarily of a transport device which is a single-unit truck or truck tractor together with one or more attached trailers.

## Commercial Vehicle

1. *A Truck*. A vehicle equipped for carrying property and having a Gross Vehicle Weight Rating (GVWR) or Gross Combination Weight Rating (GCWR) over 10,000 pounds.
2. *A Bus*. A motor vehicle designed to transport nine or more occupants.
3. *Any Vehicle*. Displaying a hazardous materials placard.

## Contributing Circumstance

Actions of the driver, apparent environmental conditions, or apparent vehicle conditions that contributed to the collision.

## Collision/Crash

An event that produces injury and/or property damage, involves a motor vehicle in transport, and occurs on a trafficway or while the vehicle is still in motion after running off the trafficway.

## Collision/Crash Severity

1. *Fatal Crash*. A police-reported crash involving a motor vehicle in transport on a trafficway in which at least one person dies within 30 days of the crash.
2. *Injury Crash*. A police-reported crash involving a motor vehicle in transport on a trafficway in which no one died but a least one person was reported to have: (1) an incapacitating injury; (2) a non-incapacitating injury; or (3) a possible, not visible injury.
3. *Property Damage Only Crash*. A police-reported crash involving a motor vehicle in transport on a trafficway in which no one involved in the crash suffered any injuries. Indiana statute states the estimated property damage must be \$1000 or more.

## Dark (Lighted)

The time between dusk and dawn, and where there are lights designed and installed to illuminate the roadway. This does not include lighting from storefronts, houses, etc.

## Dark (Not lighted)

The time between dusk and dawn, and where there are no lights designed or installed to illuminate the roadway.

## Glossary, continued

### Day

From 6:00a to 5:59p.

### Disregarding Traffic Signal

A collision where one or more drivers disregarded a traffic signal or flashing signal at a road intersection (excludes interstates).

### Driver

An occupant of a vehicle who is in physical control of a motor vehicle in transport, or for an out-of-control vehicle, an occupant who was in control until control was lost.

### Ejection

Refers to occupants being totally or partially thrown from the vehicle as a result of an impact or rollover.

### Fatal Injury

Any injury that results in death within a 30-day period after the crash occurred.

### Fixed Object

Stationary structures or substantial vegetation attached to the terrain. Examples include guardrail, bridge railing or abutments, trees, utility poles, ditches, culverts, and buildings.

### Gross Combination Weight Rating (GCWR)

The value specified by the manufacturer as the loaded weight of a combination (articulated) motor vehicle. In absence of a value specified by the manufacturer, GCWR will be determined by adding the GVWR of the power unit and the total weight of the towed unit and any load thereon.

### Gross Vehicle Weight Rating (GVWR)

The maximum rated capacity of a vehicle, including the weight of the base vehicle, all added equipment, driver and passengers, and all cargo loaded into or on the vehicle. Actual weight may be less than or greater than GVWR.

### Hazardous Materials

Any substance or material which has been determined by the U.S. Department of Transportation, or other authorizing entity, to be capable of posing an unreasonable risk to health, safety, and property when transported in commerce. Any motor vehicle transporting quantities of hazardous materials in quantities above the thresholds established by the USDOT, or other authorized entity, is required to display a hazardous materials placard.

### Hazardous Materials Placard

A sign that must be affixed to any motor vehicle transporting hazardous materials in quantities above the thresholds established by the USDOT, or other authorized entity. This placard identifies the hazard class division number, four-digit hazardous material identification number or name of the hazardous material being transported.

### ICJI

Indiana Criminal Justice Institute.

### Incapacitating Injury

A non-fatal injury that prevents the injured person from walking, driving, or normally continuing the activities the person was capable of performing before the injury occurred. Hospitalization is usually required. Examples are severe lacerations, broken limbs, skull fracture, crushed chest, internal injuries, etc. The most recent ARIES upgrade added a clarification to reporting officers on the definition of incapacitating injuries criteria to include *transported from scene for treatment*.

### Inspection Level 1 - North American Standard Inspection

An inspection that includes examination of driver's license, medical examiner's certificate and waiver, if applicable, alcohol and drugs, driver's record of duty status as required, hours of service, seat belt, vehicle inspection report, brake system, coupling devices, exhaust system, frame, fuel system, turn signals, brake lamps, tail lamps, head lamps, lamps on projecting loads, safe loading, steering mechanism, suspension, tires, van and open-top trailer bodies, wheels and rims, windshield wipers, emergency exits on buses and hazardous materials (HM) requirements, as applicable.

[www.fmcsa.dot.gov/safety-security/safety-initiatives/mcsap/insplevels.htm](http://www.fmcsa.dot.gov/safety-security/safety-initiatives/mcsap/insplevels.htm)

### Inspection Level 3 - Driver-only inspection

A roadside examination of the driver's license, medical certification and waiver, if applicable, driver's record of duty status as required, hours of service, seat belt, vehicle inspection report, and HM requirements, as applicable.

<http://www.fmcsa.dot.gov/safety-security/safety-initiatives/mcsap/insplevels.htm>

### Intersection

An area of roadway which is: (1) at a crossing or connection of two or more roadways not classified as a driveway; and (2) the area of the roadway measured less than 33 feet from the apex of two roadways at the curb or boundary line. Types of intersections noted on the Indiana Crash Report are: 1) T-intersections; 2) Y-intersections; 3) Four-way intersection; 4) Interchange; 5) Five points or more; 6) Ramp; and 7) Traffic circle/roundabout.

### ISP

Indiana State Police.

### Jackknife

Jackknife can occur at any time during the crash sequence. Jackknifing is generally restricted to truck tractors pulling a trailing unit in which the trailing unit and the pulling vehicle rotate with respect to each other.

### Junction

Area formed by the connection of two roadways, including intersections, interchange areas, and entrance/exit ramps.

## Glossary, continued

### Lane Control

Visible lane markings such as hash marks or lines that separate lanes of travel.

### Large Trucks

Trucks over 10,000 pounds gross vehicle weight rating, including single unit trucks and truck tractors.

### Licensed Drivers

The annual count of licensed drivers in a given location (e.g., county, state, nation).

### Light Trucks

Trucks of 10,000 pounds gross vehicle weight rating or less, including pickups, vans, truck-based station wagons, and sport utility vehicles.

### Motorcycle

A two- or three-wheeled motor vehicle designed to transport one or two people. This category can include motor scooters, minibikes, and mopeds, etc.; however, the Indiana reporting system separates the two categories.

### Motor Vehicle in Transport

A motor vehicle in motion on the trafficway or any other motor vehicle on the roadway, including stalled, disabled, or abandoned vehicles.

### Night

From 6:00p to 5:59a.

### Non-incapacitating Injury

An injury, other than a fatal or incapacitating injury, which is evident to the officer at the scene of the crash and may require medical treatment, although hospitalization is usually not required. Examples are abrasions, minor bleeding, and lacerations.

### Non-motorist

Any person who is not an occupant of a motor vehicle in transport and includes the following: (1) pedestrians; (2) pedalcyclists; and (3) persons riding in animal-drawn vehicles.

### Not Injured

*Not injured* status includes individuals involved in collisions reported as *null* values in the injury status code field. While reporting officers are instructed to enter all drivers in ARIES, passengers are only to be entered in the crash report if an injury occurs; therefore, not injured counts should be interpreted with caution.

### Occupant

Any person who is in or upon a motor vehicle in transport. Includes the driver, passengers, and persons riding on the exterior of a motor vehicle.

### Odds

Odds are calculated as the ratio of the count of an incident occurring to the count of the incident not occurring. For example, in 100 crashes, if there are 24 involving serious bodily injury, the odds of a serious bodily injury (SBI) collision =  $24/76 = .32$ .

### Odds ratio

The ratio of the odds of an event occurring in one group to the odds of it occurring in another group. For example, if the odds of SBI for motorcycle riders and passenger car occupants is .21 and .01, respectively, the OR of motorcyclists compared to car occupants =  $.21/.01 = 19.2$  (i.e., motorcyclists are 19.2 times more likely to experience an SBI than are car occupants).

### Passenger

Any occupant of a motor vehicle who is not a driver.

### Passenger Car

Motor vehicles used primarily for carrying passengers, including convertibles, sedans, and station wagons.

### Passenger Vehicles

Passenger vehicles are defined as *passenger cars*, *pickup trucks*, *SUVs*, and *vans*.

### Pedalcyclist

A person on a bicycle or vehicle that is powered solely by pedals.

### Pedestrian

Any person walking or not in or upon a motor vehicle or other vehicle.

### Pedestrian Collision

A collision in which a pedestrian was involved or *pedestrian action* was listed as a contributing factor to the collision.

### Pickup Truck

A motor vehicle designed to carry ten persons or less, with an exposed bed.

### Possible Injury

Any injury reported or claimed which is not visible. Example: the complaint of back or neck pain (normally included in non-incapacitating injury category).

### Primary Factor

The single factor which the investigating officer believes to be the main or primary factor which contributed to the collision's occurrence. Each collision may have only one primary factor.

*Driver: Unsafe actions* include primary factors of *following too closely*, *failure to yield right of way*, *unsafe backing*, *disregard signal/reg sign*, *improper turning*, *speed too fast for weather conditions*, *unsafe lane movement*, *improper lane usage*, *unsafe speed*, *left of center*, *improper passing* and *wrong way on one way*.

## Glossary, continued

*Driver: Loss of control* include primary factors of *ran off road right, ran off road left* and *overcorrecting/oversteering*.

*Driver: Distraction* include primary factors of *driver distracted (explained in narrative), cell phone usage, other telematics in use* and *passenger distraction*.

*Driver: Cognitive impairment* include primary factors of *driver asleep or fatigued, driver illness, alcoholic beverages, prescription drugs* and *illegal drugs*.

*Environmental* include primary factors of *animal on roadway, roadway surface condition, view obstructed, other (explained in narrative)-environment, obstruction not marked, severe crosswinds, traffic control problem, holes/ruts in surface, glare, lane marking obscured, road under construction* and *shoulder defective*.

*Vehicle-related* include primary factors of *brake failure or defective, other (explained in narrative)-vehicle, tire failure or defective, insecure/leaky load, steering failure, accelerator failure or defective, engine failure or defective, oversize/overweight load, headlight defective or not on, tow hitch failure* and *other lights defective*.

*All other* include primary factors of *other (explained in narrative)-driver, pedestrian action, not a factor-driver, not a factor-vehicle, violation of license restriction* and *not a factor-environment*.

*Unknown* include primary factors of *unknown* and *invalid*.

### Property Damage Collision

A police-reported crash involving a motor vehicle in transport on a trafficway in which no one involved in the crash suffered any injuries but at least one vehicle or property was damaged.

### Registered Vehicles

The annual count of registered vehicles in a given location (e.g., county, state, nation).

### Relative Risk

A measure of the risk of injury determined by comparing the likelihood of an injury in collisions involving certain circumstances with the likelihood of an injury in collisions not involving those circumstances (e.g., the likelihood of a fatal injury when a collision involves speeding versus when it does not). If two percent of collisions involving speeding result in a fatality and one percent of collisions not involving speeding result in a fatality, the relative risk of a fatality when speed is involved equals two (2% / 1%); that is, collisions that involve speeding are two times more likely to result in a fatality than those that do not. Relative risk is often used to measure the risk of a fatal injury but can be used to measure the risk of any type of injury.

### Restraint Use

The occupant's use of available vehicle restraints including lap belt, shoulder belt, or automatic belt.

### Roadway

That part of a trafficway designed, improved, and ordinarily used for motor vehicle travel.

### Rollover

Rollover is defined as any vehicle rotation of 90 degrees or more about any true longitudinal or lateral axis. Includes rollovers occurring as a first harmful event or subsequent event.

### Seating Position

The location of the occupants in the vehicle. More than one can be assigned the same seat position; however, this is allowed only when a person is sitting on someone's lap.

### Semi-trailer

A trailer, other than a pole trailer, designed for carrying property and so constructed that part of its weight rest upon or is carried by the power unit.

### Single-unit Truck

A medium or heavy truck in which the engine, cab, drive train, and cargo area are all on one chassis. (Can have two axles and six tires on the ground, or three or more axles).

### Speed-related

A collision is identified as speed-related if any one of the following conditions is met: (1) *unsafe speed* or *speed too fast for weather conditions* is listed as the primary or contributing factor of the collision; (2) a vehicle driver is issued a speeding citation.

### Sport Utility Vehicle (SUV)

A multi-purpose motor vehicle designed for carrying less than ten persons, which is constructed on a truck chassis or with special features for occasional off-road operation, other than a pickup truck. These vehicles are generally four-wheel-drive (4x4) and have increased ground clearance, and a gross vehicle weight rating (GVWR) of 10,000 pounds or less.

### Tractor (Semi)

A motor vehicle consisting of a single power unit device designed primarily for pulling semi-trailers.

### Traffic Circle/Roundabout

An intersection of roads where vehicles must travel around a circle to continue on the same road or to connect to an intersecting road.

### Traffic Control Signal

Includes the red/green/yellow signal and/or a flashing signal.

### Trapped

Persons who are restrained in the vehicle by damaged vehicle components as a result of a crash, and who have to be freed from the vehicle.

### Unit

Denotes a motor vehicle, pedestrian, pedalcyclist, or other entity involved in the collision.

### Unknown Injury

Injuries reported on the *Indiana Crash Report* as: 1) *refused* (treatment); 2) *unknown*; 3) *not reported*; and 4) *invalid codes*.

### **Unsafe Backing**

Backing increases the risk for crash because it is much more difficult to see obstacles behind you and requires more space to maneuver. Common unsafe backing actions include: *Improper body position, speed too fast, failure to yield and determine the path of travel is clear, failure to look back during the whole maneuver until the vehicle is completely stopped, and incorrect steering.*

### **Van**

A motor vehicle consisting primarily of a transport device that has a gross vehicle weight rating of 10,000 pounds or less and is basically a “box on wheels” that is identifiable by its enclosed passenger and/or cargo area, step-up floor, and relatively short (or nonexistent) hood. Examples are passenger vans, cargo or delivery vans, and van-based mini-motor homes.

### **Vehicle Miles Traveled**

The annual vehicle distance traveled in miles (VMT).

### **Weekday**

From 6:00a Monday to 5:59p Friday.

### **Weekend**

From 6:00p Friday to 5:59a Monday.

### **Work Zone**

An area of a trafficway where construction, maintenance, or utility work activities are identified by warning signs/signals/indicators, including those on transport devices (e.g., signs, flashing lights, channelizing devices, barriers, pavement markings, flagmen, warning signs, and arrow boards mounted on the vehicles in a mobile maintenance activity) that mark the beginning and end of a construction, maintenance, or utility work activity.

It extends from the first warning sign, signal, or flashing lights to the END ROAD WORK sign or the last traffic control device pertinent for that work activity.

Work zones also include roadway sections where there is ongoing, moving (mobile) work activity such as lane line painting or roadside mowing only if the beginning of the ongoing, moving (mobile) work activity is designated by warning signs or signals.

### **Young Driver**

A driver of a motor vehicle whose age is between the ages of 15 and 20 years old.

## **APPENDIX A: Methods for producing economic costs of traffic collisions in Indiana**

For the purposes of *Indiana Crash Facts*, economic costs represent the monetary and non-monetary impacts produced by injuries and property damage in traffic collisions. These costs are calculated by taking existing estimates of costs, broken down into various impact categories, by the incidence of traffic injuries and property damage to vehicles in collisions. The general methodology used here follows that in economic cost reports produced by the National Highway Traffic Safety Administration (NHTSA).<sup>1</sup> Several intermediate procedures were performed on the data to arrive at final cost estimates.

### **1. Injury classifications**

Cost estimates are based on the *Maximum Abbreviated Injury Scale* (MAIS), a medical assessment of the most severe injury incurred.<sup>2</sup> The MAIS scale ranges from MAIS 0 (no injury), to MAIS 6 (fatality), with incremental levels representing increasing levels of bodily damage (i.e., decreasing probabilities of survival). Indiana crash reports, however, use the KABCO (K=fatal; A=incapacitating; B=non-incapacitating; C=possible; O=not injured) system of injury classification, in which an officer with no medical training can make a general assessment of the injury severity to individuals involved in the collision. As such, Indiana injury data classifications must be converted to the MAIS system to obtain the cost estimates.

Data taken from the National Automotive Sampling System (NASS) from 1982 to 1986 were used to create this injury

“translator”.<sup>3,4</sup> These data encompass a representative survey of crashes in the United States and provide individual-level information on individuals involved; from it, KABCO injuries can be proportionally distributed into MAIS categories. Data were taken from this time period because it represents the most recent data that contain both KABCO and MAIS designations of injury at the individual level. Note that the injury translator can apportion fatalities (K) to MAIS designations, but the data in *Indiana Crash Facts* does not do this for ease of interpretation.

### **2. Cost estimates and price deflation**

Economic cost estimates were obtained from NHTSA economic cost reports.<sup>5</sup> The data are in year 2000 US dollars and accordingly must be adjusted for the effects of the time value of money and for regional price differences. These adjustments were made using annual average price indexes for the United States and Midwest published by the Bureau of Labor Statistics and are current through 2014.<sup>6</sup>

Once costs were adjusted to current economic conditions, the values were multiplied by the incidence of injuries and vehicles that sustained property damage only (i.e., no injured occupants) to arrive at total cost estimates.

<sup>1</sup>Blincoe, L., Seay, A., Zaloshnja, E., Miller, T., Romano, E., Luchter, S., & R. Spicer. (May 2002). The economic impact of motor vehicle crashes, 2000. (DOT HS809 446) National Highway Traffic Safety Administration, Washington D.C.

<sup>2</sup>Association for the Advancement of Automotive Medicine. [www.carcrash.org](http://www.carcrash.org)

<sup>3</sup>[www.nhtsa-tsis.net/projects/NHTSA/NHTSA\\_NASS.htm](http://www.nhtsa-tsis.net/projects/NHTSA/NHTSA_NASS.htm)

<sup>4</sup>National Automotive Sampling System, 1982-1986; "Ejection Mitigation Using Advanced Glazing: A Status Report, November 1995", NHTSA

<sup>5</sup>Blincoe et al., 2002.

<sup>6</sup>Bureau of Labor Statistics. Average Price Data (Consumer Price Index – CPI). [www.bls.gov/cpi/#tables](http://www.bls.gov/cpi/#tables).



# INDIANA CRASH FACTS



## 2014

An electronic copy of this document can be accessed via the PPI website ([www.policyinstitute.iu.edu](http://www.policyinstitute.iu.edu)), the ICJI traffic safety website [www.in.gov/cji/](http://www.in.gov/cji/), or you may contact the Indiana University Public Policy Institute at 317-261-3000.

