

Road Crash Statistics 2016

Analysis of Transport Research Wing, Ministry of Road Transport and Highways Data, 2016

I. Introduction

1,50,785 people were killed, which translates to around **12 deaths per 100,000 people**, and **4,94,624** were injured in road crashes in India in 2016. This number is not only the highest that India has ever recorded in history, in terms of road crash deaths, but it represents a **32% increase** since 2007, and nearly a **tenfold** increase since 1970. The number also translates to **413** fatalities every day and **17** deaths every hour due to road crashes.

While there is a **4.1% and 1.1% reduction** in road crashes and road crash injuries respectively, since 2015, road crash deaths have **increased by 3.2%**.

II. Most affected demographics

1. According to the 2016 data, a **two-wheeler** rider is the most at risk of being killed in a road crash. The number of people killed in crashes involving two-wheelers was **44,366** in 1,62,280 incidents.
2. The age-group of **18-45** years was most at risk of being killed, with **68.6 per cent** of all fatalities occurring among this productive age-group.
3. Males constituted over **84.5 per cent** of all fatalities with 1,27,453 being killed in road crashes in 2015.
4. The number of fatal crashes has seen a consistent rise since 2005 and accident severity expressed in terms of persons killed per 100 accidents, has gone up from 29.1 in 2015 to 31.4 in 2016.
5. The key highlights are listed below,
 - **34.8 per cent** of the people killed in road crashes were on two-wheelers, which is more than in any other mode of transport
 - **84.5 per cent** of the people killed in road crashes were males and **15.5 per cent** females.
 - **46.3 per cent** of the people killed in road crashes were between the ages of 18-35.
 - Vulnerable Road Users (two-wheelers, bicycles, pedestrians, etc.) make up **47 per cent** of the total fatalities.

Vehicle-type-wise distribution of road crashes

S.No	Vehicle Type	Incidents	%Share
1.	Two-Wheelers	1,62,280	33.8
2.	Auto-Rickshaws	31,440	6.5
3.	Cars, Jeeps, Taxis	1,13,267	23.6
4.	Buses	37,487	7.8
5.	Trucks, Tempos, Tractors and other Articulated Vehicles	1,01,085	21.0
6.	Other Motor Vehicles	13,255	2.8
7.	Non-motorised Vehicles/Objects	21,838	4.5

Vehicle-type-wise distribution of road crash fatalities

S.No	Vehicle Type	Fatalities	% Share
1.	Pedestrians	15,746	10.5
2.	Bicycles	2,585	1.7
3.	Two-wheelers	52,500	34.8
4.	Auto-rickshaws	7,150	4.7
5.	Car, Taxis, Vans and Other Light Motor Vehicles	26,923	17.9
6.	Trucks	16,876	11.2
7.	Buses	9,969	6.6
8.	Other Motor Vehicles	15,988	10.6
9.	Others*	3,048	2.0

(*Includes animal drawn vehicles, cycle rickshaws, hand carts and other persons)

Age-group-wise distribution of road crash fatalities

S. No	Age Group	Fatalities	% Share
1.	Less than 18	10,622	7.0
2.	18-25	31,775	21.1
3.	25-35	38,076	25.3
4.	35-45	33,558	22.3
5.	45-60	22,174	14.7
6.	60 & above	8,814	5.8
7.	Age not known	5,766	3.8

III. Most Affected States

According to the data, **Tamil Nadu** leads the list of road crashes in India by a long margin, as does **Uttar Pradesh** for the number of fatalities.

Top 10 States for Road crashes

S.No	State	No. of Crashes	% Share
1.	Tamil Nadu	71,431	14.9
2.	Madhya Pradesh	53,972	11.2
3.	Karnataka	44,403	9.2
4.	Maharashtra	39,878	8.3
5.	Kerala	39,420	8.2
6.	Uttar Pradesh	35,612	7.4
7.	Andhra Pradesh	24,888	5.2
8.	Rajasthan	23,066	4.8
9.	Telangana	22,811	4.7
10.	Gujarat	21,859	4.5

Top 10 States for Fatalities

S.No	State	Fatalities	%Share
1.	Uttar Pradesh	19,320	12.8
2.	Tamil Nadu	17,218	11.4
3.	Maharashtra	12,935	8.6
4.	Karnataka	11,133	7.4
5.	Rajasthan	10,465	6.9
6.	Madhya Pradesh	9,646	6.4
7.	Andhra Pradesh	8,541	5.7
8.	Gujarat	8,136	5.4
9.	Telangana	7,219	4.8
10.	West Bengal	6,544	4.3

Top 10 States for Injuries

S.No	State	Injuries	%Share
1.	Tamil Nadu	82,163	16.6
2.	Madhya Pradesh	57,873	11.7
3.	Karnataka	54,556	11.0
4.	Kerala	44,108	8.9
5.	Maharashtra	35,884	7.3
6.	Andhra Pradesh	30,051	6.1
7.	Uttar Pradesh	25,096	5.1
8.	Telangana	24,217	4.9
9.	Rajasthan	24,103	4.9
10.	Gujarat	19,949	4.0

Top 10 Cities for Road Crashes

S. No	City	Crashes
1.	Chennai	7,486
2.	Delhi	7,375
3.	Bengaluru	5,323
4.	Indore	5,143
5.	Kolkata	4,104
6.	Bhopal	3,571
7.	Mumbai	3,379
8.	Jabalpur	3,256
9.	Jaipur	3,004
10.	Hyderabad	2,945

Top 10 Cities for Fatalities

S.No	City	Fatalities
1.	Delhi	1,591
2.	Chennai	1,183
3.	Jaipur	890
4.	Bengaluru	835
5.	Kanpur	684
6.	Lucknow	631
7.	Mumbai	562
8.	Agra	522
9.	Allahabad	488
10.	Patna	484

Top 10 Cities for Injuries

S.No	City	Injuries
1.	Chennai	7,349
2.	Delhi	7,154
3.	Jabalpur	5,780
4.	Bengaluru	4,264
5.	Indore	4,263
6.	Mumbai	3,517
7.	Mallapuram	3,264
8.	Kolkata	3,182
9.	Thiruvananthapuram	2,994
10.	Bhopal	2,650

IV. Road Crashes by Time of Day

According to the data, most crashes take place between **3:00PM and 6:00PM**. Overall, the data reflected that a major portion of road crashes take place during the day.

Time of Day	No. of Crashes	% Share in Total
06:00 – 09:00	54,522	11.3
09:00 – 12:00	75,771	15.7
12:00 – 15:00	73,380	15.3
15:00 – 18:00	85,834	17.9
18:00 – 21:00	84,555	17.6
21:00 – 24:00	50,970	10.6
00:00 – 03:00	25,976	5.4
03:00 – 06:00	29,644	6.2

V. Other Data

- Protruding load caused **22,705** crashes, which killed **8,476** people and injured **21,178**.
- Overloading/ overcrowding of vehicles caused **61,325** crashes, which killed **21,302** people and injured **61,857**.
- **84 per cent** of the crashes were attributed to fault of the driver, which killed **1,21,126** people and injured **4,14,785**.
- **1.4 per cent** of the crashes were caused by defects in the condition of the **vehicle**, which killed **2,823** people and injured **6,956**.
- **1.5 per cent** of the crashes were caused by defects in the condition of the **road**, which killed **2,983** people and injured **6,579**.
- Road Crashes due to use of mobile phone while driving were **4,976** with **2,138 deaths** and **4,746 injuries**.
- Road crashes due to non-use of helmets resulted in **10,135 deaths** and non-use of seat belts led to **5,638 deaths**.

VI. Trends over the last decade

The last decade registered the first decline in the number of road crashes as well as fatalities from one year to the next. However, road crash fatalities rose to the **highest number ever recorded in 2016**. Road crashes, on the other hand, **declined in 2016** yet again. Key observations with respect to trend in crashes and fatalities is listed below,

- The number of road crashes nationwide registered its first decline in 2011, a decline of **1,942** road crashes
- The number continued to fall till 2013, by which time the drop in road crashes was **13,152**
- The number began to rise again after 2013, and subsequently rose to the highest ever recorded in 2015. In 2016, the number saw a 4.1% decline.
- The number of fatalities registered its first decline in 2012, a decline of **4,227** fatalities.
- The number continued to fall till 2013, by which time the drop in fatalities was **4,913**.
- The number began to rise again after 2013, and subsequently rose to the highest ever recorded in 2016.