

India's Road Crash Statistics: 2022 Overview

The following is a compilation of key road crash statistics from the report 'Road Accidents in India 2022' published by Ministry of Road Transport and Highways and 'Accidental Deaths and Suicides in India 2022' published by National Crime Records Bureau

According to the Ministry of Road Transport and Highways (MoRTH), **1,68,491 people were killed**, and **4,43,366 injured in 4,61,312 road crashes** in India in 2022. Speeding was the major cause of road crash deaths (71.2% of the total). While two-wheeler users accounted for almost half (44.5%) of the total deaths, pedestrians alone accounted for nearly 20% of the road crash fatalities. Further, over half of all road crash deaths took place on national and state highways, despite the fact that they make up only about 4.9% of the total road network.

*On average, India witnessed **1,263 road crashes and 461 deaths every day or 53 crashes and 19 deaths every hour.***

Total Number of Road Crashes, Injuries and Deaths in the last five years

As compared to 2021, the year 2022 saw an increase of 11.9% in the number of road crashes and an increase of 9.4% in the number of road crash fatalities. However, **the road crash severity** decreased from 37.3 in 2021 to 36.5 in 2022¹.

This can be attributed to the fact that the proportional increase in the crashes was higher than that in road crash fatalities.

The road crash death risk (normalized for population) in 2022 was 12.2, a marginal increase from 2021 (11.3).

Year	Crashes	Fatalities	Injuries
2022	4,61,312 ↑	1,68,491 ↑	4,43,366 ↑
2021	4,12,432↑	1,53,972↑	3,84,448↑
2020	3,72,181 ↓	1,38,383↓	3,46,747↓
2019	4,56,959 ↓	1,58,984↓	4,49,360↓
2018	4,70,403↑	1,57,593↑	4,64,715 ↓

¹ Road crash severity is measured by deaths per 100 crashes.

Top 10 States in terms of Road Crash Fatalities

In terms of **road crash fatalities**, **Uttar Pradesh** registered the maximum number of deaths at **13.4%**.

This was followed by Tamil Nadu at 10.6% and Maharashtra at **9%**. Listed below are the top 10 states with regard to road crash fatalities in 2022:

Top 10 ² States	Crash ³ Severity	Road Crash Fatalities				
	2022	2022	2021	2020	2019	2018
Uttar Pradesh	54.1	22,595 (13.4%)	21,227 (13.8%)	19,149 (13.8%)	22,655 (14.3%)	22,256 (14.1%)
Tamil Nadu	27.9	17,884 (10.6%)	15,384 (10%)	14,527 (10.5%)	18,129 (11.4%)	18,392 (11.7%)
Maharashtra	45.6	15,224 (9%)	13,528 (8.8%)	11,569 (8.4%)	12,788 (8%)	13,261 (8.4%)
Madhya Pradesh	24.7	13,427 (8%)	12,057 (7.8%)	11,141 (8.1%)	11,249 (7.1%)	10,706 (6.8%)
Karnataka	29.4	11,702 (6.9%)	10,038 (6.5%)	9,760 (7.1%)	10,958 (6.9%)	10,990 (7%)
Rajasthan	47	11,104 (6.6%)	10,043 (6.5%)	9,250 (6.7%)	10,563 (6.6%)	10,320 (6.5%)
Bihar	82.4	8,898 (5.3%)	7,660 (5%)	6,699 (4.8%)	7,205 (4.5%)	6,729 (4.3%)
Andhra Pradesh	39	8,293 (4.9%)	8,186 (5.3%)	7,039 (5.1%)	7,984 (5%)	7,556 (4.8%)
Gujarat	48.4	7,618 (4.5%)	7,452 (4.8%)	6,170 (4.5%)	7,390 (4.6%)	7,996 (5.1%)
Telangana	35	7,559 (4.5%)	7,557 (4.9%)	6,882 (5%)	6,964 (4.4%)	6,603 (4.2%)
TOTAL (top 10 states)	(avg.=43.4)	1,24,304 (73.8%)	1,13,132 (73.5%)	1,02,186 (73.8%)	1,15,885 (72.9%)	1,14,809 (72.9%)

² RAI 2022 pg. 79

³ RAI 2022 pg. 123

Top 10 States in terms of Road Crashes

Tamil Nadu (13.9%) topped the country in terms of the total number of road crashes followed by Madhya Pradesh **(11.8%)** and Kerala **(9.5%)**. The top 10 states in terms of total road crashes, ranked according to their performance in 2022, are as follows:

Top 10 ⁴ States	Crashes Per Lakh Pop.	Road Crashes				
		2022	2021	2020	2019	2018
Tamil Nadu	83.7	64,105 (13.9%)	55,682 (13.5%)	49,844 (13.4%)	62,685 (13.7%)	67,279 (14.3%)
Madhya Pradesh	63.6	54,432 (11.8%)	48,877 (11.9%)	45,266 (12.2%)	50,669 (11.1%)	51,397 (11%)
Kerala	123.2	43,910 (9.5%)	33,296 (8.1%)	27,877 (7.5%)	41,111 (9%)	40,181 (8.5%)
Uttar Pradesh	17.9	41,746 (9%)	37,729 (9.1%)	34,243 (9.2%)	42,572 (9.3%)	42,568 (9%)
Karnataka	59.1	39,762 (8.6%)	34,647 (8.4%)	34,178 (9.2%)	40,658 (8.9%)	41,707 (8.9%)
Maharashtra	26.6	33,383 (7.2%)	29,477 (7.1%)	24,971 (6.7%)	32,925 (7.2%)	35,717 (7.6%)
Rajasthan	29.5	23,614 (5.1%)	20,951 (5.1%)	19,114 (5.1%)	23,480 (5.1%)	21,743 (4.6%)
Telangana	57.0	21,619 (4.7%)	21,315 (5.2%)	19,172 (5.2%)	21,570 (4.7%)	22,230 (4.7%)
Andhra Pradesh	40.1	21,249 (4.6%)	21,556 (5.2%)	19,509 (5.2%)	21,992 (4.8%)	24,475 (5.2%)
Gujarat	22.3	15,751 (3.4%)	15,186 (3.7%)	13,398 (3.6%)	17,046 (3.7%)	18,769 (4%)
TOTAL (Top 10 states)	Average = 52.3	3,59,571 (77.9%)	3,18,716 (77.3%)	2,87,572 (77.3%)	3,54,708 (77.6%)	3,66,066 (77.8%)

⁴ RAI 2022 pg. 119

Top 10 States in terms of Road Crash Fatalities on ‘National Highways’

Uttar Pradesh witnessed the highest number of road crash deaths on national highways followed by Tamil Nadu.

Top 10 states for road crash deaths are as follows:

States/UTs ⁵	% share in Total	2022	2021	2020	2019	2018
Uttar Pradesh	13.9	8,479	8,506	7,859	8,830	8,818
Tamil Nadu	9.8	5,978	5,263	5,454	6,661	6,756
Maharashtra	8.1	4,923	4,080	3,528	3,799	4,088
Karnataka	6.8	4,164	3,487	3,330	3,842	3,986
Rajasthan	6.8	4,156	3,829	3,320	3,870	3,874
Madhya Pradesh	6.6	4,025	3,389	3,022	2,904	2,601
Bihar	6.5	3,953	3,517	3,285	3,436	3,051
Andhra Pradesh	6.2	3,793	3,602	2,858	3,114	2,929
Telangana	4.9	3,010	2,735	2,620	2,491	2,064
Gujarat	3.5	2,109	2,077	1,797	1,898	2,171
Total Top 10	73.1	44,590	40,485	37,073	40,845	40,338
All India Total		61,038	56,007	50,251	56,587	56,310

⁵ RAI 2022 pg. 81

Top 5 Million-plus cities in terms of Road Crash Fatalities

In a city-wise analysis, **Delhi (1,461)** was the city with the highest number of road crash fatalities, followed by **Bengaluru (772)**.

The top 5 cities ranked highest in road crash fatalities in 2022 are as follows:

City	Crash Severity	Road Crash Fatalities				
	2022	2022	2021	2020	2019	2018
Delhi	26.3	1,461 (8.5%)	1,239 (8.07%)	1,196 (8.83%)	1,463 (8.22%)	1,690 (9.54%)
Bengaluru	20.4	772 (4.5%)	654 (4.26%)	646 (4.77%)	768 (4.32%)	686 (3.87%)
Jaipur	28.9	765 (4.5%)	625 (4.07%)	606 (4.47%)	1,283 (7.21%)	692 (3.91%)
Kanpur	44.2	640 (3.7%)	598 (3.9%)	563 (4.16%)	692 (3.89%)	698 (3.94%)
Indore	13.6	639 (3.74%)	484 (3.15%)	459 (3.39%)	328 (1.84%)	322 (1.82%)

Age-wise Distribution of Road Crash Fatalities

As per age-wise breakdown of road crash data, the maximum lives were lost **within the 18-45 age bracket, comprising 66.5% (1,12,072) of the total road crash fatalities in 2022.**

9,528 children were killed due to road crashes in 2022, i.e. around **26 children died every day during the year.**

The age-wise break up is as follows:

Age Group ⁶		Road Crash Fatalities				
		2022	2021	2020	2019	2018
Below 18 years		9,528 (5.7%)	7,764 (5%)	6,998 (5.3%)	11,168 (7.4%)	9,977 (6.6%)
18-35 years	18-25 years	33,350 (19.8%)	31,750 (20.6%)	27,612 (21%)	33,206 (22%)	32,777 (21.6%)
	25-35 years	42,671 (25.3%)	39,646 (25.7%)	34,947 (26.5%)	39,023 (25.8%)	39,960 (26.4%)
35-45 years		36,051 (21.4%)	32,741 (21.3%)	29,379 (22.3%)	32,509 (21.5%)	32,672 (21.6%)
45-60 years		28,407 (16.9%)	26,085 (16.9%)	20,938 (15.9%)	22,612 (15%)	22,798 (15.1%)
60 and above		13,636 (8.1%)	11,739 (7.6%)	8,380 (6.4%)	9,004 (6%)	9,075 (6%)

Note: 4,848 victims (2.9%) of unknown age died in 2022.

⁶ RAI 2022 pg. 62

Road Typology-wise Distribution of Road Crash Fatalities

Highways (both State and National), which account for only 4.9% of the total road network, witnessed **56.1% (2,58,679) of all road crashes⁷ and almost 61% of all road crash fatalities in the country.**

The road typology-wise data is as follows:

⁸ Road Type	Road Crash Fatalities				
	2022	2021	2020	2019	2018
National Highways	61,038 (36.2%)	56,007 (36.4%)	50,251 (36.3%)	56,587 (35.6%)	56,310 (35.7%)
State Highways	41,012 (24.3%)	37,963 (24.7%)	35,754 (25.8%)	41,461 (26.1%)	42,704 (27.1%)
Other Roads	66,441 (39.4%)	60,002 (38.9%)	52,378 (37.8%)	60,936 (38.3%)	58,579 (37.2%)

⁷ RAI 2022 Pg. 30

⁸ RAI 2022 pg. 30

Cause-wise Distribution of Road Crash Fatalities

In a cause-wise split, speeding claimed more lives on the road than all the other causes together. Out of the total, **71.2% of the fatalities have been caused due to speeding.**

The cause-wise data is as follows:

Cause	Road Crash Fatalities				
	⁹ 2022	2021	¹⁰ 2020	2019	2018
Speeding	1,19,904 (71.2%)	1,07,236 (69.6%)	91,239 (69.3%)	1,01,723 (67.3%)	97,588 (64.4%)
Driving on the wrong side	9,094 (5.4%)	8,122 (5.3%)	7,332 (5.6%)	9,201 (6.1%)	8,764 (5.8%)
Drunk Driving/ consumption of alcohol and drugs	4,201 (2.5%)	3,314 (2.2%)	3,322 (2.5%)	5,325 (3.5%)	4,188 (2.8%)
Use of Mobile Phones	3,395 (2%)	2,982 (1.9%)	2,917 (2.2%)	4,945 (3.3%)	3,707 (2.4%)
Jumping Red light	1,462 (0.9%)	679 (0.4%)	864 (0.7%)	1,797 (1.2%)	1545 (1%)
Others	30,435 (18.1%)	31,639 (20.5%)	26,040 (19.8%)	28,122 (18.6%)	35,695 (23.5%)

⁹ RAI 2022 pg. 45

¹⁰ RAI 2020 Pg.54

Road user-wise Distribution of Road Crash Fatalities

The number of pedestrians killed in road crashes increased from 29,124 in 2021 to 32,825 in 2022 i.e. an **increase of 13%**.

Road user-wise, the proportion of fatalities of two-wheeler users has been almost half of the total fatalities that have occurred in 2022 (44.5%).

Moreover, there has been an **increase of 7.9% in the number of two-wheeler user fatalities in 2022 over 2021**. Together, two-wheelers and pedestrians accounted for 64% of the crash-related deaths and were the most vulnerable category, keeping in line with global trends.

The road user type-wise data is as follows:

Road User Type	Road Crash Fatalities				
	¹¹ 2022	2021	¹² 2020	2019	2018
Two-Wheelers	74,897 (44.5%)	69,385 (45.1%)	57,282 (43.5%)	56,136 (37.1%)	55,336 (36.5%)
Car, Taxi, Vans & LMVs	21,040 (12.5%)	19,811 (12.9%)	18,095 (13.7%)	23,900 (15.8%)	25,115 (16.6%)
Pedestrians	32,825 (19.5%)	29,124 (18.9%)	23,483 (17.8%)	25,858 (17.1%)	22,656 (15%)
Trucks/Lorries	10,584 (6.3%)	9,476 (6.2%)	9,824 (7.5%)	13,532 (9%)	15,150 (10%)
Other Non-Motor Vehicles (Including E-Rickshaws)	2,372 (1.4%)	2,283 (1.5%)	3,312 (2.5%)	3,065 (2%)	11,109 (7.3%)
Buses	4,004 (2.4%)	3,106 (2%)	3,001 (2.3%)	6,529 (4.3%)	8,164 (5.4%)
Auto-Rickshaws	6,596 (3.9%)	5,966 (3.9%)	5,086 (3.9%)	6,655 (4.4%)	6,629 (4.4%)
Bicycles	4,836 (2.9%)	4,702 (3.1%)	4,167 (3.2%)	4,196 (2.8%)	3,673 (2.4%)
Others (Animal carts, cycle rickshaws, hand carts)	11,337 (6.7%)	10,119 (6.6%)	7,464 (5.7%)	11,242 (7.4%)	3,585 (2.4%)

¹¹ RAI 2022 pg. 69

¹² RAI 2020 Pg. 76

Country-wise number of road crashes, and deaths, and crash severity¹³

With a crash severity of 38.15, **India ranked 1st among the top 20 countries** for road crash deaths in 2020 based on the data published by the World Road Statistics, 2022.

In terms of the total number of fatalities, India was followed by China (with a crash severity of 25.22) and the United States of America (with a crash severity of 2.01).

TOP 5 COUNTRIES IN TERMS OF ROAD CRASH FATALITIES IN 2020				
Country	Crashes ¹⁴	Crash severity	Deaths	Rank (Fatality)
India	3,45,238	38.15	1,31,714	1
China	2,44,674	25.22	61,703	2
United States	19,27,654	2.01	38,824	3
Indonesia	1,16,411	22.05	25,671	4
Russia	1,45,073	11.13	16,152	5

TOP 10 COUNTRIES IN TERMS OF ROAD CRASH FATALITIES IN 2020	
Country	Deaths
India	1,31,714
China	61,703
United States of America	38,824
Indonesia	25,671
Russia	16,152
Iran	14,652
Venezuela	12,112
South Africa	9,969
Thailand	7,324
Egypt	6,164

¹³ Source as per MoRTH "Road Accidents in India 2021" report: World Road Statistics, 2022 published by International Road Federation Geneva (data is for the year 2020)

¹⁴ RAI 2022 pg. 106 onwards

Road crash deaths vis-à-vis other trauma and accident deaths

Cause	Total Deaths	%age of Trauma Deaths
Road Crashes	1,71,100	40.5%
Other Trauma deaths	97,633	23.1%
Total Trauma Deaths	2,68,733	63.61%
Non Trauma Deaths	1,53,711	36.4%
Total Deaths (Trauma and Non-Trauma)	4,22,444	100%

Road crashes contribute to 88.04 percent of all traffic accident deaths (1,94,347).

Cause	Total Deaths	% of Traffic crash deaths
Road Crashes	171100	88.04%
Railway accidents	20792	10.70%
Railway crossing accidents	2455	1.26%
Total Traffic Accidents	194347	100%

Other Important Points¹⁵

1. About 59.7% of the deaths (1,10,107 deaths) took place in rural areas, and 40.3% of the deaths (60,993 deaths) took place in urban areas.
2. About 7.19% of the total deaths (12,296 deaths) took place near schools/ colleges/ education institutional areas.
3. In a gender-wise division, 1,45,177 (86.2%) males and 23,314 (13.8%) females lost their lives in road crashes in 2022.
4. The non-use of helmets caused 50,029 (29.7%) deaths, and the non-use of seat belts caused 16,715 (9.9%) deaths in 2022¹⁶.
5. Overloaded vehicles accounted for about 7.2% of deaths (12,181) and approximately 6.1% (28,033) of the total crashes.
6. 67,387 (14.6%) cases were registered as Hit-and-Run cases, which caused 30,486 fatalities (18.1%) and 54,726 injuries (12.3%).¹⁷
7. Driving without a valid license/with a learner's license accounted for 18,298 (4%) of the total crashes.¹⁸
8. 1,856 road crash fatalities were caused due to potholes in 2022, a 25.3% increase from 2021 (1,481).¹⁹
9. Vehicles older than 10 years were involved in 25.2% of road crash fatalities in 2022²⁰.
10. The share of the number of persons killed in urban and rural areas was 32.2% (54,230) and 67.8% (1,14,261), respectively.²¹

¹⁵ Note: Data for 2020 has not been used due to National Lockdown as the pandemic caused a significant decline in the number of vehicles on the roads.

¹⁶ RAI 2022 pg. No. 48

¹⁷ RAI 2022 pg. 10

¹⁸ RAI 2022 pg. 47

¹⁹ RAI 2022 pg. 51

²⁰ RAI 2022 pg. 55

²¹ RAI 2022 pg 100