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# Road traffic sub-division-wise accidents in Mysore city

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## Abstract

*This research paper mainly focuses the road traffic Sub-division-wise accidents in Mysore City in the year of 2013. the methodology used in this study with the help of detailed accident data of 2013 collected from Krishnaraja, Devaraja, and Narasimaraja Traffic Police Stations. There are 902 total accidents that occurred in the year 2013, there are 141 deaths and many of them injured. For plotting the exact location of accident spots mainly used Global Positioning System (GPS) points of each accident. Arc GIS 10.3 software technology used for maps and analysis of three main sub-division-wise accidents spots in Mysore city. The result shows that compared to KR Sub Division and Devaraja Sub Division, the NR Sub Division is the highest number of (446) road traffic accident occurred in the year of 2013.*

**Keywords:** Sub-division-wise; road traffic accident; global positioning system; GIS

## Introduction

The state-wise comparison of accidents Maharashtra has reported extreme (62,770) accidental deaths out of 4,00,517 such deaths in the country during the year of 2013 and it accounted for nearly one-sixth (15.7%) of total accidental deaths reported in the country. Uttar Pradesh, the most crowded state in the country with a populace share of 16.9%, on the other hand, has accounted for 8.2% of accidental deaths in the country. The other states having a larger percentage share in total accidental deaths were Madhya Pradesh (9.4%), Tamil Nadu (8.3%), and Andhra Pradesh (7.8%). However, Gujarat (6.6%), Rajasthan (6.2%), Karnataka (5.6%), and West Bengal (5.5%) have also reported important shares of deaths due to accidents during 2013. same as it is in this paper also trying to the comparison of three subdivision wise i.e.

Krishnarajasagar sub-division, Narasimaraja sub-division, and Devaraja subdivision analysis of Road Traffic Accidents in Mysore city in the year of 2013

## Study Area

Mysore city is the most tourism magnetism palace city and the second-largest city in the state of Karnataka. Mysore has located 135 km from Bangalore, the state capital. It is the headquarters of the Mysore district and the Mysore division and lies about 146 km (91 mi) southwest of Bangalore, the capital of the state. The city is spread across an area of 128.42 sq. km (50 sq mi) and is situated at the base of the Chamundi Hills. Mysore city is located at 76°39'E and 76°42'E longitude and 12°18'N and 12°30'N latitude and has an average altitude of 770 meters (2,526 ft). It is located in the southern region of

the state of Karnataka. Mysore city has 65 wards and the total population is 8,85,416 (census of India, 2011). The existing two-lane road linking Mysore to the state capital Bangalore has been upgraded to a four-lane highway. National Highway 212, and State Highways 17, 33, 88 passes through Mysore connecting it to nearby cities.

## Objective

Identification of road traffic sub-division-wise accidents in Mysore city 2013.

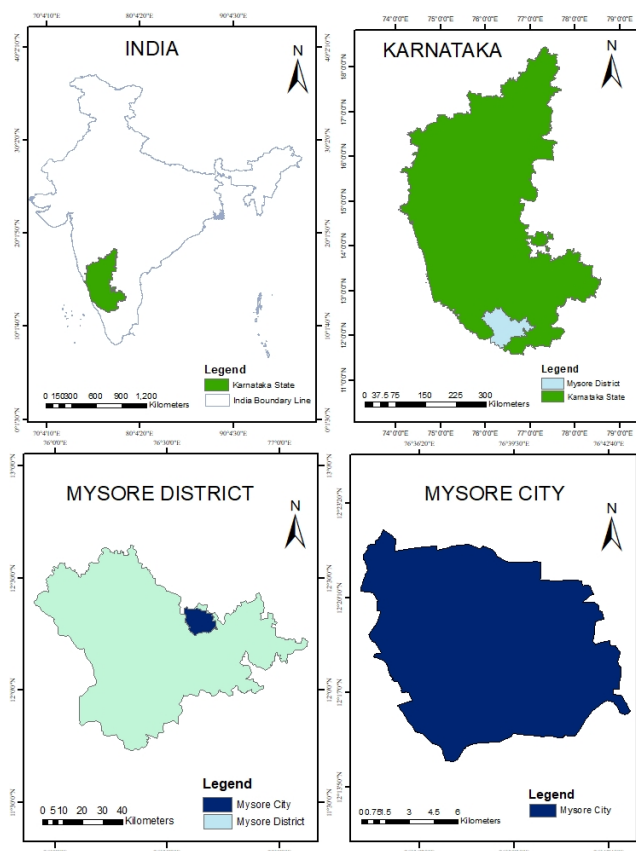


Fig. 1. Study area map of Mysore city

## Result and Discussion

Map 2 illustrates Accident spots in Mysore city in 2013. The Mysore City has three Traffic Sub-divisions namely N.R. Sub-Division (including V.V. Mohalla Traffic Police Station), K.R Sub-Division (including Kuvempunagar Traffic Police Station), and Devaraja Sub-Division (including Lashkar Traffic Police Station).

The sub-division-wise accidents have been presented in Map 3. The Mysore city traffic police limits area having 149 sq. Kilo meter. This three Sub-Division divided in different Numbers of Square Kilometers i.e. NR Sub Division 57 Sq.

Km, KR Sub Division 59 Sq. Km, and Devaraja Sub Division having 33 Sq. Km in Mysore city.

In this accident data, we can observe many of the vehicles i.e. two-wheeler, three-wheeler, four-wheeler, and six-wheeler have been involved. The major accidents occurred in National Highway 212, State Highways of 17, 33, 88, and Ring road in Mysore city.

Table 1. Details of sub-division-wise accidents in Mysore city in the year 2013

Divisions	Number of accidents	Area in Sq. Km
NR Sub Division	446	57
KR Sub Division	273	59
Devaraja Sub Division	183	33
Total	902	149

Source: Traffic police stations

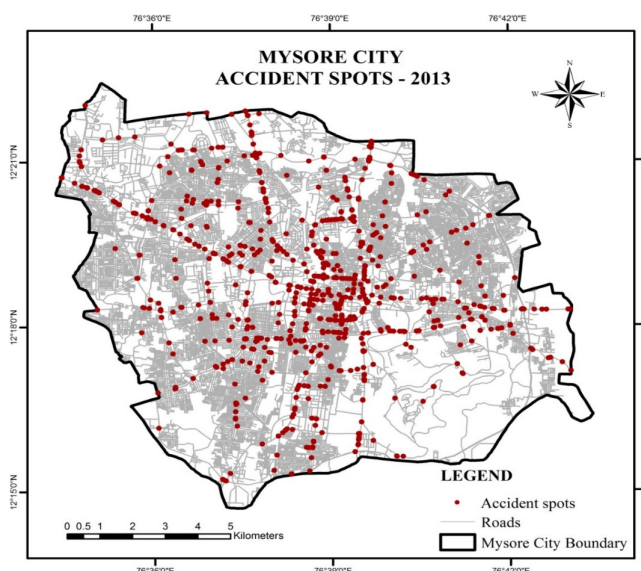


Fig. 2. Accident spots in Mysore city in the year 2013.

The N.R. Sub-Division has the highest number of accidents in the year 2013 as compared to other Sub-Divisions as it has several junctions in the major roads with a higher density of vehicles. There are 446 accidents occurred in the N.R. Sub-division, 273 accidents in the K.R. Sub-division, and 183 accidents in Devaraja sub-division in the year 2013.

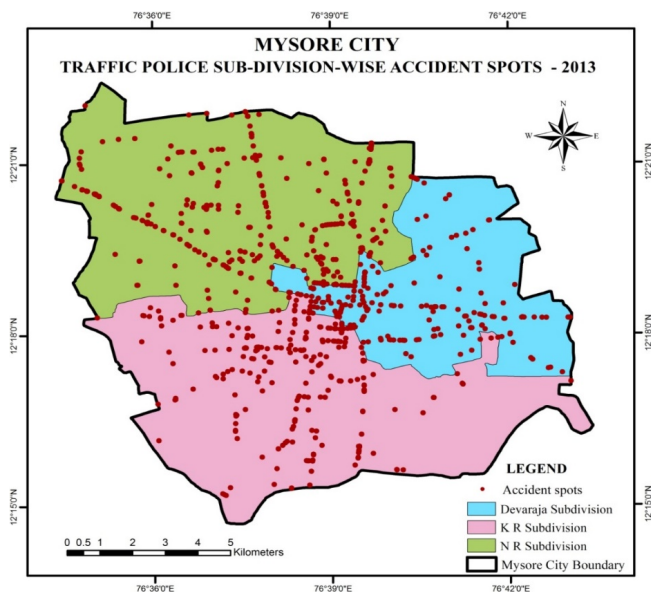


Fig. 3. Sub-division wise accidents in Mysore city in the year 2013

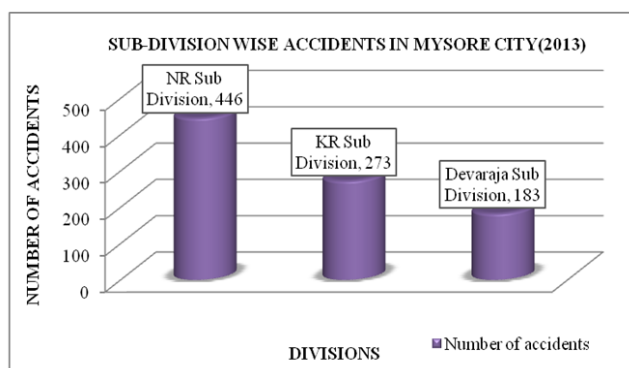


Fig. 4. Number of accidents of sub divisions in Mysore city (2013)

## Conclusion

To sum up, the Mysore city traffic police limits area having 149 sq. Kilo meter got 902 road traffic accidents in three sub-division of N.R. Sub-Division, K.R. Sub-division, Devaraja sub-division. In the daytime due to the overcrowding pop-

ulation for commercial and business purposes in the core of the city got a huge accident occurred. The main reasons for this accident are breaking the traffic rules, without helmet traveling, crossing the traffic signals, etc. N.R. Sub-Division got more accident considering that passing National High 212, Hunsur to Mysore and State Highway 17, Bangalore to Mysore, then the main industrial area ring road. To maintain the more traffic road accidents in Mysore city need to make five more sub-divisions and adopt new sub-ways and traffic light signals in more traffic circle or junction, then only we can see the fewer road accidents in palace city of Mysore.

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