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ANALYSIS OF THE DRIVER'S POSITION IN THE TRAFFIC SYSTEM AND THE INFLUENCE ON THE LEVEL OF TRAFFIC SAFETY

Tursunov D. M.
Assistant, Department of Land Transport Systems and their Exploitation,
Fergana Polytechnic Institute, Fergana, Uzbekistan

Abstract
Improvement of the mechanism of driver training and assessment of its impact on ensuring traffic safety and implementation of modern methods of driver training.

Keyword: Road, pedestrian, safety, transport, incident, speed.

Introduction

In ensuring traffic safety, a person participates as the main participant of traffic: driver, passenger, pedestrian and traffic organizer. Among them, the driver occupies a special place, so it is necessary to take into account his psychological, physiological and biological capabilities when organizing the movement [1,2,3]. During movement, the driver is affected by various unpleasant factors: exhaust gases entering the car cabin, traffic noise, vibration, cold winter and hot summer air, rain, snow, fog, bad road conditions, various defects of the car, pedestrians irregular movement, etc.

The driver receives the main information by observing the road conditions, and the information is of secondary importance for it [4,5,6]. The description and volume of information is changing very quickly, and it always requires the driver to regularly monitor the traffic conditions on the road. The driver's work is very complex, he cannot actively influence the conditions of the road, car, pedestrians and the environment during the movement, and he cannot determine their changes in advance. must ensure safe movement without endangering life and keeping the vehicle and its cargo in full [7,8,9].

It should be noted that drivers do not always make the right decision. This situation is often caused by:

- the information was not received on time, as a result of which the driver could not correctly assess the traffic conditions and the possibility of preventing the accident was insufficient;
- misunderstanding of the primary information, for example, the driver taking the signal for turning as a brake signal;
- incorrect analysis of traffic conditions, for example, a driver approaching an intersection expected the traffic light to turn green after the yellow signal, but the signal turned red;
- making a wrong decision, for example, the only correct way to prevent an accident is when the driver decides to brake quickly instead of changing the direction;

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— wrong behavior, for example, the driver suddenly presses the gas pedal instead of the brake pedal, thereby suddenly increasing the speed of movement.

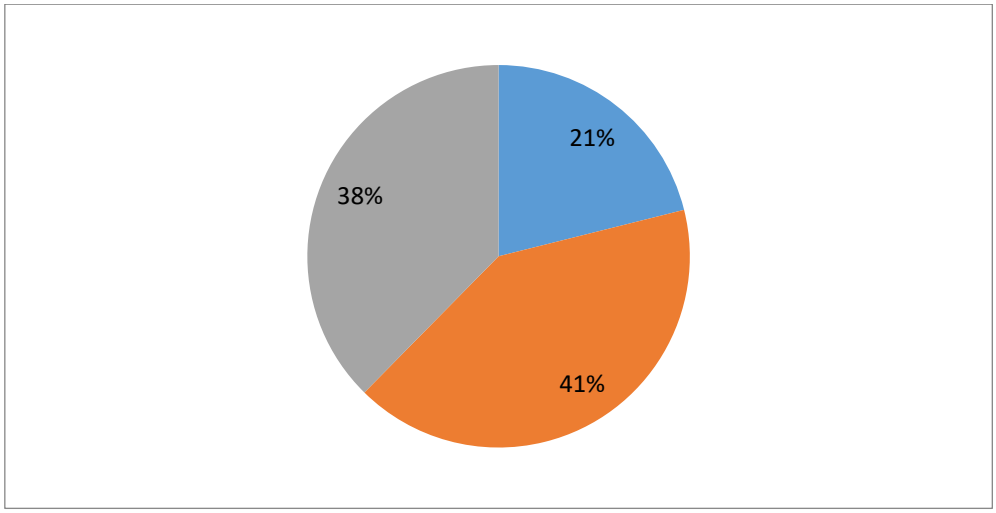

Fig. 1. Cyclogram of traffic accidents committed on roads of different categories in the Republic in 2022-2023

In 2022-2023, when the road traffic accidents occurred on the roads of different categories in the Republic were analyzed, the largest number of road traffic accidents occurred on the roads of State importance [9,10]. In terms of regions, the largest number of accidents occurred in Fergana, Andijan and Tashkent regions. The number of traffic accidents committed on roads of different categories in the Republic in 2022-2023

Analysis of the driver's participation in traffic accidents

Further motorization of the country places great demands on road safety. The death and injury of a large number of people in traffic accidents, the serious material damage caused to the national economy and individuals, cause the problem of road safety to become one of the most urgent issues and demand an urgent solution [11-17].

By comparing statistical data with different periods, it is possible to objectively assess the effectiveness of measures to reduce the number of accidents that occurred in the Territory.

The most important tasks of analyzing data on the status of accidents and the importance of other indicators describing road safety have been identified by scientists as follows.

1. Justification of measures in all directions of traffic safety activities (improvement of road conditions and structures of vehicles, prevention of injuries of children in traffic accidents, training of drivers, etc.), as well as measures evaluating the effectiveness and determining the sequence of their implementation

2. Predicting the state of accidents. This direction is one of the rapidly developed methods of improving the analysis of statistical data. Many different models have been developed to predict the occurrence of accidents.

3. Development of multidimensional data processing methods for comparison of accidents and traffic safety. Studying the interdependence of various indicators and comparing them according to the level of this interdependence is a comparatively studied direction of analytical activity. At the same time, the results obtained in other fields of knowledge show that the correlation of indicators has a significant impact on the final conclusions of the analysis.
4. Analysis of causes and circumstances, a single accident, often called an investigation accident.
5. Analysis of limited groups of traffic incidents. Special attention is paid to solving this problem in foreign countries where great results have been achieved.
6. Creation of universal software systems for computers to enter, manage, store, search and provide information in a user-friendly form.

To solve these problems, a system of registration and analysis of data on accidents was created, which provides processing of the entire volume of data on accidents. The creation of this system is aimed at increasing the accuracy, completeness and efficiency of recording information on accidents at the industrial level, at the appropriate assessment of the situation of accidents in some regions of the republic, and at determining the main directions of actions. improvement of road safety by motor transport departments and their motor transport enterprises. Strengthening work on prevention of accidents [18].

In ensuring traffic safety, a person participates as the main participant of traffic: driver, passenger, pedestrian and traffic organizer. Among them, the driver occupies a special place, so it is necessary to take into account his psychological, physiological and biological capabilities when organizing the movement. During movement, the driver is affected by various unpleasant factors: exhaust gases entering the car cabin, traffic noise, vibration, cold winter and hot summer air, rain, snow, fog, bad road conditions, various defects of the car, pedestrians' irregular movement, etc.

Large-scale research is being conducted around the world to prevent road accidents, reduce their severity and economic losses. The purpose of research on accidents is primarily focused on saving people's lives.

Summary

In this article, the improvement of the mechanism of driver training and the assessment of its impact on ensuring traffic safety, as well as the application of modern methods of driver training.

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