

Analysis of traffic accidents involving elementary school students in Matsuyama (2021-2023)

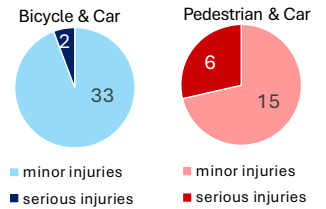
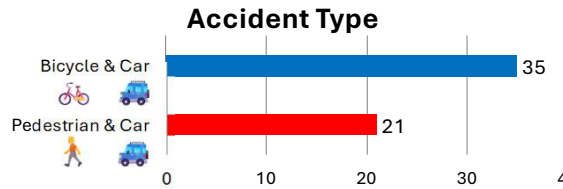
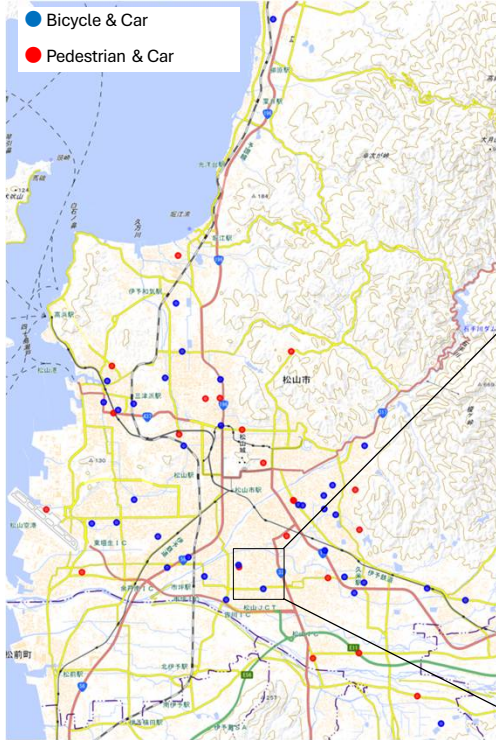
Motivation for research

At my elementary school, there is a traffic safety class for the third graders. In the class, I was curious about the types of the traffic accidents that had happened to the elementary school students in my town, Matsuyama, so I decided to find out more information about them.

Research method

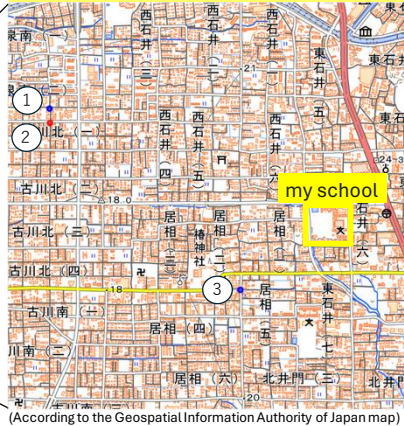
- Collect data about the traffic accidents involving the elementary school students in Matsuyama from the Ehime Prefectural Police Website.
- Go to the places around my school where traffic accidents involving the elementary school students happened and see the characteristics of the traffic accident scenes.

What types of traffic accidents happened to the elementary school students in Matsuyama?



- There are more traffic accidents involving bicycles and cars than those involving pedestrians and cars.
- More people get seriously injured in bicycle and car accidents than in pedestrian and car accidents.

Traffic accidents around my school

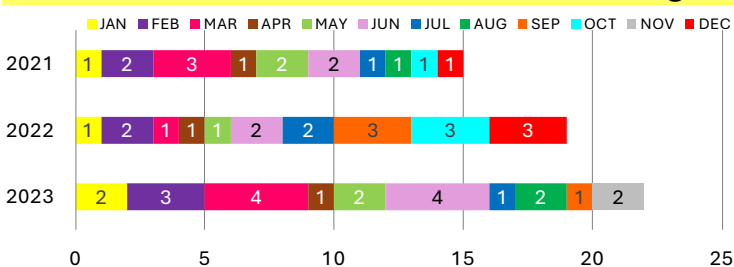


Characteristics of the traffic accident scenes

number	road shape	lane	crosswalk	traffic light	road visibility
①	T-junction	1 lane and 1 lane	no	no	poor
②	intersection	1 lane and 1 lane	no	no	poor
③	intersection	1 lane and 1 lane	no	no	poor

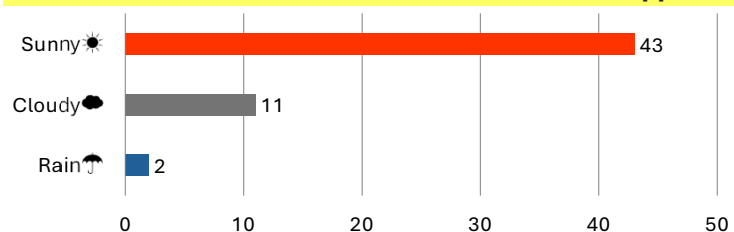
- When I went to see the places around my school where traffic accidents had happened and looked into them, I found that the accidents had happened in the places where there are no crosswalk and no traffic light, and the road visibility is poor.

How has the number of traffic accidents changed?



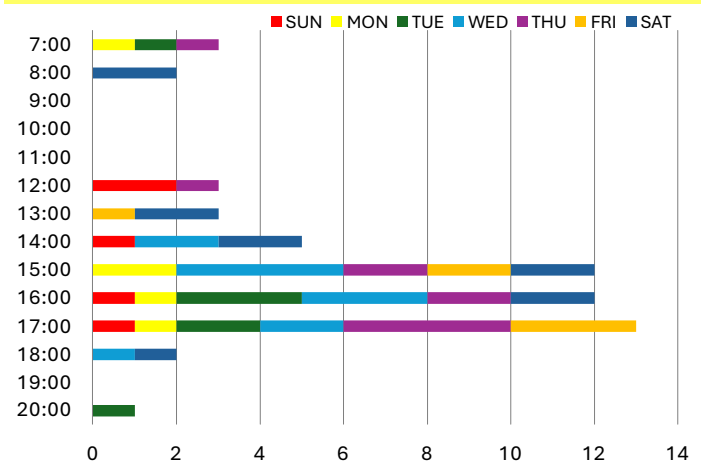
- From 2021 to 2023, the number of the traffic accidents involving the elementary school students went up every year.
- In the past three years from 2021 to 2023, March and June had the most accidents in total, with 8 each.

What was the weather like when traffic accidents happened?



- I thought there were more traffic accidents on cloudy or rainy days, but actually, more traffic accidents happened on sunny days.
- I think the number of accidents goes up on sunny days because it's easier to go out on sunny days than on rainy days.

What time of day did traffic accidents happen?



- When looking at the days of the week, Wednesdays had the most accidents, with 12, and Saturdays had 11 in the past three years.
- When looking at the time of day, traffic accidents often happened between 15:00 and 18:00 on weekdays.
- I think the elementary school students may have been involved in an accident on their way home from school, or on their way from home to their friend's house.

Quotation

Ehime Prefectural Police Website
(<https://www.police.pref.ehime.jp/section/koutsuubu.html>)
(Confirmed on 2025.1.15)

Impressions after completing the survey

- We could understand the characteristics of the traffic accidents better by showing the details in graphs, tables, and maps.
- Next, I want to research whether the elementary school students wore their helmets or not when they had bicycle accidents.
- I will keep following traffic rules to avoid accidents.