

Insights

1. Total Casualties Overview:

- **Total casualties:** 417,883.
- Fatal casualties are relatively low at 1.71% (7,135), while slight casualties dominate at 84.10% (351,436).

2. Casualties by Vehicle Type:

- The majority of casualties involve cars (333,485).
- Motorcycles (33,672) and light goods vehicles (33,472) account for fewer casualties but are still significant.
- Buses (12,798) and cycles (4,456) contribute a smaller portion.

3. Casualties by Road Type:

- **Single carriageways** have the highest number of casualties (309.70K), followed by dual carriageways (67.37K).
- Roundabouts and one-way streets see fewer casualties, likely due to lower traffic speeds.

4. Casualties by Light Condition:

- A majority of accidents occur in **daylight** (304.96K) compared to **darkness** (112.92K).

5. Casualties by Weather Condition:

- Most accidents occur in fine weather without high winds (330,311).
- Adverse weather conditions (e.g., rain or other) account for a smaller proportion.

6. Casualties by Location:

- **Urban areas** experience 61% (255.86K) of casualties, compared to 39% (162.02K) in rural areas.

7. Casualties by Road Surface:

- The majority occur on dry roads (279K).
- Wet or damp roads contribute to a significant portion (75.1K).

8. Monthly Trends:

- Casualties follow a consistent trend across 2021 and 2022, with peaks during mid-year (likely due to higher road usage in warmer months).

Recommendations

1. Road Safety Campaigns:

- Target campaigns in **urban areas** where most accidents occur.
- Emphasize pedestrian and cyclist safety to reduce casualties in these groups.

2. Infrastructure Improvements:

- Improve safety on **single carriageways**, such as adding barriers, better lighting, and signage.
- Consider traffic-calming measures in high-risk areas.

3. Driver Awareness Programs:

- Focus on **daylight driving risks**, even though conditions may seem safer.
- Educate drivers on adapting to weather conditions like rain or frost to minimize risks.

4. Seasonal Adjustments:

- Introduce additional road safety measures during mid-year when casualties peak, like stricter speed enforcement or awareness campaigns.

5. Road Maintenance:

- Ensure **wet or damp roads** are regularly maintained, and drainage systems are efficient to reduce skidding hazards.

6. Technology Adoption:

- Encourage vehicle technologies like anti-lock braking systems (ABS) and collision detection systems to minimize accidents, particularly for motorcyclists and cyclists.

7. Policy Changes:

- Consider implementing stricter speed limits on **single and dual carriageways**, where the majority of casualties occur.