Car weight data by weight category, and average weight of all cars (2014-2023) registration data source: DfT df_VEH0124, car weight data source: UKVD (3rd party)

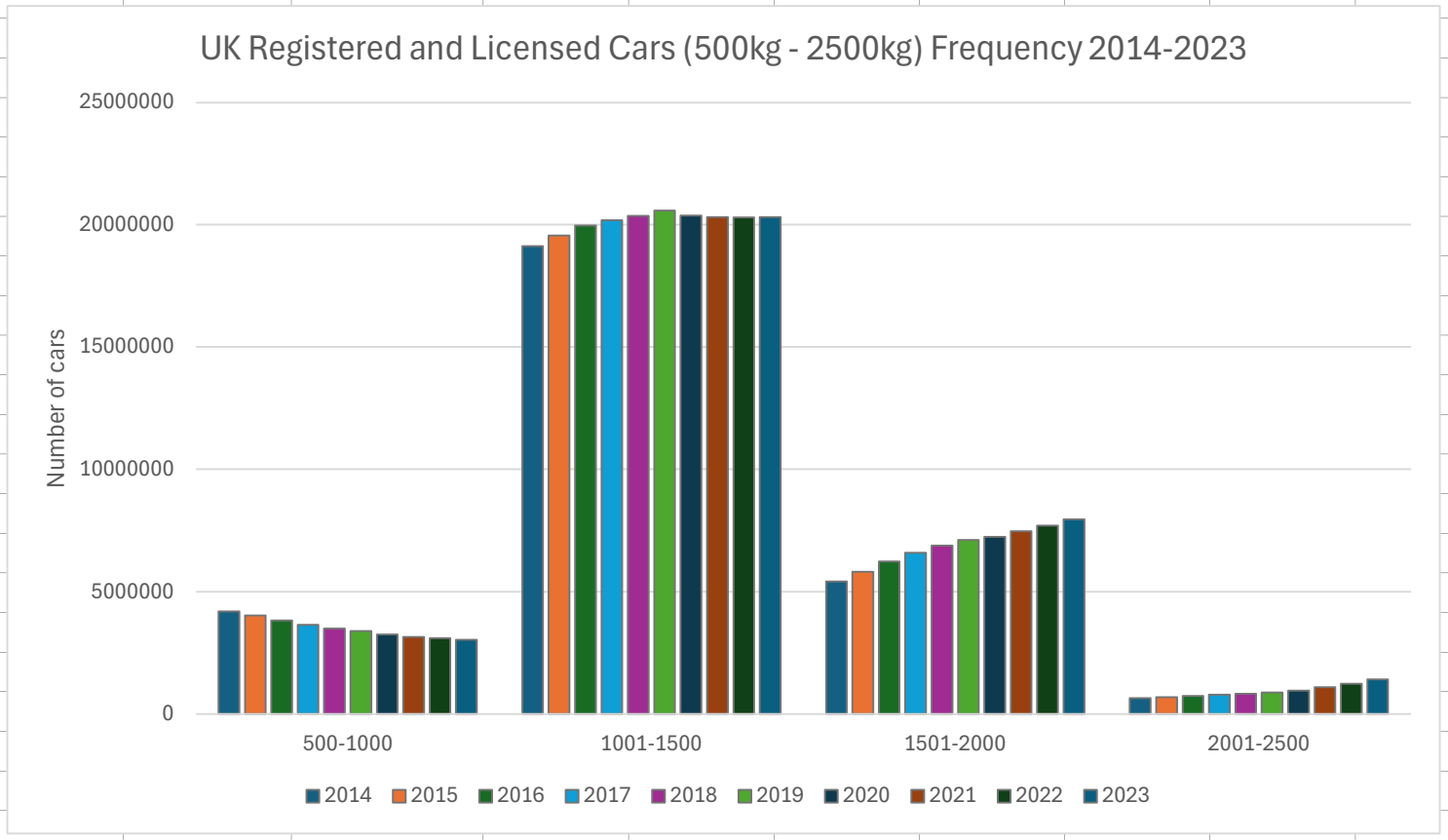
| UKVD Data Kerb Weight KG | UK Registered and Licensed Cars by Weight Category Frequency | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Weight Category** | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
| 500-1000 | 4190822 | 4022610 | 3825021 | 3645027 | 3491934 | 3393404 | 3242488 | 3148912 | 3088143 | 3033870 |
| 1001-1500 | 19118751 | 19560345 | 19970208 | 20174827 | 20363589 | 20580633 | 20375086 | 20311211 | 20295982 | 20313748 |
| 1501-2000 | 5412507 | 5812321 | 6230309 | 6590631 | 6877238 | 7115022 | 7244015 | 7467683 | 7700343 | 7953956 |
| 2001-2500 | 646705 | 690153 | 735484 | 782037 | 824753 | 880360 | 956420 | 1089899 | 1237657 | 1415617 |
| **Total Cars** | 29368785 | 30085429 | 30761022 | 31192522 | 31557514 | 31969419 | 31818009 | 32017705 | 32322125 | 32717191 |

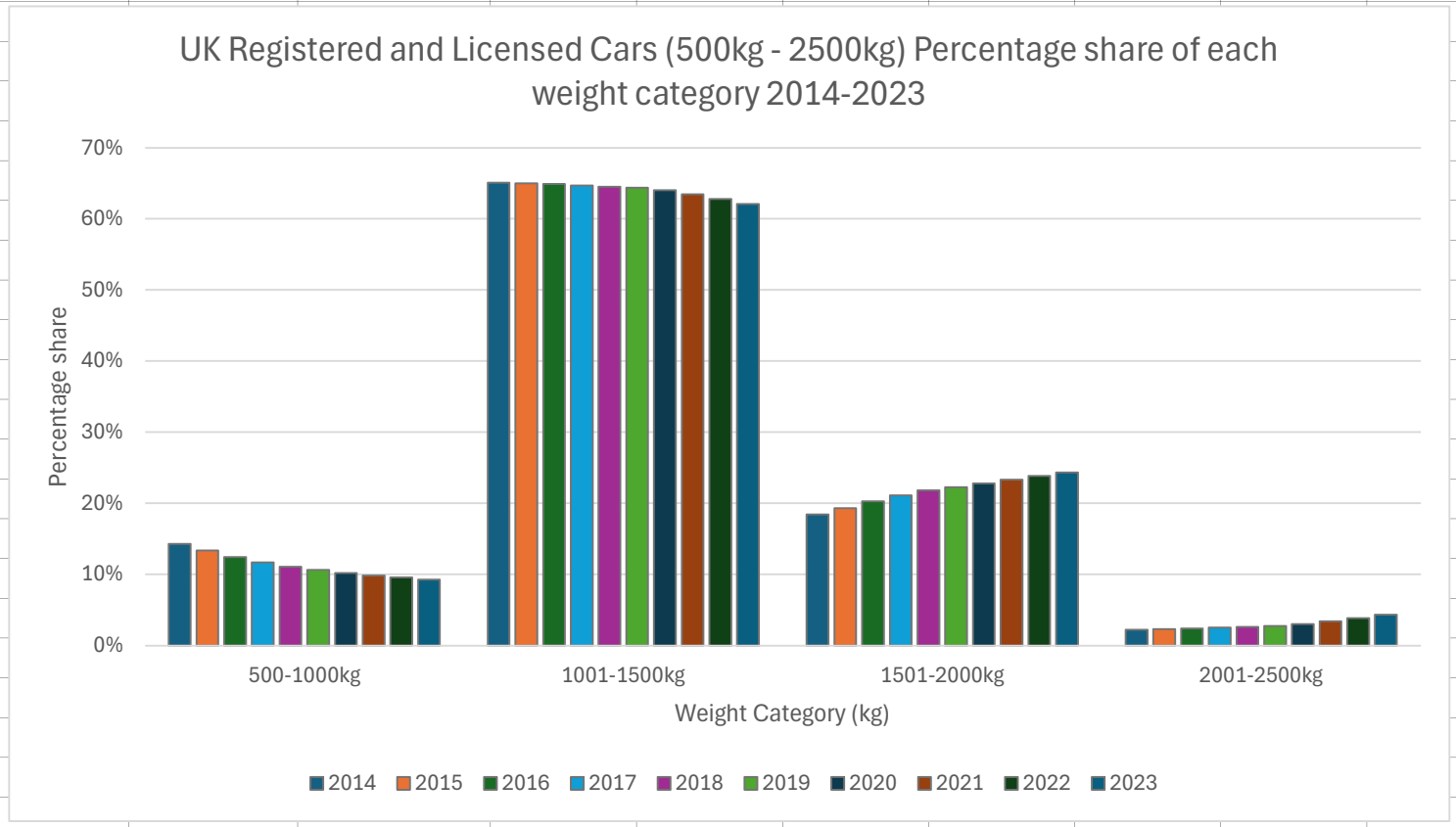
| UKVD Data Kerb Weight KG | UK Registered and Licensed Cars by Weight Category Percentage | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Weight Category** | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
| 500-1000kg | 14.27% | 13.37% | 12.43% | 11.69% | 11.07% | 10.61% | 10.19% | 9.83% | 9.55% | 9.27% |
| 1001-1500kg | 65.10% | 65.02% | 64.92% | 64.68% | 64.53% | 64.38% | 64.04% | 63.44% | 62.79% | 62.09% |
| 1501-2000kg | 18.43% | 19.32% | 20.25% | 21.13% | 21.79% | 22.26% | 22.77% | 23.32% | 23.82% | 24.31% |
| 2001-2500kg | 2.20% | 2.29% | 2.39% | 2.51% | 2.61% | 2.75% | 3.01% | 3.40% | 3.83% | 4.33% |
| **Total Cars** | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |

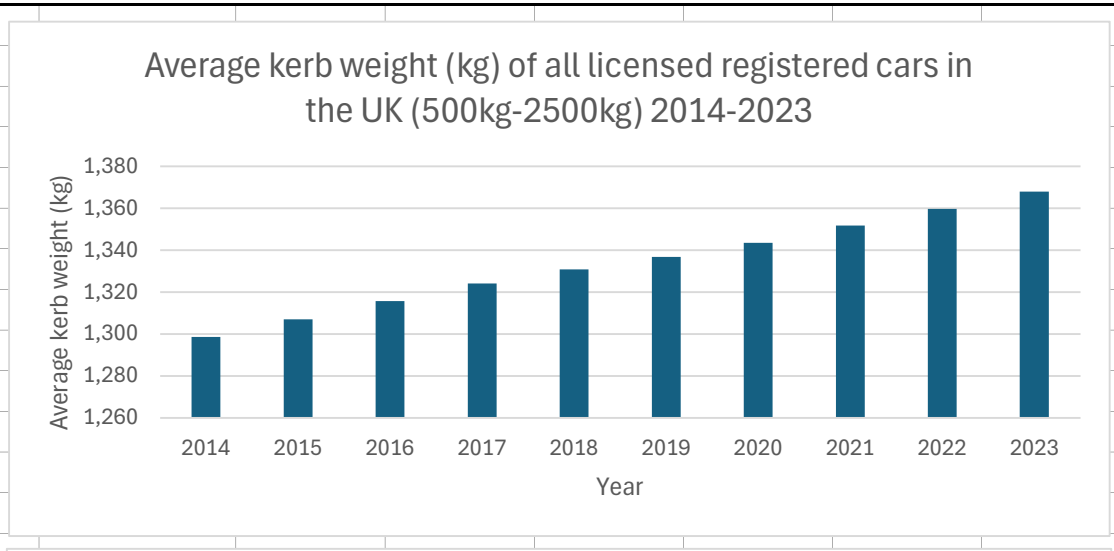
| UKVD Data Kerb Weight KG | UK Registered and Licensed Cars (between 500-2500kg) Frequency | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Year registered** | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
| **Sum of registered cars** | 29368785 | 30085429 | 30761022 | 31192522 | 31557514 | 31969419 | 31818009 | 32017705 | 32322125 | 32717191 |
| **Weight of all registered cars (kg)** | 38137752889 | 39319366792 | 40470827452 | 41298284865 | 41994250424 | 42735082182 | 42747704071 | 43279986208 | 43944307632 | 44753607848 |
| **Average weight of registered cars (kg)** | 1298.58 | 1306.92 | 1315.65 | 1323.98 | 1330.72 | 1336.75 | 1343.51 | 1351.75 | 1359.57 | 1367.89 |
| **Average weight of registered cars in 2014 (kg)** | 1298.58 | 1298.58 | 1298.58 | 1298.58 | 1298.58 | 1298.58 | 1298.58 | 1298.58 | 1298.58 | 1298.58 |
| **Increase of average weight compared to 2014 average weight (kg)** | 0.00 | 8.34 | 17.07 | 25.40 | 32.14 | 38.17 | 44.93 | 53.17 | 60.99 | 69.31 |

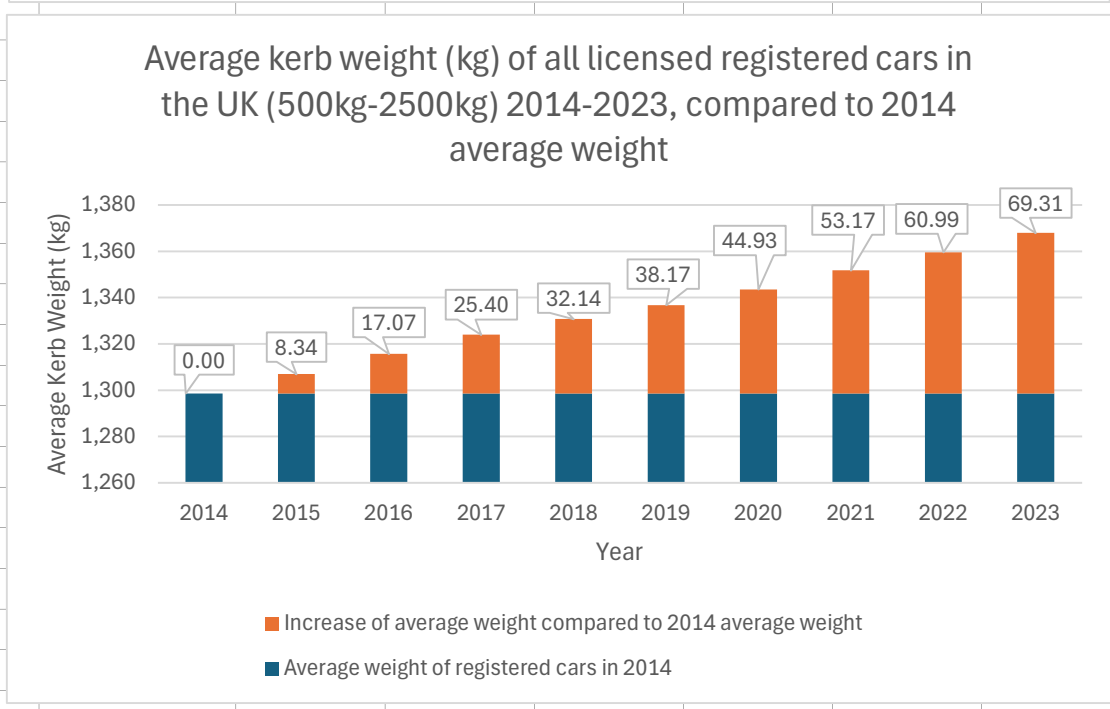
How many cars registered do not have a UKVD Kerb Weight that fit into our categories? i.e. how many kerb weight = 'NULL' or '-2', blanks or not within our ranges?

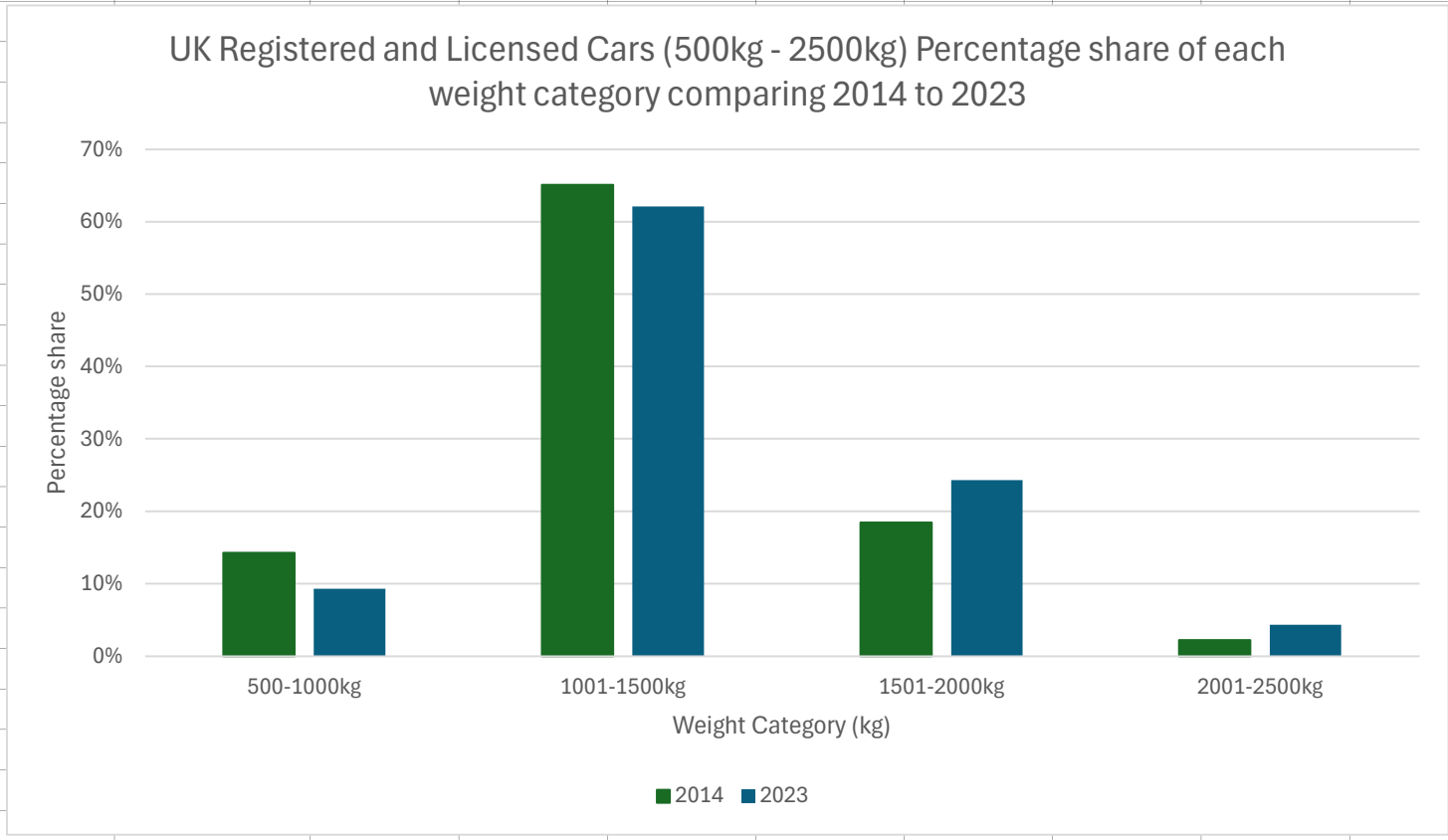
| | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Percentage of missing weight data (all cars)** | 550720 | 509434 | 473357 | 436471 | 423063 | 414257 | 395875 | 389728 | 382802 | 374247 |
| | 1.84% | 1.67% | 1.52% | 1.38% | 1.32% | 1.28% | 1.23% | 1.20% | 1.17% | 1.13% |




UK Registered and Licensed Cars (500kg - 2500kg) Percentage share of each weight category 2014-2023
70%
60%
50%
40%
30%
20%
10%
0%
Percentage share
500-1000kg
1001-1500kg
1501-2000kg
2001-2500kg
Weight Category (kg)
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023


Average kerb weight (kg) of all licensed registered cars in the UK (500kg-2500kg) 2014-2023
Average kerb weight (kg)
1,380
1,360
1,340
1,320
1,300
1,280
1,260
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
Year

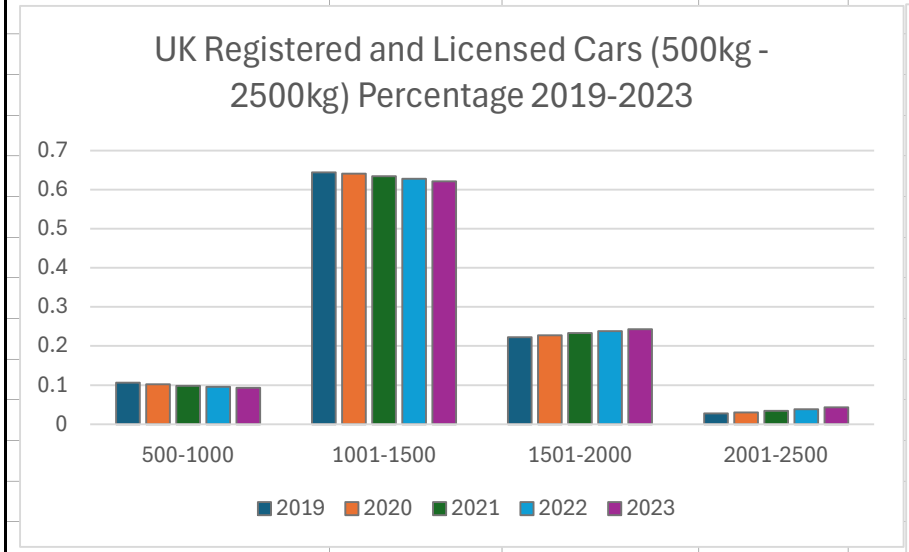

Average kerb weight (kg) of all licensed registered cars in the UK (500kg-2500kg) 2014-2023, compared to 2014 average weight
Average Kerb Weight (kg)
1,380
1,360
1,340
1,320
1,300
1,280
1,260
0.00
8.34
17.07
25.40
32.14
38.17
44.93
53.17
60.99
69.31
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
Year
Increase of average weight compared to 2014 average weight
Average weight of registered cars in 2014

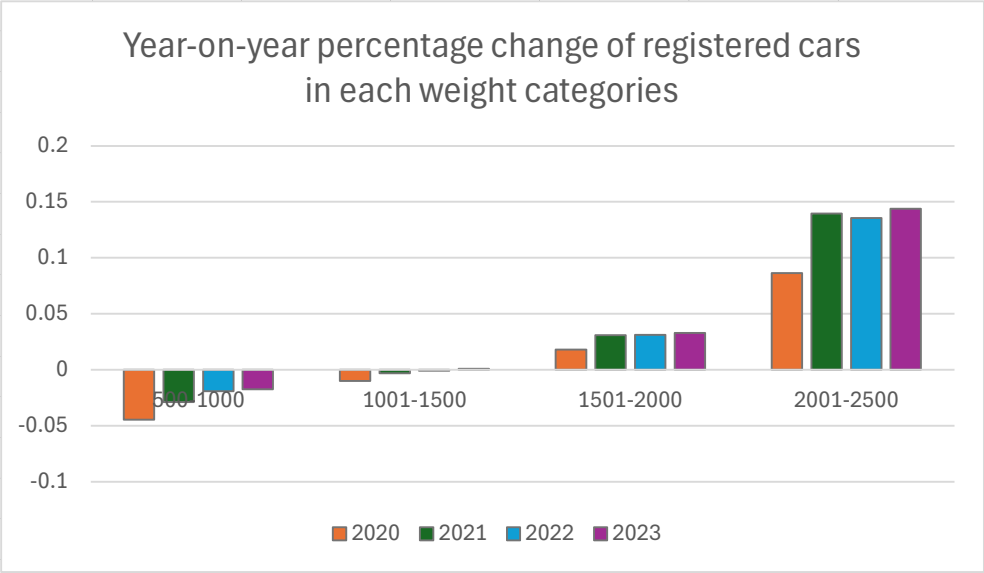

UK Registered and Licensed Cars (500kg - 2500kg) Percentage share of each weight category comparing 2014 to 2023
70%
60%
50%
40%
30%
20%
10%
0%
Percentage share
500-1000kg
1001-1500kg
1501-2000kg
2001-2500kg
Weight Category (kg)
2014
2023

2019-2023 percentage change of registered cars in weight categories

| UKVD Data Kerb Weight KG | UK Registered and Licensed Cars (all cars) Percentage | | | | | 5 years |
|---|---|---|---|---|---|---|
| **Weight Category** | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
| 500-1000 | 10.61% | 10.19% | 9.83% | 9.55% | 9.27% | 9.89% |
| 1001-1500 | 64.38% | 64.04% | 63.44% | 62.79% | 62.09% | 63.34% |
| 1501-2000 | 22.26% | 22.77% | 23.32% | 23.82% | 24.31% | 23.30% |
| 2001-2500 | 2.75% | 3.01% | 3.40% | 3.83% | 4.33% | 3.47% |
| **Total Cars** | 100% | 100% | 100% | 100.00% | 100.00% | 100.00% |

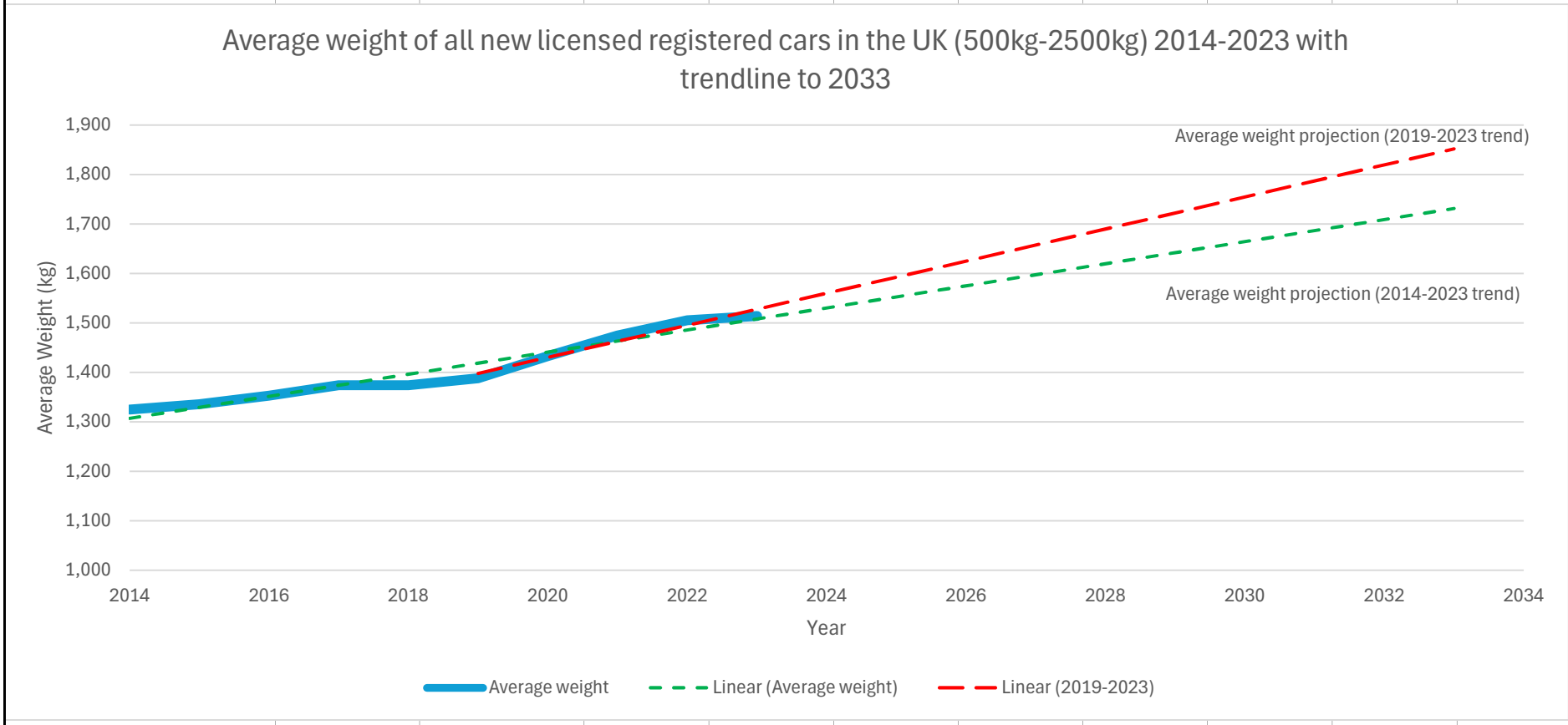
| UKVD Data Kerb Weight KG | UK Registered and Licensed Cars (All) Percentage Change | | | | |
|---|---|---|---|---|---|
| **Weight Category** | 2019 | 2020 | 2021 | 2022 | 2023 |
| 500-1000 | | -4.45% | -2.89% | -1.93% | -1.76% |
| 1001-1500 | | -1.00% | -0.31% | -0.07% | 0.09% |
| 1501-2000 | | 1.81% | 3.09% | 3.12% | 3.29% |
| 2001-2500 | | 8.64% | 13.96% | 13.56% | 14.38% |

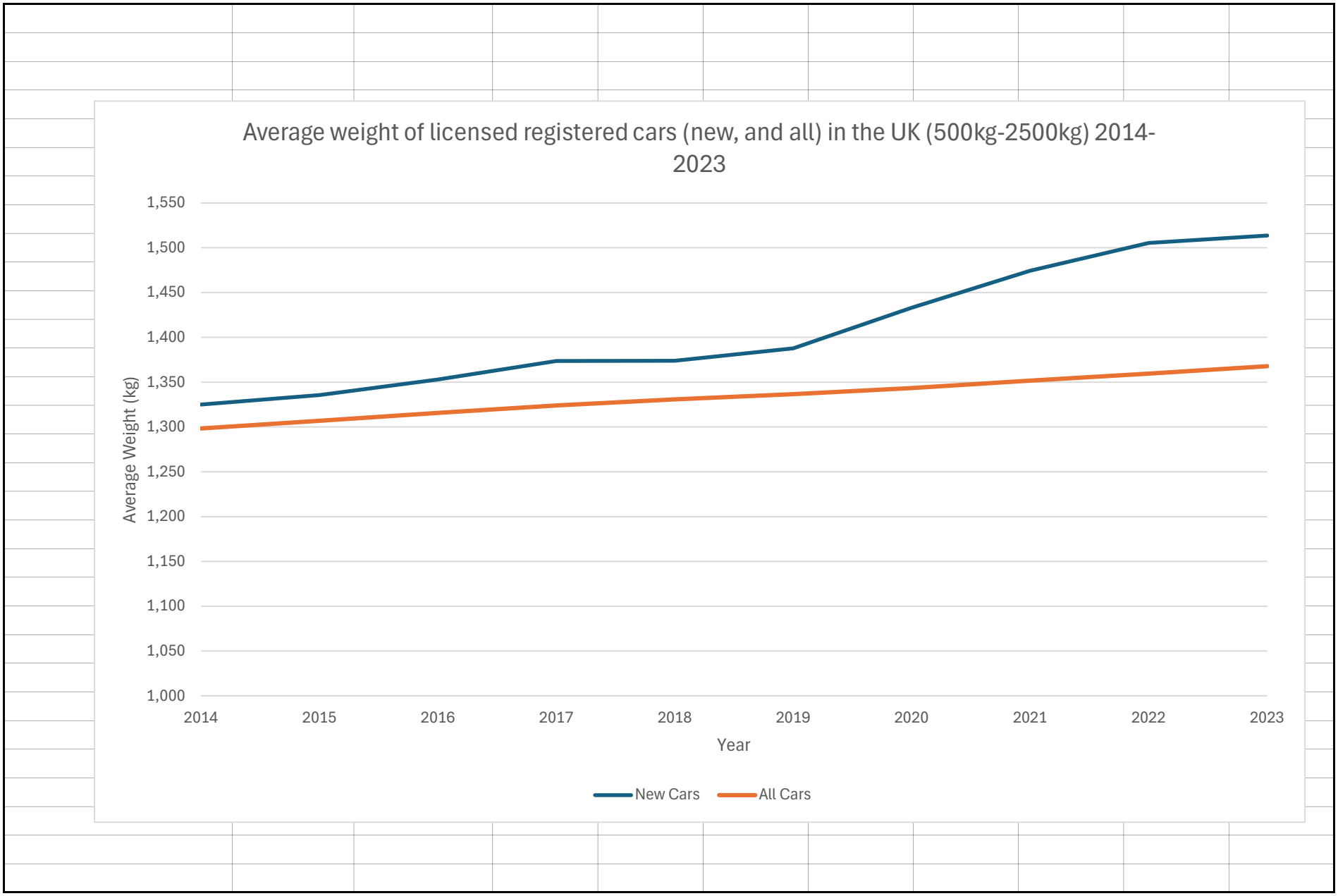


**New** car weight by average weight of all new cars (2023-2014) registration data source: DfT df_VEH0124, car weight data source: UKVD (3rd party)

| UKVD Data Kerb Weight KG | UK NEW Registered and Licensed Cars (between 500-2500kg) (AM and NZ combined) Frequency | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Cars manufactured and registered in this year (new cars)** | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 |
| **Total number** | 1831745 | 1571055 | 1602270 | 1564001 | 2192135 | 2245797 | 2380683 | 2553183 | 2499354 | 2365939 |
| **Total weight** | 2772927974 | 2364738814 | 2362281972 | 2241167413 | 3042255288 | 3085381709 | 3270358122 | 3454287468 | 3337887470 | 3135188506 |
| **Average weight** | **1513.82** | **1505.19** | **1474.33** | **1432.97** | **1387.80** | **1373.85** | **1373.71** | **1352.93** | **1335.50** | **1325.13** |




Average weight of licensed registered cars (new, and all) in the UK (500kg-2500kg) 2014-2023
1,550
1,500
1,450
1,400
1,350
1,300
1,250
1,200
1,150
1,100
1,050
1,000
Average Weight (kg)
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
Year
New Cars
All Cars

| Total Number of Collisions (regardless type of severity) | 356,908 |
|---|---|

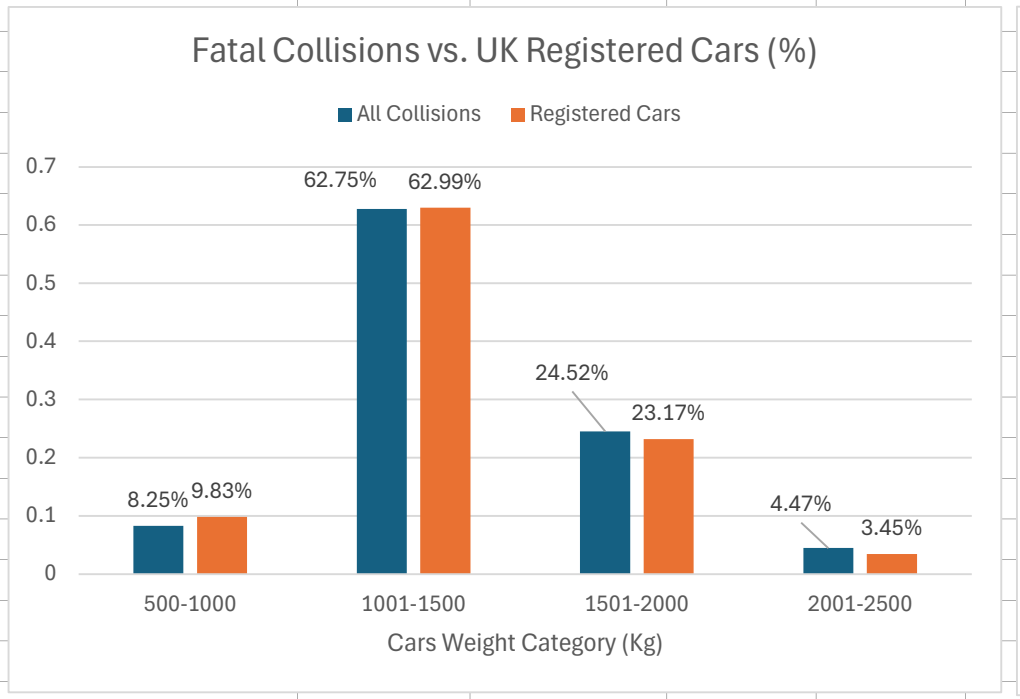
All (cars, bikes, pedestrians)

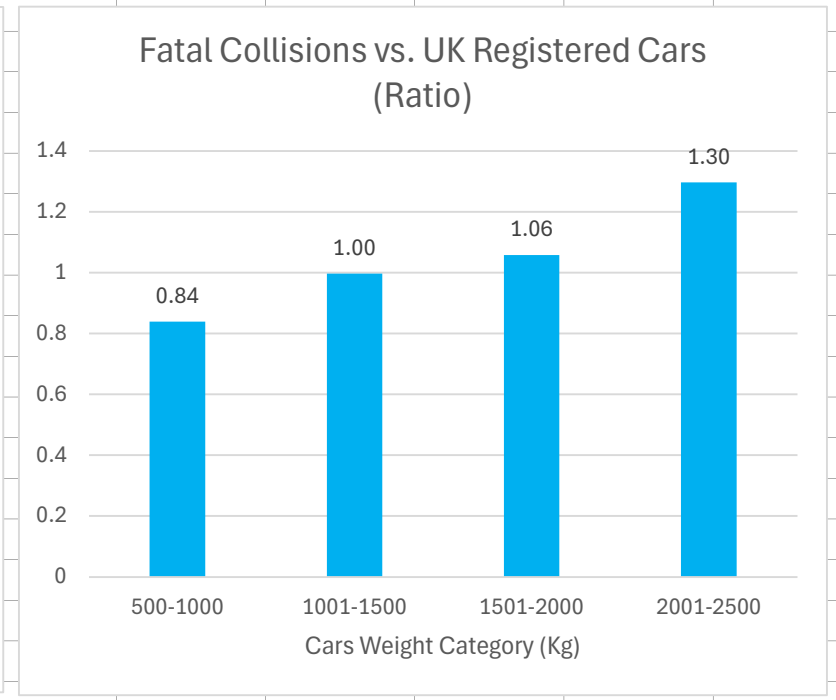
| | Frequency of Fatality collisions | | | | | 5 years |
|---|---|---|---|---|---|---|
| **Weight Category** | **2019** | **2020** | **2021** | **2022** | **2023** | **Total** |
| 500-1000 | 53 | 52 | 44 | 67 | 54 | 270 |
| 1001-1500 | 438 | 376 | 397 | 420 | 424 | 2055 |
| 1501-2000 | 161 | 142 | 155 | 184 | 162 | 803 |
| 2001-2500 | 27 | 25 | 23 | 41 | 31 | 146 |
| **Total Fatal Collisions** | **678** | **595** | **620** | **712** | **670** | **3,275** |

| | Percentage (%) of Fatality collisions | | | | | 5 years |
|---|---|---|---|---|---|---|
| **Weight Category** | **2019** | **2020** | **2021** | **2022** | **2023** | **Total** |
| 500-1000 | 7.8% | 8.7% | 7.1% | 9.4% | 8.1% | 8.3% |
| 1001-1500 | 64.5% | 63.2% | 64.1% | 59.0% | 63.2% | 62.8% |
| 1501-2000 | 23.7% | 23.9% | 25.0% | 25.8% | 24.2% | 24.5% |
| 2001-2500 | 3.9% | 4.2% | 3.7% | 5.8% | 4.6% | 4.5% |
| **Total Fatal Collisions** | **100%** | **100%** | **100%** | **100%** | **100%** | **100%** |

| Weight Category | Registered Cars | All Collisions | Ratio |
|---|---|---|---|
| 500-1000 | 9.8% | 8.3% | 0.84 |
| 1001-1500 | 63.0% | 62.8% | 1.00 |
| 1501-2000 | 23.2% | 24.5% | 1.06 |
| 2001-2500 | 3.4% | 4.5% | 1.30 |


Fatalitites




total_car >=2& pedestrian = 0 & cyclist = 0

Fatalitites

| CARS-CARS (no bike, no pedestrian) | | | | | | | | | | Fatalitites |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| | Frequency of Fatality collisions | | | | | 5 years | | | | |
| Weight Category | 2019 | 2020 | 2021 | 2022 | 2023 | Total | | | | |
| 500-1000 | 15 | 14 | 16 | 19 | 13 | 77 | | | | |
| 1001-1500 | 100 | 65 | 96 | 121 | 118 | 501 | | | | |
| 1501-2000 | 40 | 35 | 36 | 60 | 57 | 228 | | | | |
| 2001-2500 | 5 | 7 | 6 | 17 | 6 | 42 | | | | |
| **Total Fatal Collisions** | **159** | **122** | **154.5** | **218.1666667** | **194** | **847.6666667** | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | Percentage (%) of Fatality collisions | | | | | 5 years | | | | |
| Weight Category | 2019 | 2020 | 2021 | 2022 | 2023 | Total | | | | |
| 500-1000 | 9.1% | 11.7% | 10.4% | 8.8% | 6.5% | 9.0% | | | | |
| 1001-1500 | 62.7% | 53.5% | 62.2% | 55.7% | 60.9% | 59.1% | | | | |
| 1501-2000 | 24.9% | 28.9% | 23.5% | 27.6% | 29.4% | 26.9% | | | | |
| 2001-2500 | 3.3% | 5.9% | 3.9% | 7.9% | 3.2% | 5.0% | | | | |
| **Total Fatal Collisions** | **100%** | **100%** | **100%** | **100%** | **100%** | **100%** | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Weight Category | Registered Cars | Car-Car Collision | Ratio |
|---|---|---|---|
| 500-1000 | 9.8% | 9.0% | 0.92 |
| 1001-1500 | 63.0% | 59.1% | 0.94 |
| 1501-2000 | 23.2% | 26.9% | 1.16 |
| 2001-2500 | 3.4% | 5.0% | 1.44 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| | | | | | | | | | | |
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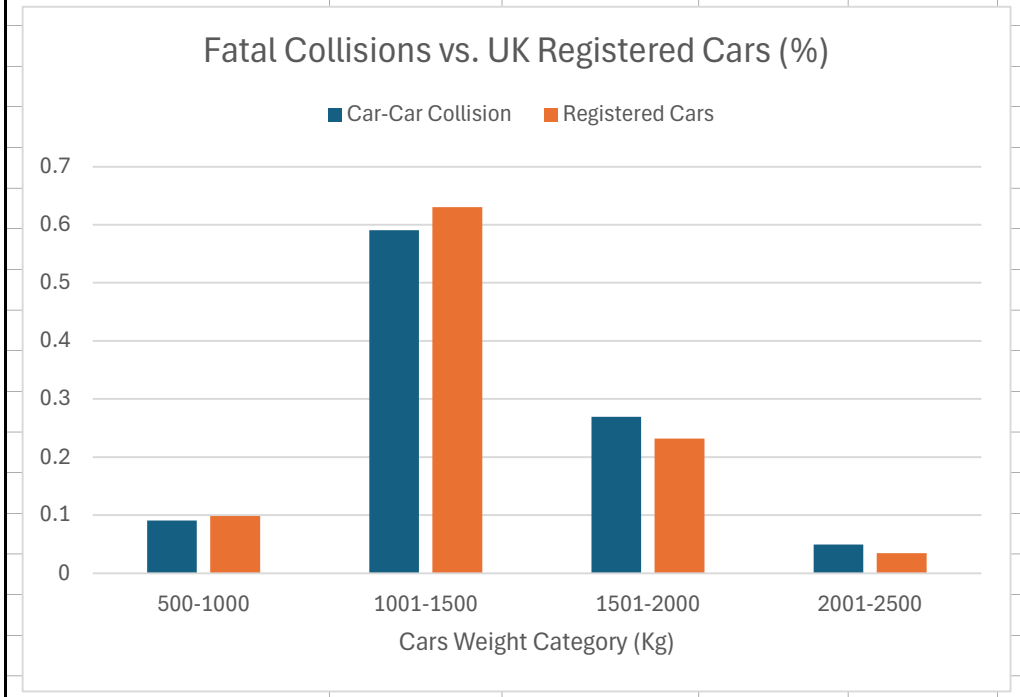
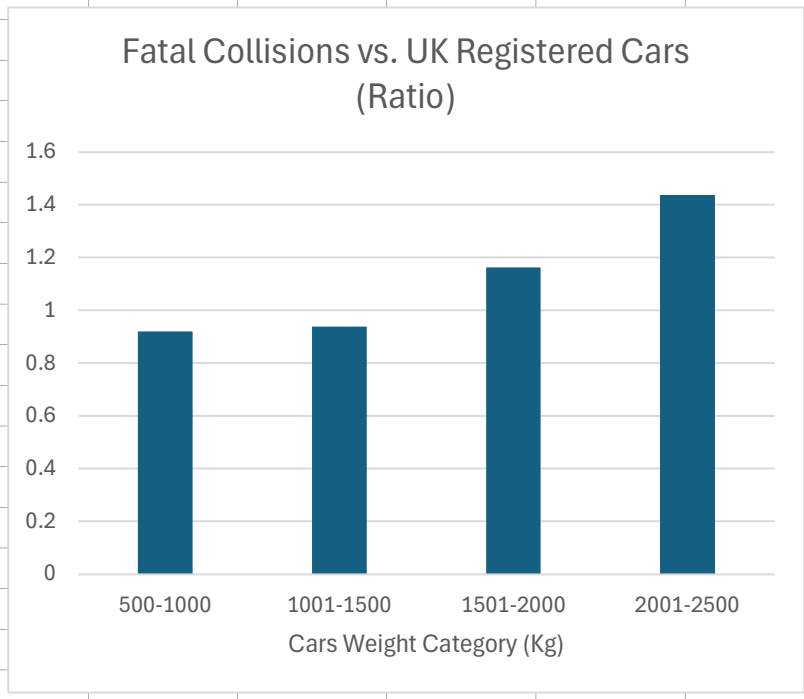
| | | | | | | | | | | |
| | | | | | | | | | | Fatalitites |




Fatalitites

accident_year >= 2019& total_car >=1 & bus_coach = 0 & van = 0 & hgv = 0 & pedestrian = 0 & cyclist = 1

Fatalitites

**CARS-BIKES (no pedestrian)**

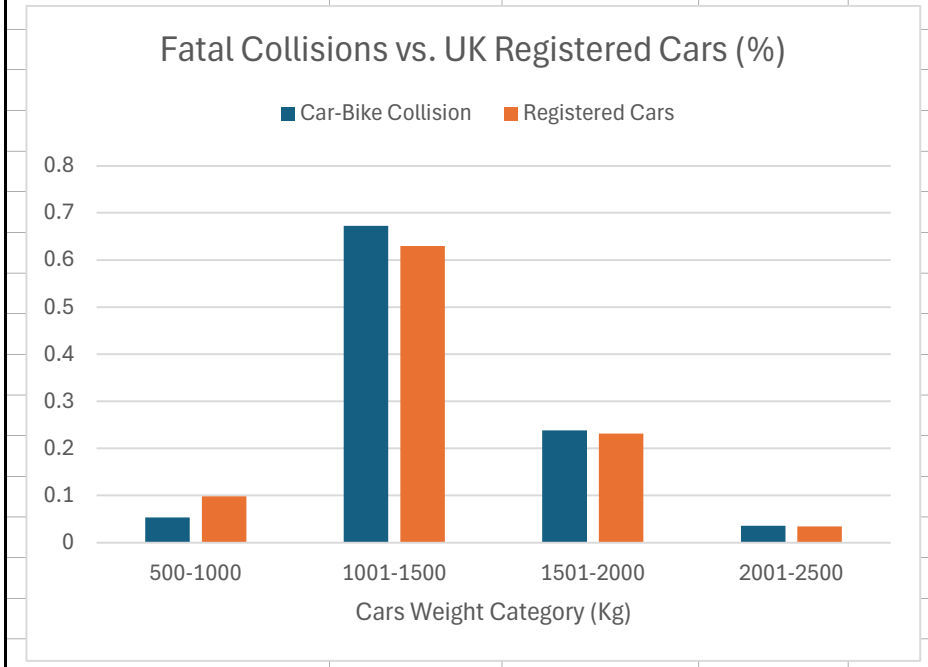
| | Frequency of Fatality collisions | | | | | 5 years |
|---|---|---|---|---|---|---|
| **Weight Category** | **2019** | **2020** | **2021** | **2022** | **2023** | **Total** |
| 500-1000 | 3 | 3 | 0 | 4 | 1 | 11 |
| 1001-1500 | 34 | 37 | 17 | 23 | 22 | 133 |
| 1501-2000 | 5 | 8 | 15 | 12 | 8 | 47 |
| 2001-2500 | 1 | 2 | 2 | 2 | 1 | 7 |
| **Total Fatal Collisions** | **42** | **50** | **33** | **40** | **32** | **197** |

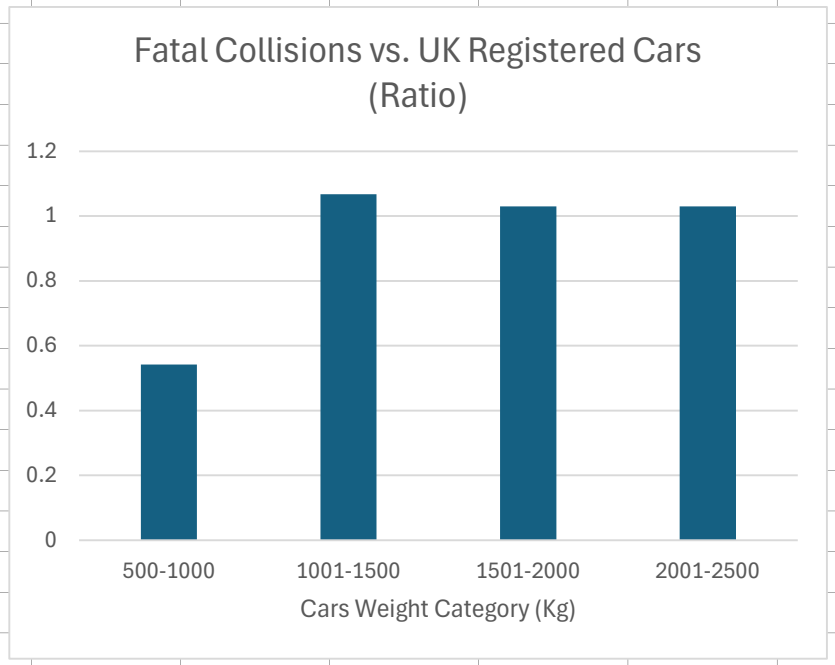
| | Percentage (%) of Fatality collisions | | | | | 5 years |
|---|---|---|---|---|---|---|
| **Weight Category** | **2019** | **2020** | **2021** | **2022** | **2023** | **Total** |
| 500-1000 | 7.1% | 6.0% | 0.0% | 8.8% | 3.1% | 5.3% |
| 1001-1500 | 79.8% | 74.0% | 51.5% | 57.5% | 68.8% | 67.3% |
| 1501-2000 | 10.7% | 16.0% | 43.9% | 30.0% | 25.0% | 23.9% |
| 2001-2500 | 2.4% | 4.0% | 4.5% | 3.8% | 3.1% | 3.6% |
| **Total Fatal Collisions** | **100%** | **100%** | **100%** | **100%** | **100%** | **100%** |

| Weight Category | Registered Cars | Car-Bike Collision | Ratio |
|---|---|---|---|
| 500-1000 | 9.8% | 5.3% | 0.54 |
| 1001-1500 | 63.0% | 67.3% | 1.07 |
| 1501-2000 | 23.2% | 23.9% | 1.03 |
| 2001-2500 | 3.4% | 3.6% | 1.03 |

Fatalitites

Fatalitites




Fatalitites

accident_year >= 2019& total_car >=1 & bus_coach = 0 & van = 0 & hgv = 0 & pedestrian = 1 & cyclist = 0

Fatalitites

**CARS-Pedestrian (no bike)**

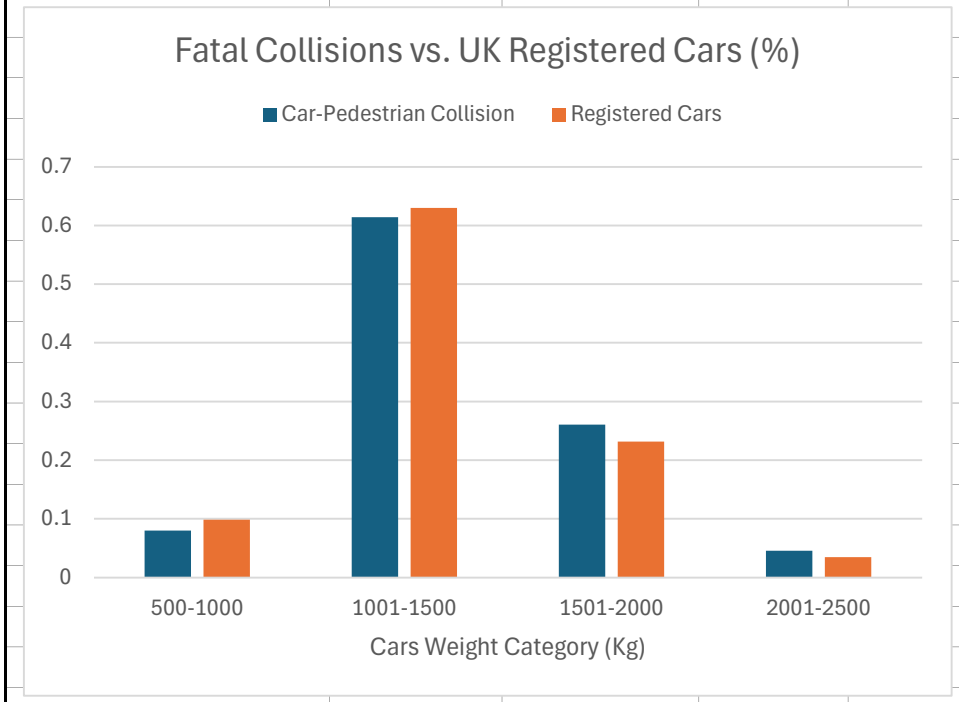
| | Frequency of Fatality collisions | | | | | 5 years |
|---|---|---|---|---|---|---|
| **Weight Category** | **2019** | **2020** | **2021** | **2022** | **2023** | **Total** |
| 500-1000 | 16 | 15 | 13 | 17 | 19 | 80 |
| 1001-1500 | 146 | 116 | 116 | 110 | 124 | 613 |
| 1501-2000 | 59 | 47 | 45 | 55 | 54 | 260 |
| 2001-2500 | 13 | 8 | 7 | 8 | 9 | 45 |
| **Total Fatal Collisions** | **234** | **185** | **181** | **191** | **207** | **998** |

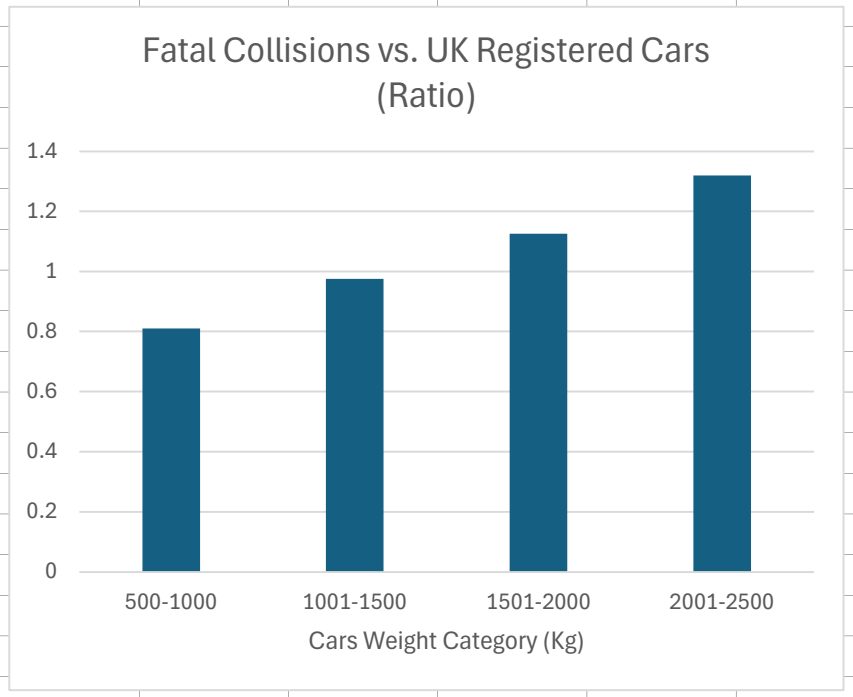
| | Percentage (%) of Fatality collisions | | | | | 5 years |
|---|---|---|---|---|---|---|
| **Weight Category** | **2019** | **2020** | **2021** | **2022** | **2023** | **Total** |
| 500-1000 | 6.7% | 7.8% | 7.3% | 9.1% | 9.1% | 8.0% |
| 1001-1500 | 62.6% | 62.6% | 64.2% | 57.6% | 60.1% | 61.4% |
| 1501-2000 | 25.0% | 25.3% | 24.8% | 29.0% | 26.3% | 26.1% |
| 2001-2500 | 5.7% | 4.2% | 3.7% | 4.3% | 4.5% | 4.6% |
| **Total Fatal Collisions** | **100%** | **100%** | **100%** | **100%** | **100%** | **100%** |

| Weight Category | Registered Cars | Car-Pedestrian Collision | Ratio |
|---|---|---|---|
| 500-1000 | 9.8% | 8.0% | 0.81 |
| 1001-1500 | 63.0% | 61.4% | 0.97 |
| 1501-2000 | 23.2% | 26.1% | 1.12 |
| 2001-2500 | 3.4% | 4.6% | 1.32 |

Fatalitites

Fatalitites

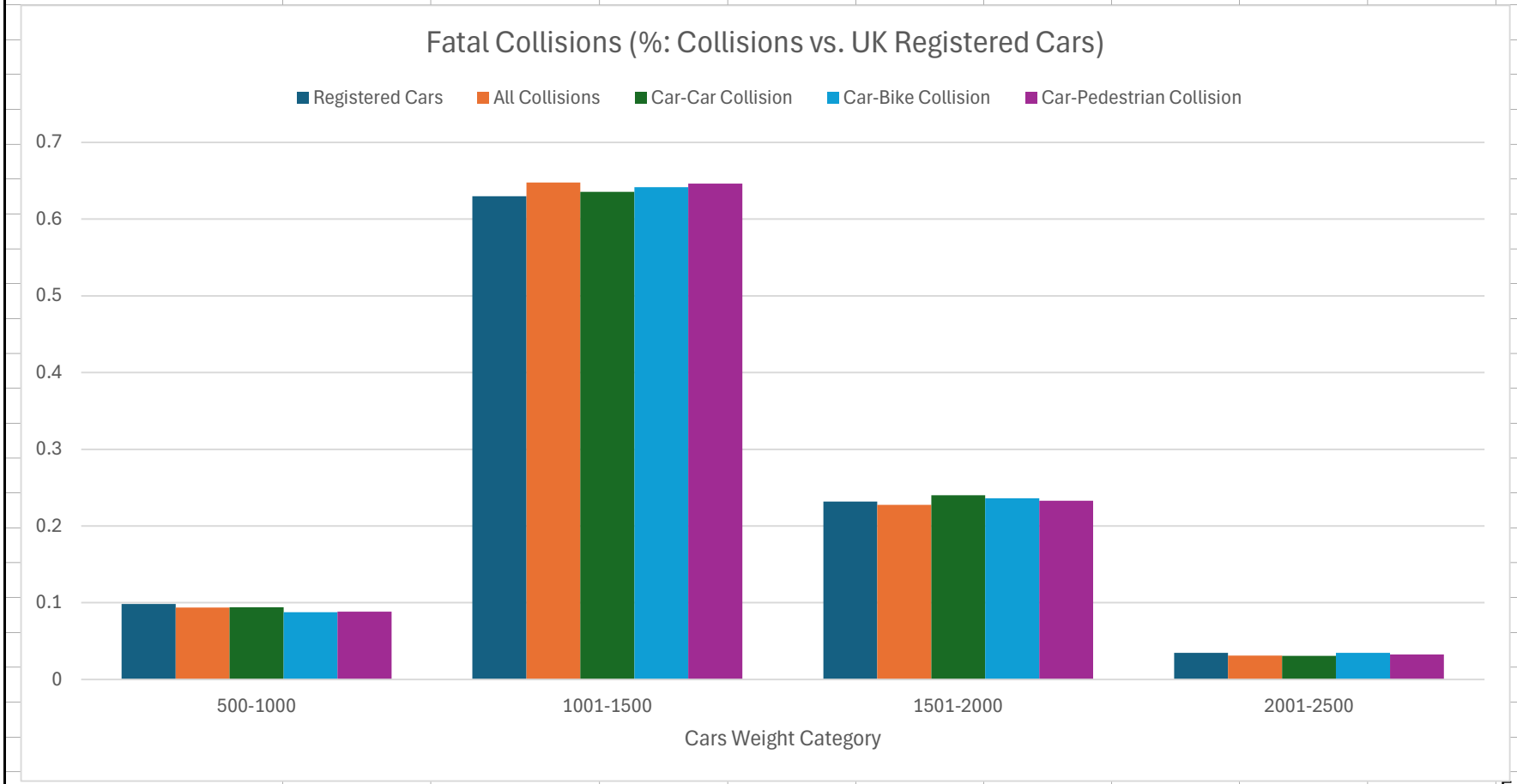



Fatalitites

| Weight Category | Registered Cars | All Collisions | Car-Car Collision | Car-Bike Collision | Car-Pedestrian Collision |
|---|---|---|---|---|---|
| 500-1000 | 9.8% | 8.3% | 9.0% | 5.3% | 8.0% |
| 1001-1500 | 9.8% | 62.8% | 59.1% | 67.3% | 61.4% |
| 1501-2000 | 9.8% | 24.5% | 26.9% | 23.9% | 26.1% |
| 2001-2500 | 9.8% | 4.5% | 5.0% | 3.6% | 4.6% |

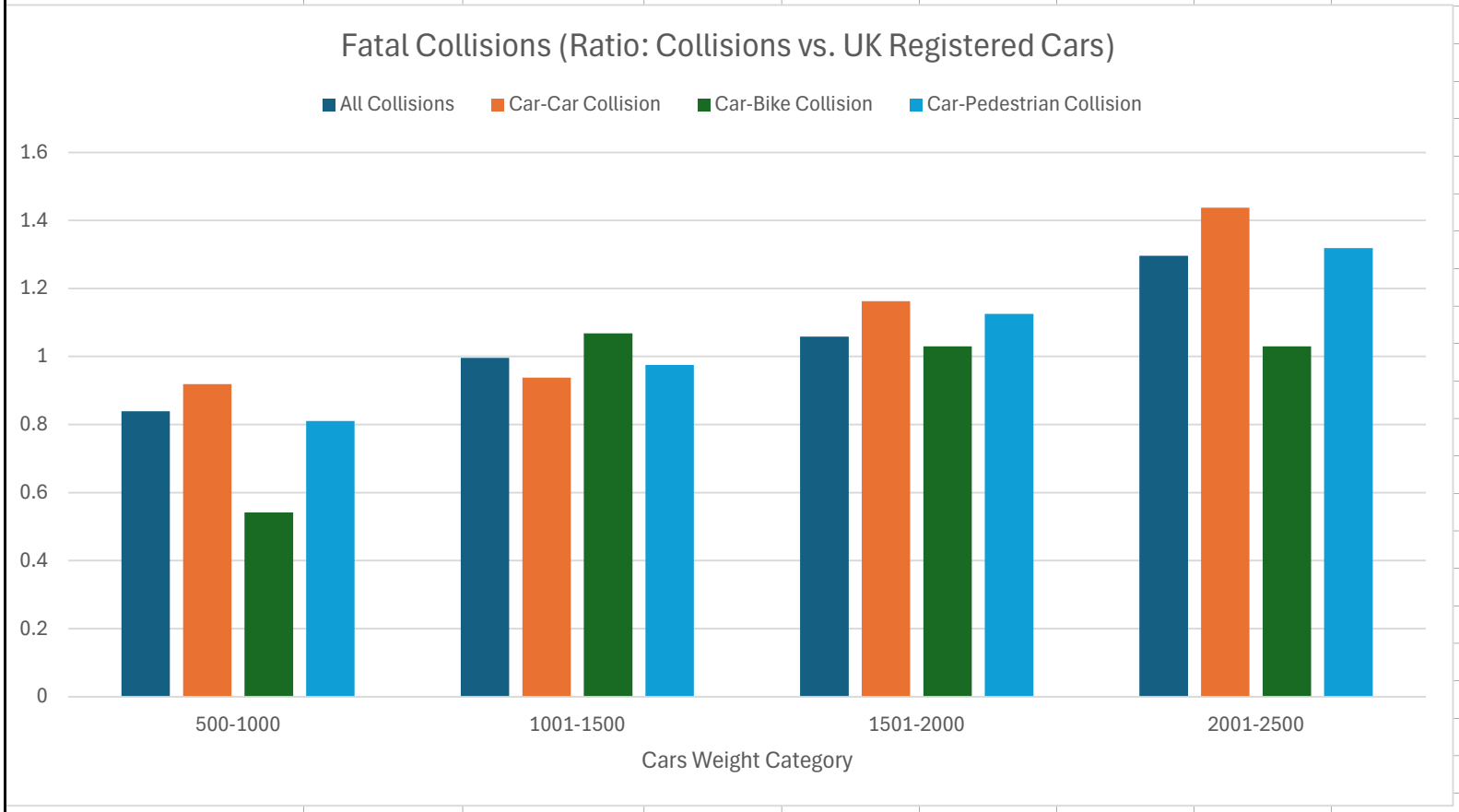
Fatalitites




Fatalitites

| Weight Category | All Collisions | Car-Car Collision | Car-Bike Collision | Car-Pedestrian Collision |
|---|---|---|---|---|
| 500-1000 | 0.84 | 0.92 | 0.54 | 0.81 |
| 1001-1500 | 1.00 | 0.94 | 1.07 | 0.97 |
| 1501-2000 | 1.06 | 1.16 | 1.03 | 1.12 |
| 2001-2500 | 1.30 | 1.44 | 1.03 | 1.32 |

Fatalitites




Fatalitites

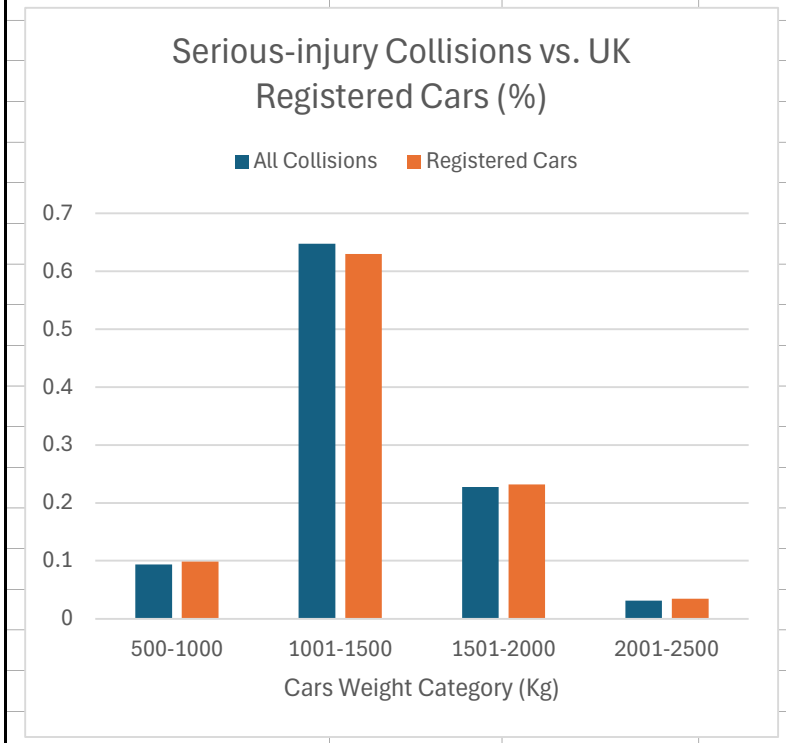
| All (cars, bikes, pedestrians) | | | | | | | | Serious Injury |
|---|---|---|---|---|---|---|---|---|
| | Frequency of serious collisions | | | | | 5 years | | |
| Weight Category | 2019 | 2020 | 2021 | 2022 | 2023 | Total | | |
| 500-1000 | 1035 | 797 | 845 | 1005 | 1016 | 4698 | | |
| 1001-1500 | 6761 | 5351 | 6059 | 7047 | 7278 | 32497 | | |
| 1501-2000 | 2215 | 1802 | 2114 | 2613 | 2675 | 11419 | | |
| 2001-2500 | 252 | 212 | 286 | 365 | 444 | 1559 | | |
| **Total** | **10,263** | **8,163** | **9,304** | **11,031** | **11,412** | **50,172** | | |

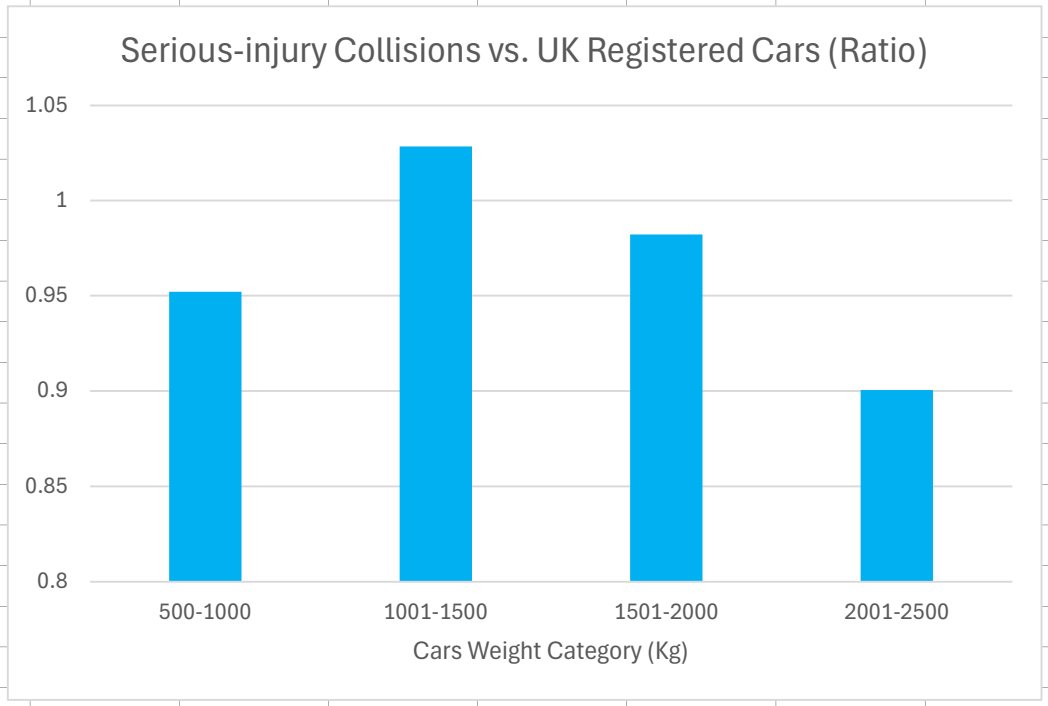
| | Percentage (%) of serious collisions | | | | | 5 years |
|---|---|---|---|---|---|---|
| Weight Category | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
| 500-1000 | 10.1% | 9.8% | 9.1% | 9.1% | 8.9% | 9.4% |
| 1001-1500 | 65.9% | 65.6% | 65.1% | 63.9% | 63.8% | 64.8% |
| 1501-2000 | 21.6% | 22.1% | 22.7% | 23.7% | 23.4% | 22.8% |
| 2001-2500 | 2.5% | 2.6% | 3.1% | 3.3% | 3.9% | 3.1% |
| **Total** | **100%** | **100%** | **100%** | **100%** | **100%** | **100%** |

| Weight Category | Registered Cars | All Collisions | Ratio |
|---|---|---|---|
| 500-1000 | 9.8% | 9.4% | 0.95 |
| 1001-1500 | 63.0% | 64.8% | 1.03 |
| 1501-2000 | 23.2% | 22.8% | 0.98 |
| 2001-2500 | 3.4% | 3.1% | 0.90 |

**Serious Injury**

Serious Injury




Serious Injury

Serious Injury

## CARS-CARS (no bike, no pedestrian)

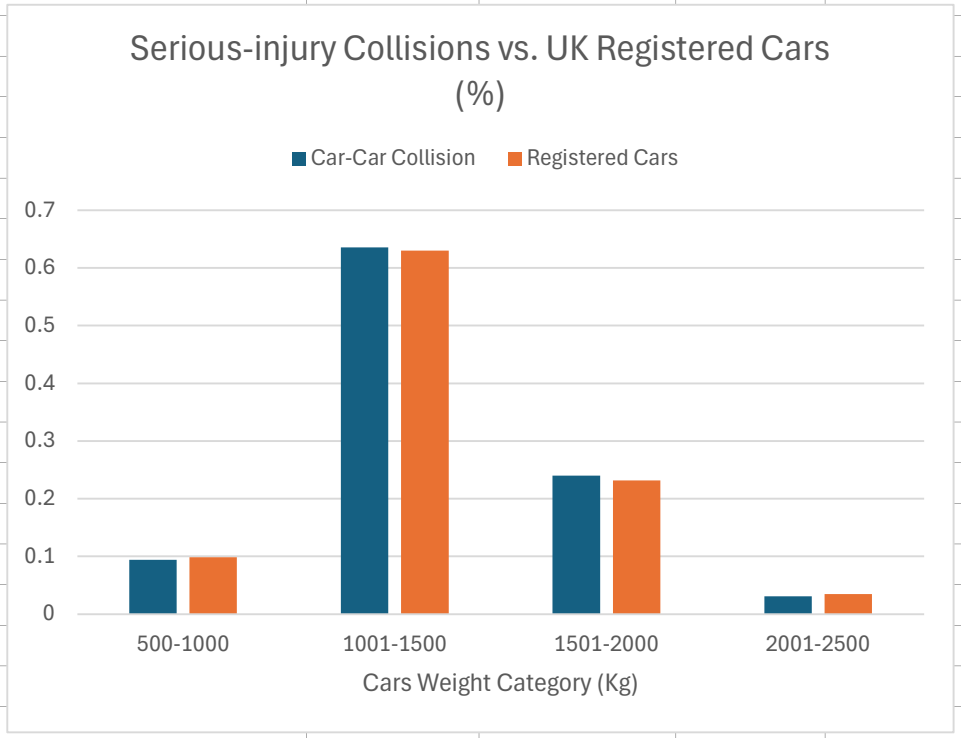
| | Frequency of serious collisions | | | | | 5 years |
|---|---|---|---|---|---|---|
| **Weight Category** | **2019** | **2020** | **2021** | **2022** | **2023** | **Total** |
| 500-1000 | 258 | 195 | 221 | 283 | 295 | 1252 |
| 1001-1500 | 1721 | 1161 | 1538 | 1928 | 2120 | 8468 |
| 1501-2000 | 605 | 455 | 593 | 752 | 793 | 3198 |
| 2001-2500 | 67 | 55 | 72 | 99 | 115 | 408 |
| **Total** | **2,651** | **1,867** | **2,423** | **3,061** | **3,323** | **13,325** |

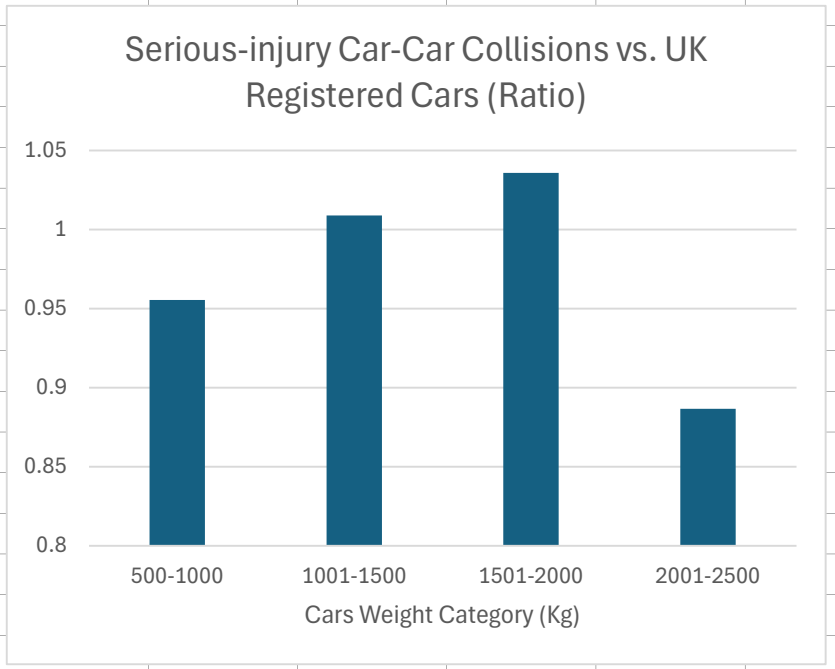
| | Percentage (%) of serious collisions | | | | | 5 years |
|---|---|---|---|---|---|---|
| **Weight Category** | **2019** | **2020** | **2021** | **2022** | **2023** | **Total** |
| 500-1000 | 9.7% | 10.5% | 9.1% | 9.2% | 8.9% | 9.4% |
| 1001-1500 | 64.9% | 62.2% | 63.5% | 63.0% | 63.8% | 63.5% |
| 1501-2000 | 22.8% | 24.4% | 24.5% | 24.6% | 23.9% | 24.0% |
| 2001-2500 | 2.5% | 2.9% | 3.0% | 3.2% | 3.5% | 3.1% |
| **Total** | **100%** | **100%** | **100%** | **100%** | **100%** | **100%** |

| Weight Category | Registered Cars | Car-Car Collision | Ratio |
|---|---|---|---|
| 500-1000 | 9.8% | 9.4% | 0.96 |
| 1001-1500 | 63.0% | 63.5% | 1.01 |
| 1501-2000 | 23.2% | 24.0% | 1.04 |
| 2001-2500 | 3.4% | 3.1% | 0.89 |

Serious Injury

Serious Injury




Serious Injury

Serious Injury

## CARS-BIKES (no pedestrian)

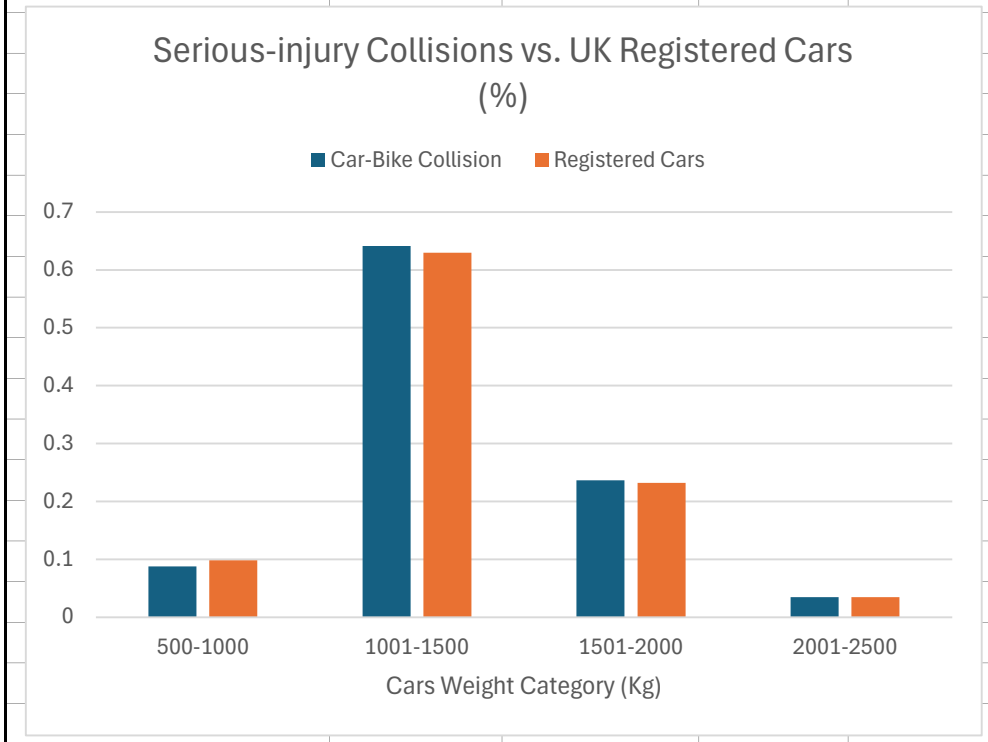
| | Frequency of serious collisions | | | | | 5 years |
|---|---|---|---|---|---|---|
| **Weight Category** | **2019** | **2020** | **2021** | **2022** | **2023** | **Total** |
| 500-1000 | 168 | 181 | 156 | 145 | 161 | 811 |
| 1001-1500 | 1177 | 1207 | 1186 | 1188 | 1178 | 5936 |
| 1501-2000 | 406 | 406 | 428 | 492 | 454 | 2186 |
| 2001-2500 | 41 | 42 | 76 | 74 | 89 | 321 |
| **Total** | **1,792** | **1,836** | **1,845** | **1,899** | **1,882** | **9,253** |

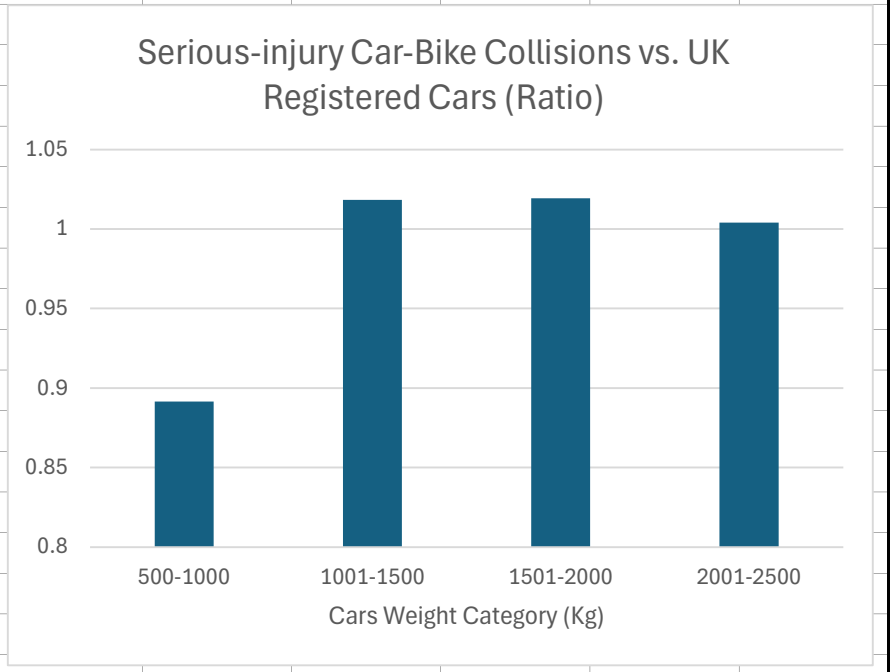
| | Percentage (%) of serious collisions | | | | | 5 years |
|---|---|---|---|---|---|---|
| **Weight Category** | **2019** | **2020** | **2021** | **2022** | **2023** | **Total** |
| 500-1000 | 9.4% | 9.9% | 8.4% | 7.7% | 8.6% | 8.8% |
| 1001-1500 | 65.7% | 65.7% | 64.3% | 62.6% | 62.6% | 64.1% |
| 1501-2000 | 22.7% | 22.1% | 23.2% | 25.9% | 24.1% | 23.6% |
| 2001-2500 | 2.3% | 2.3% | 4.1% | 3.9% | 4.7% | 3.5% |
| **Total** | **100%** | **100%** | **100%** | **100%** | **100%** | **100%** |

| Weight Category | Registered Cars | Car-Bike Collision | Ratio |
|---|---|---|---|
| 500-1000 | 9.8% | 8.8% | 0.89 |
| 1001-1500 | 63.0% | 64.1% | 1.02 |
| 1501-2000 | 23.2% | 23.6% | 1.02 |
| 2001-2500 | 3.4% | 3.5% | 1.00 |

Serious Injury

Serious Injury




Serious Injury

Serious Injury

## CARS-Pedestrian (no bike)

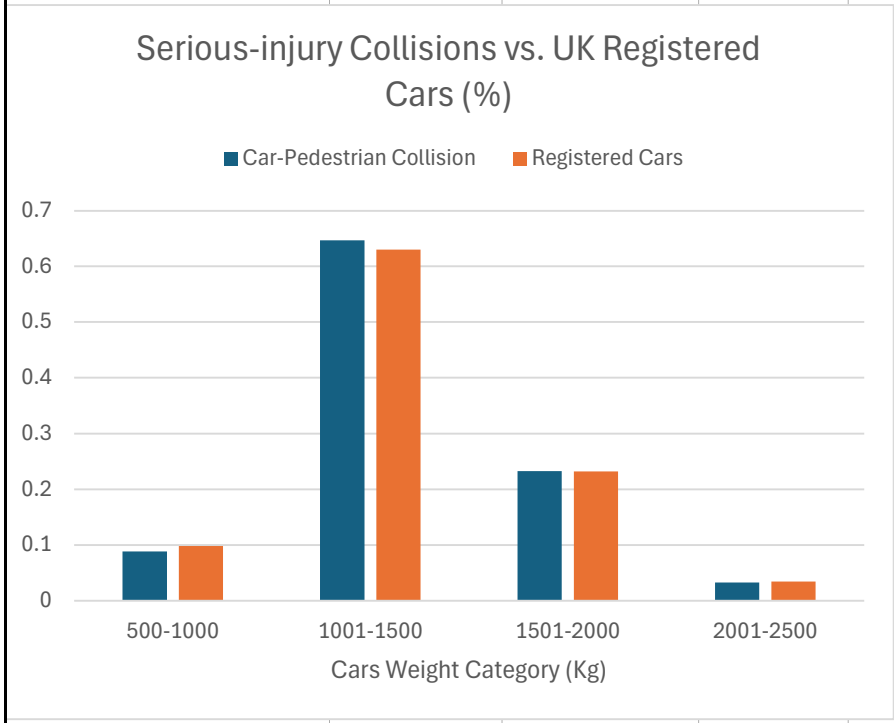
| | Frequency of serious collisions | | | | | 5 years |
|---|---|---|---|---|---|---|
| **Weight Category** | **2019** | **2020** | **2021** | **2022** | **2023** | **Total** |
| 500-1000 | 283 | 171 | 178 | 286 | 256 | 1174 |
| 1001-1500 | 1884 | 1305 | 1510 | 1919 | 1976 | 8594 |
| 1501-2000 | 652 | 455 | 541 | 685 | 763 | 3096 |
| 2001-2500 | 69 | 67 | 65 | 102 | 131 | 433 |
| **Total** | **2,888** | **1,997** | **2,294** | **2,992** | **3,125** | **13,296** |

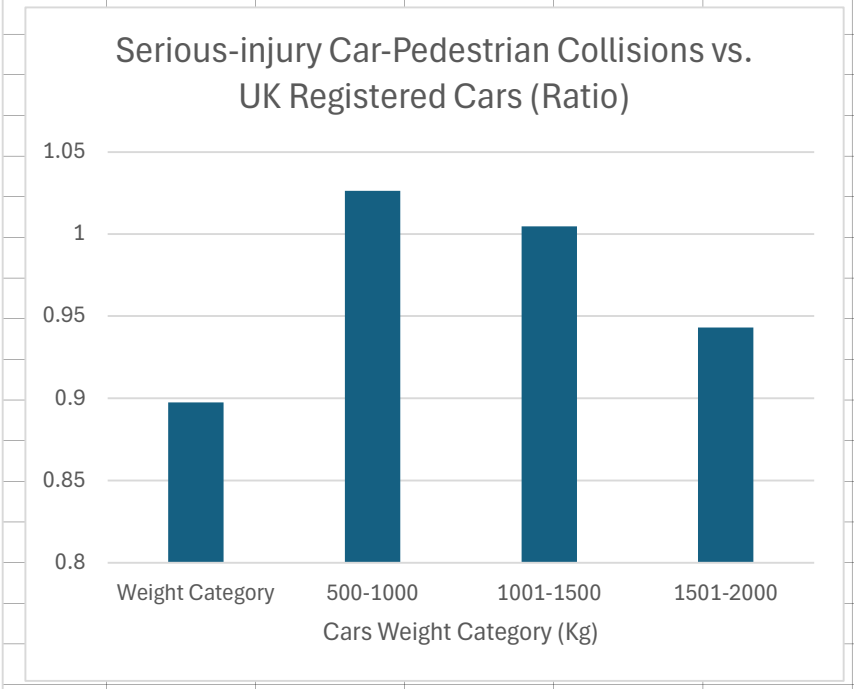
| | Percentage (%) of serious collisions | | | | | 5 years |
|---|---|---|---|---|---|---|
| **Weight Category** | **2019** | **2020** | **2021** | **2022** | **2023** | **Total** |
| 500-1000 | 9.8% | 8.6% | 7.8% | 9.6% | 8.2% | 8.8% |
| 1001-1500 | 65.2% | 65.4% | 65.8% | 64.1% | 63.2% | 64.6% |
| 1501-2000 | 22.6% | 22.8% | 23.6% | 22.9% | 24.4% | 23.3% |
| 2001-2500 | 2.4% | 3.3% | 2.8% | 3.4% | 4.2% | 3.3% |
| **Total** | **100%** | **100%** | **100%** | **100%** | **100%** | **100%** |

| Weight Category | Registered Cars | Car-Pedestrian Collision | Ratio |
|---|---|---|---|
| 500-1000 | 9.8% | 8.8% | 0.90 |
| 1001-1500 | 63.0% | 64.6% | 1.03 |
| 1501-2000 | 23.2% | 23.3% | 1.00 |
| 2001-2500 | 3.4% | 3.3% | 0.94 |

Serious Injury

Serious Injury



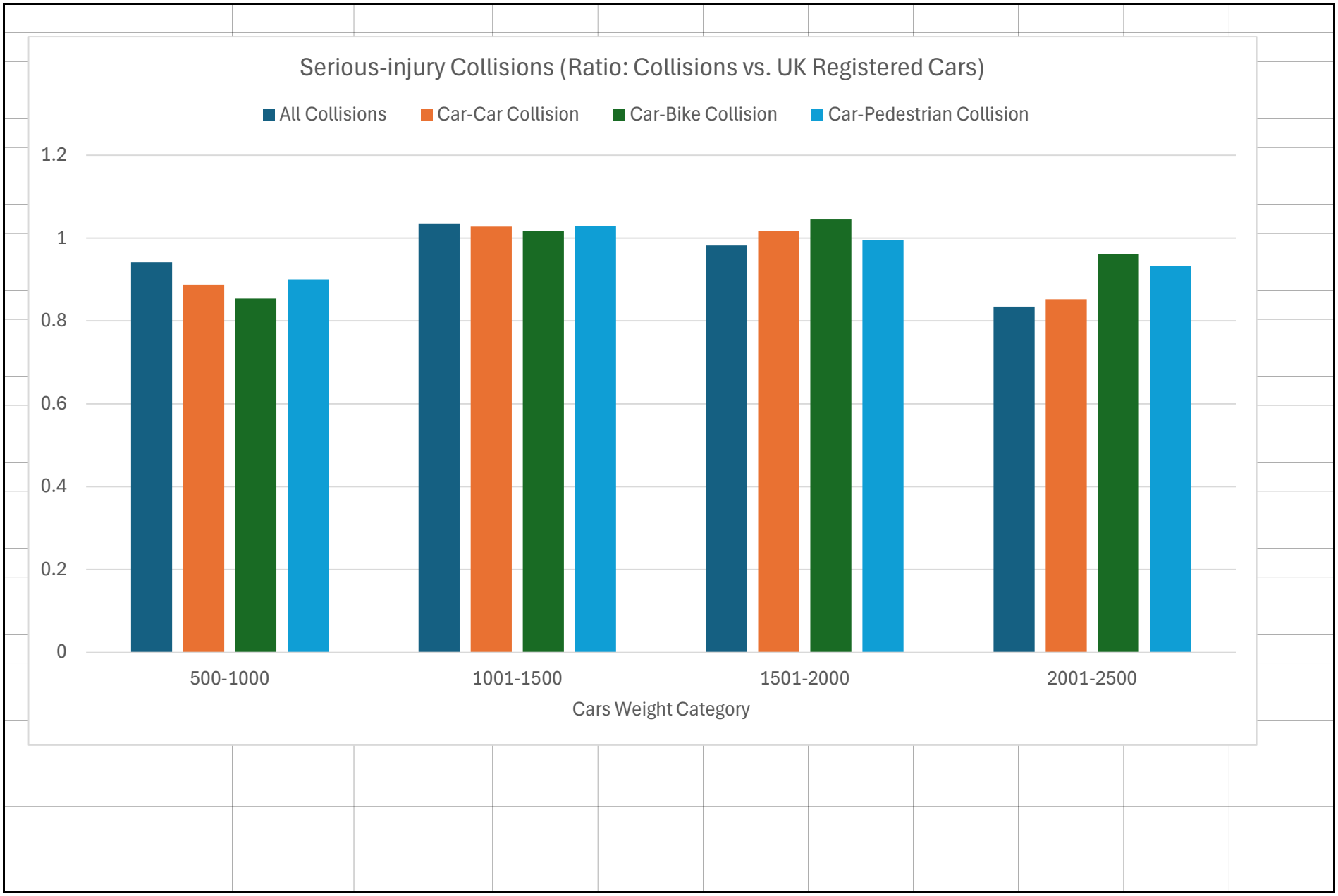

Serious Injury

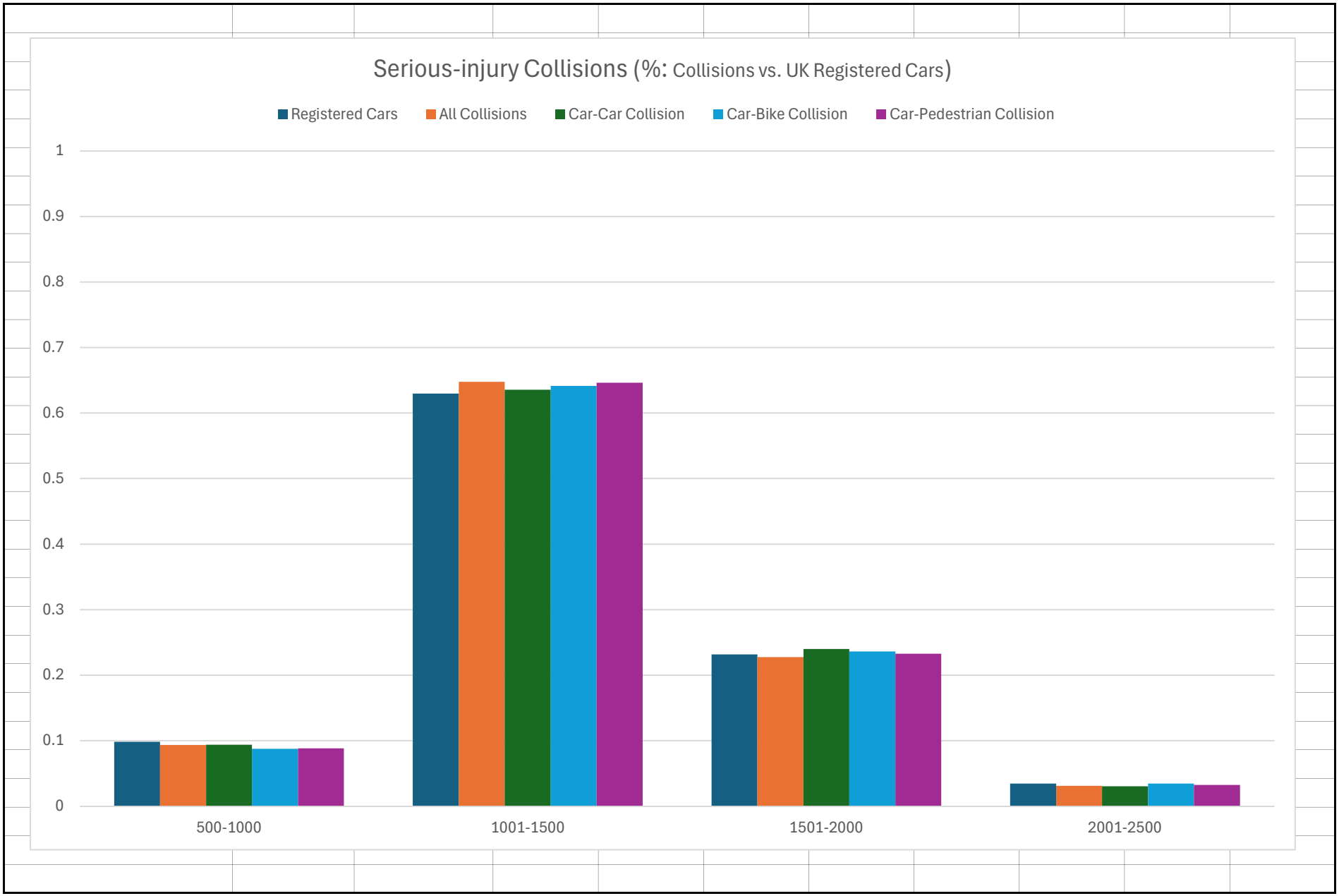
Serious Injury

| Weight Category | Registered Cars | All Collisions | Car-Car Collision | Car-Bike Collision | Car-Pedestrian Collision |
|---|---|---|---|---|---|
| 500-1000 | 9.8% | 9.4% | 9.4% | 8.8% | 8.8% |
| 1001-1500 | 63.0% | 64.8% | 63.5% | 64.1% | 64.6% |
| 1501-2000 | 23.2% | 22.8% | 0.24 | 23.6% | 23.3% |
| 2001-2500 | 3.4% | 3.1% | 0.03 | 3.5% | 3.3% |

| Weight Category | All Collisions | Car-Car Collision | Car-Bike Collision | Car-Pedestrian Collision |
|---|---|---|---|---|
| 500-1000 | 0.95 | 0.96 | 0.89 | 0.90 |
| 1001-1500 | 1.03 | 1.01 | 1.02 | 1.03 |
| 1501-2000 | 0.98 | 1.04 | 1.02 | 1.00 |
| 2001-2500 | 0.90 | 0.89 | 1.00 | 0.94 |

Serious Injury


Serious-injury Collisions (Ratio: Collisions vs. UK Registered Cars)
All Collisions
Car-Car Collision
Car-Bike Collision
Car-Pedestrian Collision
1.2
1
0.8
0.6
0.4
0.2
0
500-1000
1001-1500
1501-2000
2001-2500
Cars Weight Category


Serious-injury Collisions (%: Collisions vs. UK Registered Cars)
Registered Cars
All Collisions
Car-Car Collision
Car-Bike Collision
Car-Pedestrian Collision
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
500-1000
1001-1500
1501-2000
2001-2500

Slight Injury

**All (cars, bikes, pedestrians)**

| | Frequency of slight-injury collisions | | | | | 5 years |
|---|---|---|---|---|---|---|
| **Weight Category** | **2019** | **2020** | **2021** | **2022** | **2023** | **Total** |
| 500-1000 | 5190 | 3759 | 3765 | 3988 | 3894 | 20597 |
| 1001-1500 | 33709 | 25802 | 27453 | 29547 | 28327 | 144837 |
| 1501-2000 | 11338 | 8593 | 9481 | 10614 | 10601 | 50626 |
| 2001-2500 | 1173 | 984 | 1146 | 1431 | 1673 | 6406 |
| **Total** | **51,409** | **39,137** | **41,846** | **45,580** | **44,494** | **222,467** |

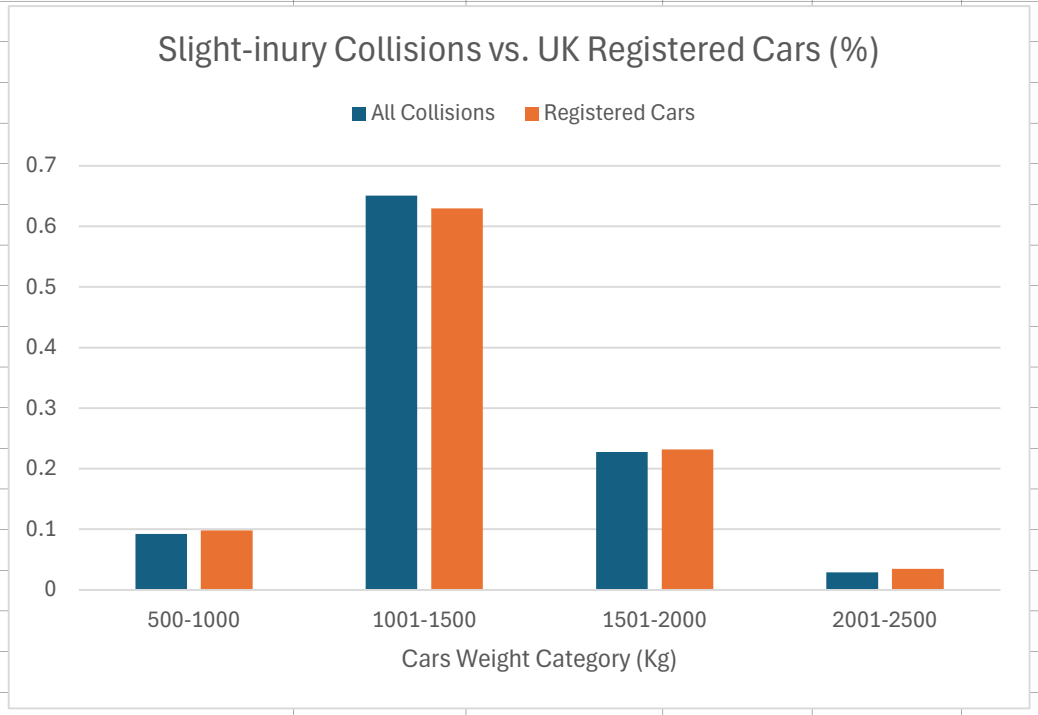
**Note: only fill the yellow cells. The rest will be filled authomatically.**

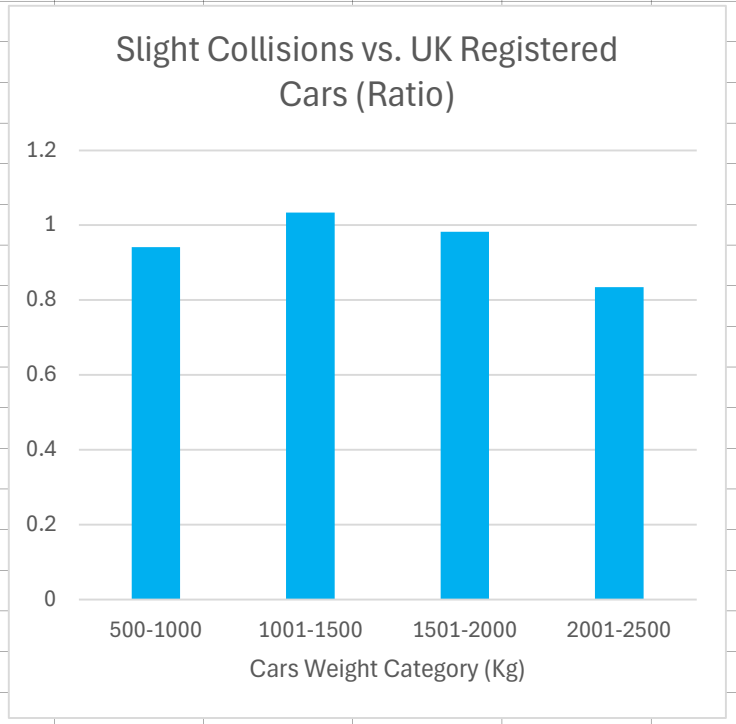
| | Percentage (%) of slight collisions | | | | | 5 years |
|---|---|---|---|---|---|---|
| **Weight Category** | **2019** | **2020** | **2021** | **2022** | **2023** | **Total** |
| 500-1000 | 10.1% | 9.6% | 9.0% | 8.8% | 8.8% | 9.3% |
| 1001-1500 | 65.6% | 65.9% | 65.6% | 64.8% | 63.7% | 65.1% |
| 1501-2000 | 22.1% | 22.0% | 22.7% | 23.3% | 23.8% | 22.8% |
| 2001-2500 | 2.3% | 2.5% | 2.7% | 3.1% | 3.8% | 2.9% |
| **Total** | **1** | **1** | **1** | **1** | **1** | **1** |

| Weight Category | Registered Cars | All Collisions | Ratio |
|---|---|---|---|
| 500-1000 | 9.8% | 9.3% | 0.94 |
| 1001-1500 | 63.0% | 65.1% | 1.03 |
| 1501-2000 | 23.2% | 22.8% | 0.98 |
| 2001-2500 | 3.4% | 2.9% | 0.83 |

Slight Injury

Slight Injury




Slight Injury

Slight Injury

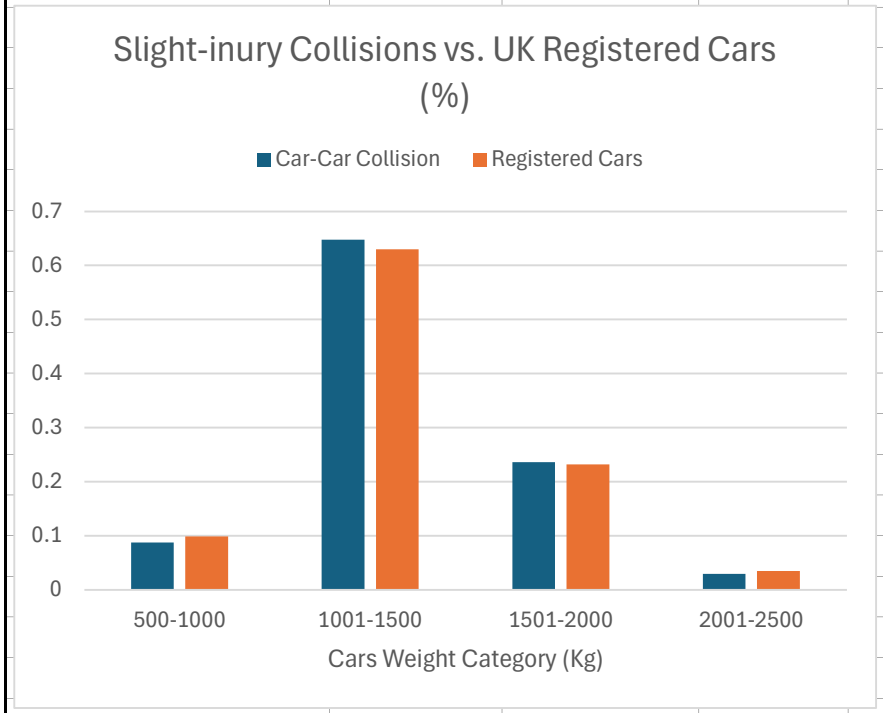
**CARS-CARS (no bike, no pedestrian)**

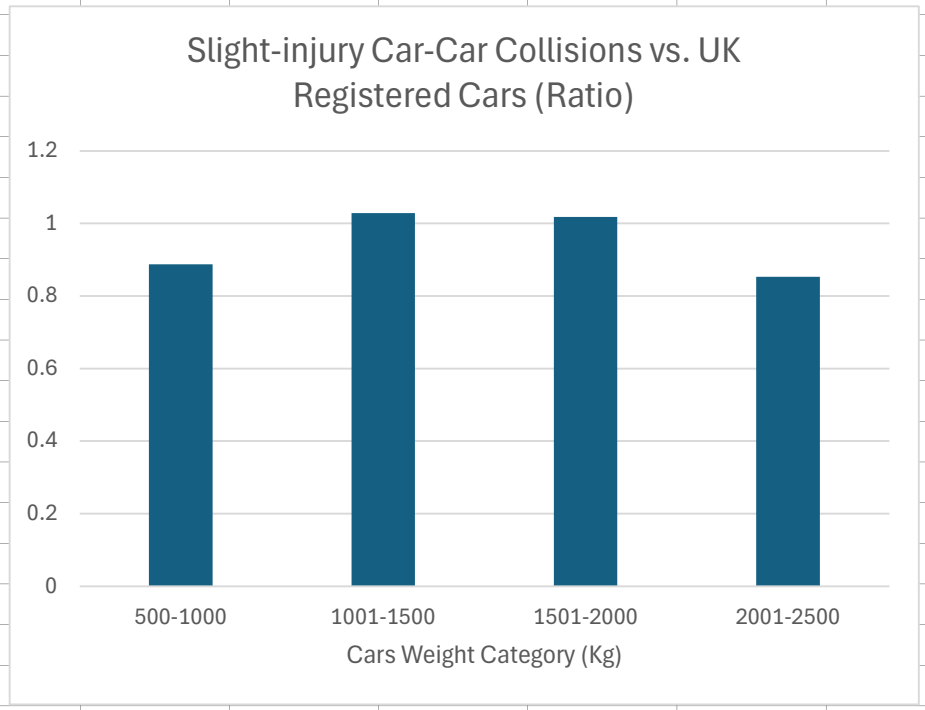
| | Frequency of slight-injury collisions | | | | | 5 years |
|---|---|---|---|---|---|---|
| **Weight Category** | **2019** | **2020** | **2021** | **2022** | **2023** | **Total** |
| 500-1000 | 1919 | 1283 | 1362 | 1501 | 1487 | 7552 |
| 1001-1500 | 13129 | 9515 | 10496 | 11549 | 11336 | 56025 |
| 1501-2000 | 4565 | 3349 | 3779 | 4349 | 4355 | 20398 |
| 2001-2500 | 483 | 379 | 433 | 573 | 677 | 2545 |
| **Total** | **20,096** | **14,527** | **16,071** | **17,972** | **17,855** | **86,520** |

| | Percentage (%) of slight-injury collisions | | | | | 5 years |
|---|---|---|---|---|---|---|
| **Weight Category** | **2019** | **2020** | **2021** | **2022** | **2023** | **Total** |
| 500-1000 | 9.6% | 8.8% | 8.5% | 8.4% | 8.3% | 8.7% |
| 1001-1500 | 65.3% | 65.5% | 65.3% | 64.3% | 63.5% | 64.8% |
| 1501-2000 | 22.7% | 23.1% | 23.5% | 24.2% | 24.4% | 23.6% |
| 2001-2500 | 2.4% | 2.6% | 2.7% | 3.2% | 3.8% | 2.9% |
| **Total** | **1** | **1** | **1** | **1** | **1** | **1** |

| Weight Category | Registered Cars | Car-Car Collision | Ratio |
|---|---|---|---|
| 500-1000 | 9.8% | 8.7% | 0.89 |
| 1001-1500 | 63.0% | 64.8% | 1.03 |
| 1501-2000 | 23.2% | 23.6% | 1.02 |
| 2001-2500 | 3.4% | 2.9% | 0.85 |

Slight Injury



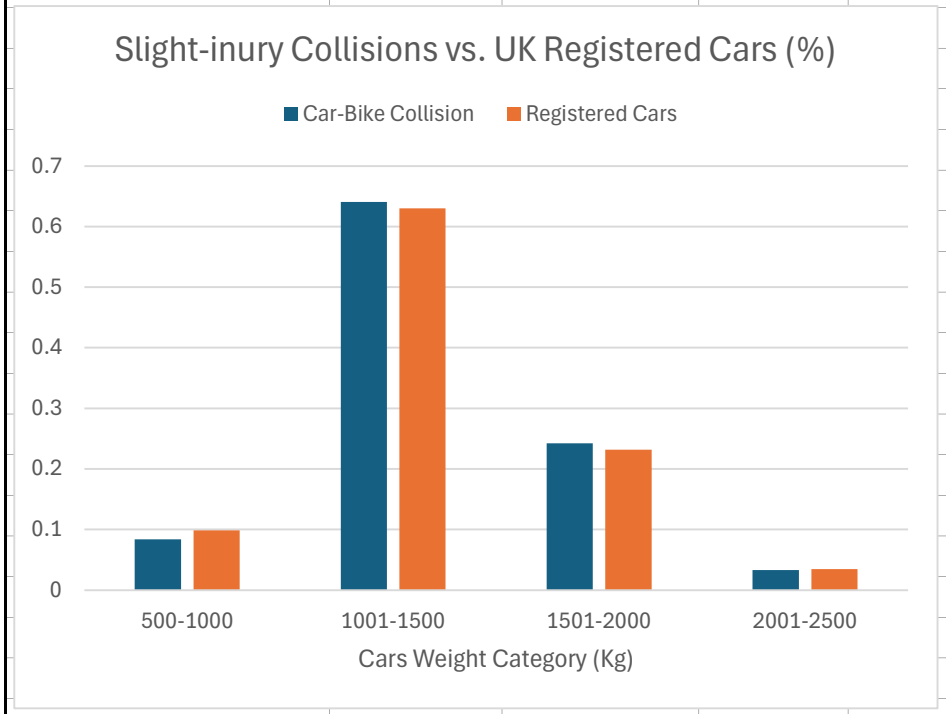



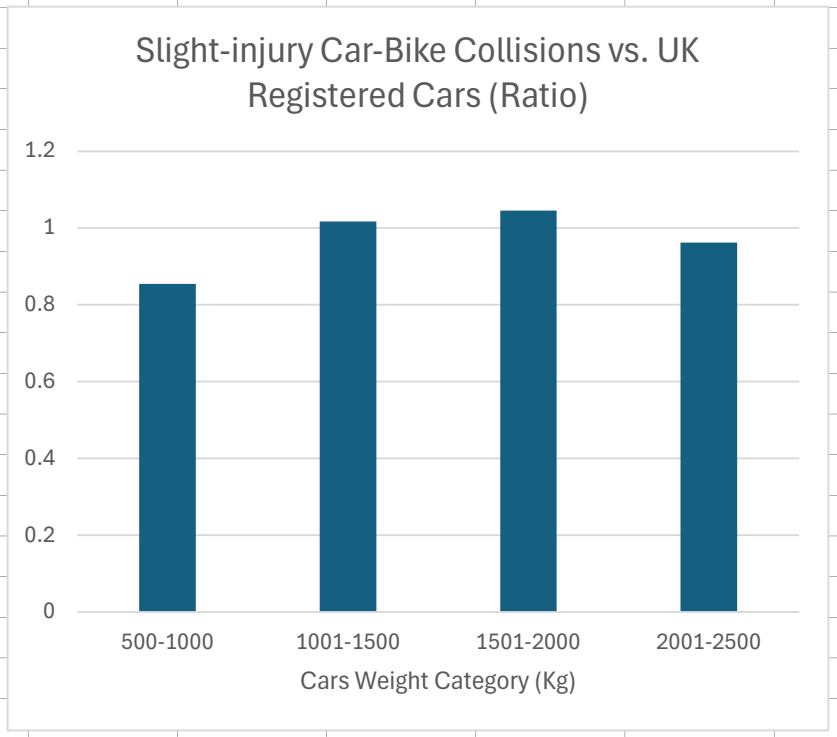
## CARS-BIKES (no pedestrian)

| | Frequency of slight-injury collisions | | | | | 5 years |
|---|---|---|---|---|---|---|
| **Weight Category** | **2019** | **2020** | **2021** | **2022** | **2023** | **Total** |
| 500-1000 | 596 | 566 | 508 | 510 | 500 | 2679 |
| 1001-1500 | 4381 | 4124 | 4042 | 4012 | 3876 | 20434 |
| 1501-2000 | 1566 | 1412 | 1535 | 1641 | 1574 | 7728 |
| 2001-2500 | 155 | 173 | 192 | 252 | 287 | 1059 |
| **Total** | **6,697** | **6,275** | **6,278** | **6,414** | **6,237** | **31,901** |

| | Percentage (%) of slight-injury collisions | | | | | 5 years |
|---|---|---|---|---|---|---|
| **Weight Category** | **2019** | **2020** | **2021** | **2022** | **2023** | **Total** |
| 500-1000 | 8.9% | 9.0% | 8.1% | 8.0% | 8.0% | 8.4% |
| 1001-1500 | 65.4% | 65.7% | 64.4% | 62.5% | 62.1% | 64.1% |
| 1501-2000 | 23.4% | 22.5% | 24.5% | 25.6% | 25.2% | 24.2% |
| 2001-2500 | 2.3% | 2.8% | 3.1% | 3.9% | 4.6% | 3.3% |
| **Total** | **1** | **1** | **1** | **1** | **1** | **1** |

| Weight Category | Registered Cars | Car-Bike Collision | Ratio |
|---|---|---|---|
| 500-1000 | 9.8% | 8.4% | 0.85 |
| 1001-1500 | 63.0% | 64.1% | 1.02 |
| 1501-2000 | 23.2% | 24.2% | 1.05 |
| 2001-2500 | 3.4% | 3.3% | 0.96 |


Slight-inury Collisions vs. UK Registered Cars (%)
Car-Bike Collision
Registered Cars
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
500-1000
1001-1500
1501-2000
2001-2500
Cars Weight Category (Kg)

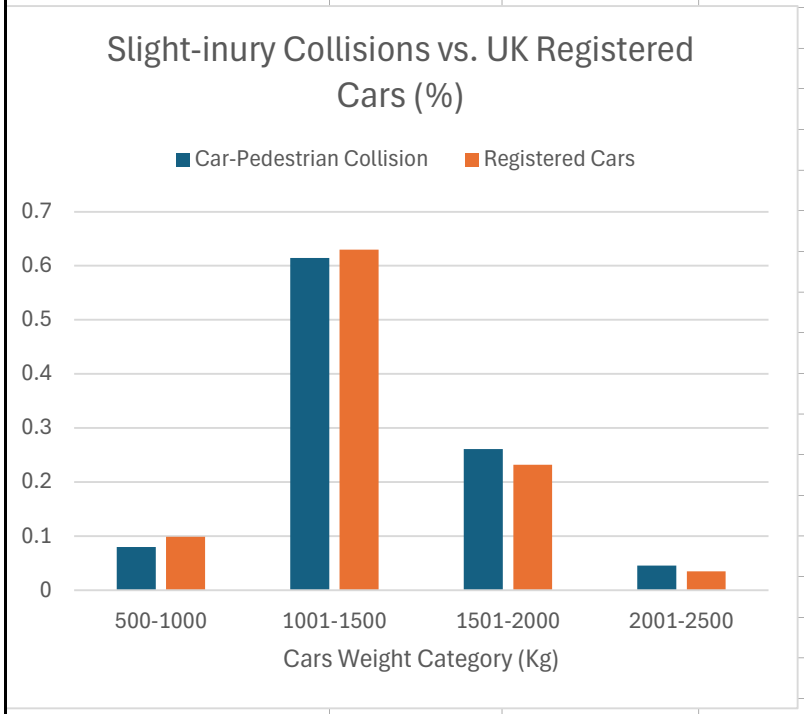

Slight-injury Car-Bike Collisions vs. UK Registered Cars (Ratio)
1.2
1
0.8
0.6
0.4
0.2
0
500-1000
1001-1500
1501-2000
2001-2500
Cars Weight Category (Kg)

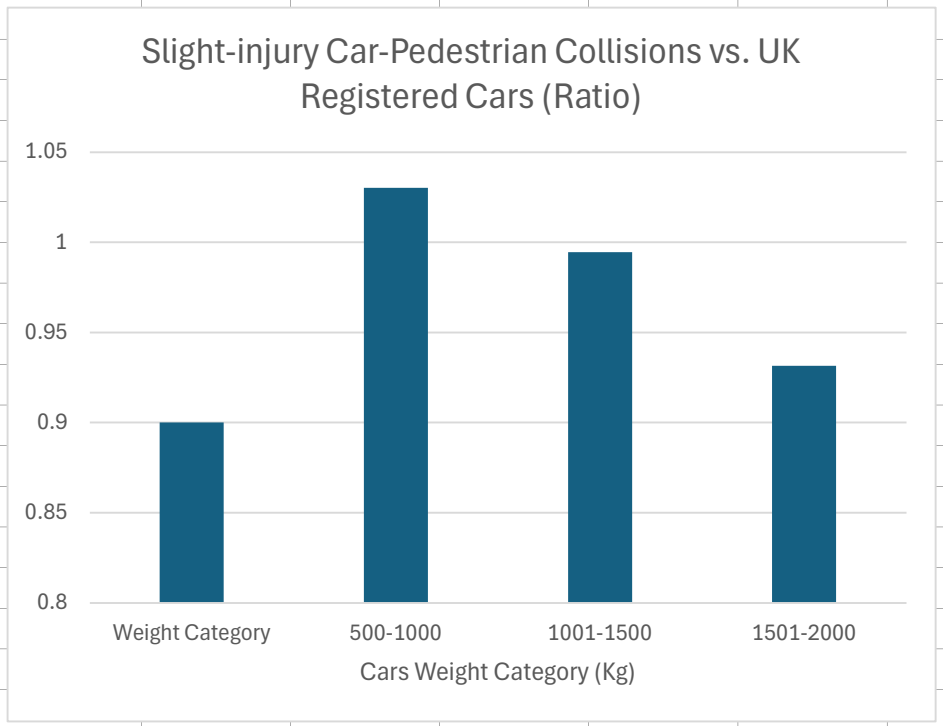
## CARS-Pedestrian (no bike)

| | Frequency of slight-injury collisions | | | | | 5 years |
|---|---|---|---|---|---|---|
| **Weight Category** | **2019** | **2020** | **2021** | **2022** | **2023** | **Total** |
| 500-1000 | 700 | 429 | 461 | 566 | 535 | 2690 |
| 1001-1500 | 4580 | 3255 | 3518 | 4287 | 4081 | 19721 |
| 1501-2000 | 1606 | 1116 | 1208 | 1511 | 1564 | 7004 |
| 2001-2500 | 192 | 131 | 164 | 230 | 259 | 977 |
| **Total** | **7,078** | **4,931** | **5,350** | **6,594** | **6,439** | **30,392** |

| | Percentage (%) of slight-injury collisions | | | | | 5 years |
|---|---|---|---|---|---|---|
| **Weight Category** | **2019** | **2020** | **2021** | **2022** | **2023** | **Total** |
| 500-1000 | 9.9% | 8.7% | 8.6% | 8.6% | 8.3% | 8.9% |
| 1001-1500 | 64.7% | 66.0% | 65.8% | 65.0% | 63.4% | 64.9% |
| 1501-2000 | 22.7% | 22.6% | 22.6% | 22.9% | 24.3% | 23.0% |
| 2001-2500 | 2.7% | 2.7% | 3.1% | 3.5% | 4.0% | 3.2% |
| **Total** | **1** | **1** | **1** | **1** | **1** | **1** |

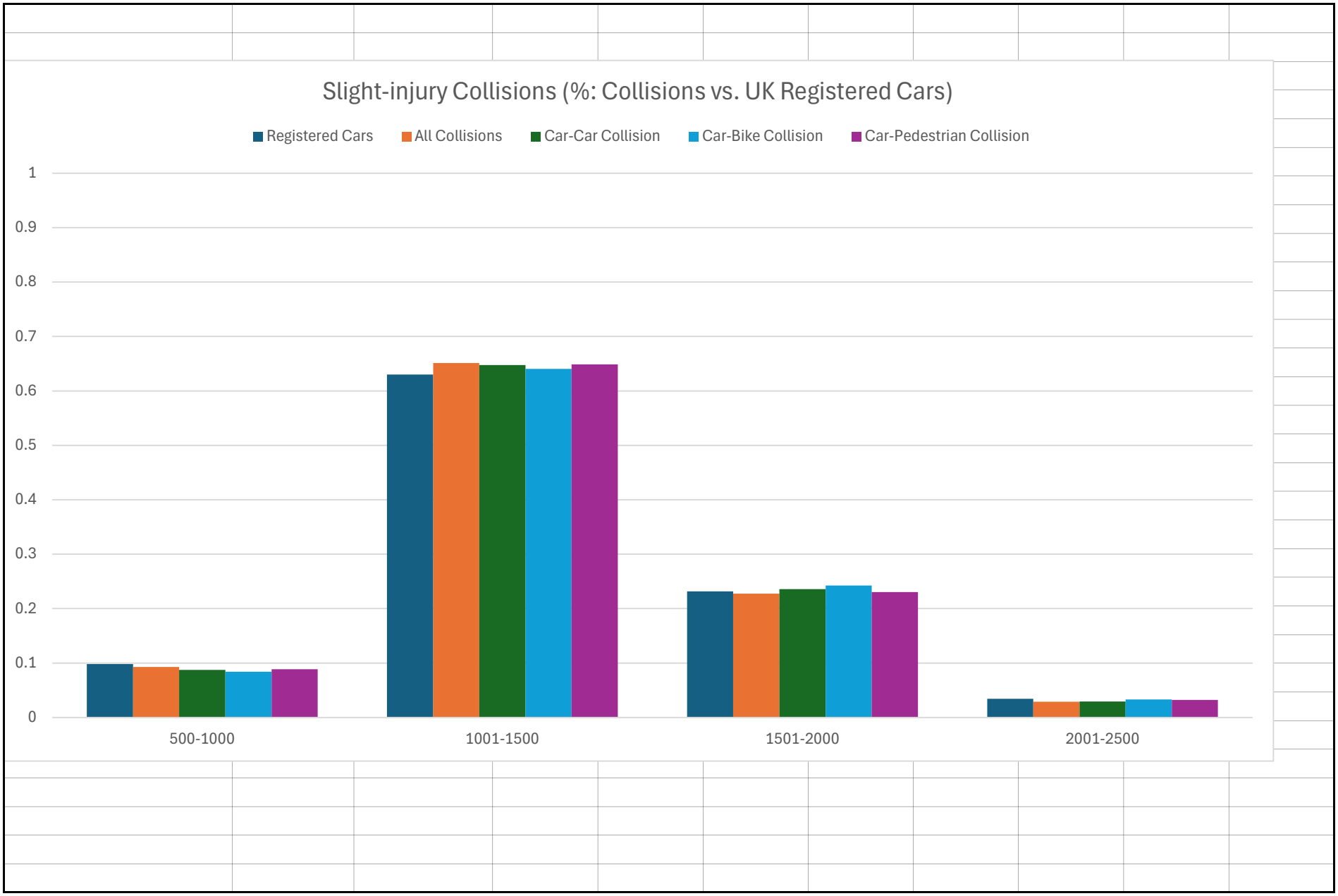
| Weight Category | Registered Cars | Car-Pedestrian Collision | Ratio |
|---|---|---|---|
| 500-1000 | 9.8% | 8.9% | 0.90 |
| 1001-1500 | 63.0% | 64.9% | 1.03 |
| 1501-2000 | 23.2% | 23.0% | 0.99 |
| 2001-2500 | 3.4% | 3.2% | 0.93 |

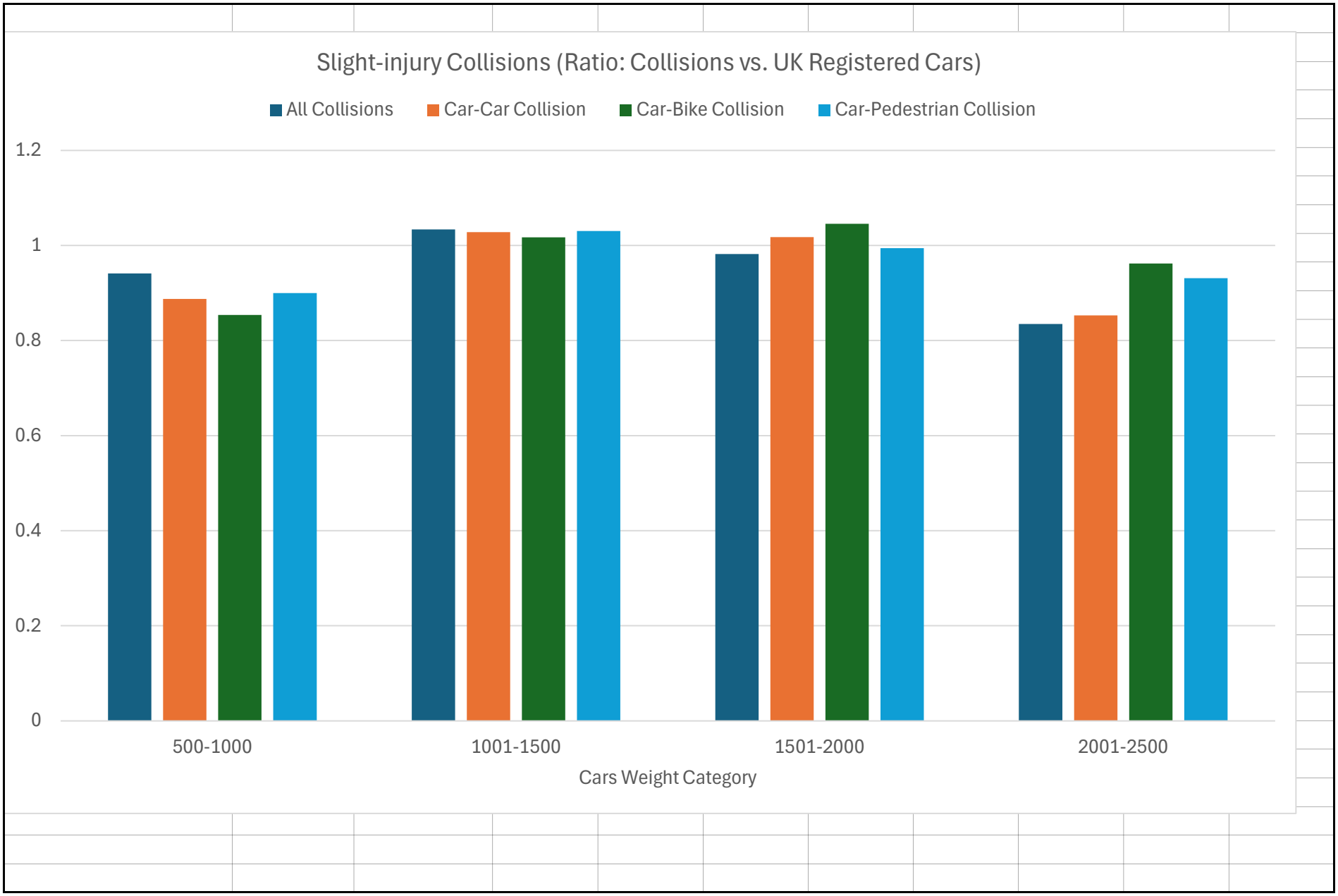

Slight-inury Collisions vs. UK Registered Cars (%)
Car-Pedestrian Collision
Registered Cars
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
500-1000
1001-1500
1501-2000
2001-2500
Cars Weight Category (Kg)


Slight-injury Car-Pedestrian Collisions vs. UK Registered Cars (Ratio)
1.05
1
0.95
0.9
0.85
0.8
Weight Category
500-1000
1001-1500
1501-2000
Cars Weight Category (Kg)

| Weight Category | Registered Cars | All Collisions | Car-Car Collision | Car-Bike Collision | Car-Pedestrian Collision |
|---|---|---|---|---|---|
| 500-1000 | 9.8% | 9.3% | 8.7% | 8.4% | 8.9% |
| 1001-1500 | 63.0% | 65.1% | 64.8% | 64.1% | 64.9% |
| 1501-2000 | 23.2% | 22.8% | 23.6% | 24.2% | 23.0% |
| 2001-2500 | 3.4% | 2.9% | 2.9% | 3.3% | 3.2% |

| Weight Category | All Collisions | Car-Car Collision | Car-Bike Collision | Car-Pedestrian Collision |
|---|---|---|---|---|
| 500-1000 | 0.94 | 0.89 | 0.85 | 0.90 |
| 1001-1500 | 1.03 | 1.03 | 1.02 | 1.03 |
| 1501-2000 | 0.98 | 1.02 | 1.05 | 0.99 |
| 2001-2500 | 0.83 | 0.85 | 0.96 | 0.93 |


Slight-injury Collisions (%: Collisions vs. UK Registered Cars)
Registered Cars
All Collisions
Car-Car Collision
Car-Bike Collision
Car-Pedestrian Collision
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
500-1000
1001-1500
1501-2000
2001-2500


Slight-injury Collisions (Ratio: Collisions vs. UK Registered Cars)
All Collisions
Car-Car Collision
Car-Bike Collision
Car-Pedestrian Collision
1.2
1
0.8
0.6
0.4
0.2
0
500-1000
1001-1500
1501-2000
2001-2500
Cars Weight Category

| ALL COLLISIONS | | | |
|---|---|---|---|
| **Weight Category** | **Registered Cars** | **All Fatal Collisions** | **Fatal Collisions per year per 1 million cars** |
| 500-1000 | 3181363.40 | 54.03 | 16.98 |
| 1001-1500 | 20375332.00 | 411.00 | 20.17 |
| 1501-2000 | 7496203.80 | 160.61 | 21.43 |
| 2001-2500 | 1115990.60 | 29.29 | 26.25 |

| **Weight Category** | **Registered Cars** | **All Serious Collisions** | **Serious Collisions per year per 1 million cars** |
|---|---|---|---|
| 500-1000 | 3181363 | 939.56 | 295.33 |
| 1001-1500 | 20375332 | 6499.31 | 318.98 |
| 1501-2000 | 7496204 | 2283.78 | 304.66 |
| 2001-2500 | 1115991 | 311.71 | 279.31 |

| **Weight Category** | **Registered Cars** | **All Slight Collisions** | **Slight Collisions per year per 1 million cars** |
|---|---|---|---|
| 500-1000 | 3181363.40 | 4119.38 | 1294.85 |
| 1001-1500 | 20375332.00 | 28967.48 | 1421.69 |
| 1501-2000 | 7496203.80 | 10125.29 | 1350.72 |
| 2001-2500 | 1115990.60 | 1281.17 | 1148.02 |

| Weight Category | Fatal Collisions per year per 1 million cars | Serious Collisions per year per 1 million cars | Slight Collisions per year per 1 million cars |
|---|---|---|---|
| 500-1000 | 16.98 | 295.33 | 1294.85 |
| 1001-1500 | 20.17 | 318.98 | 1421.69 |
| 1501-2000 | 21.43 | 304.66 | 1350.72 |
| 2001-2500 | 26.25 | 279.31 | 1148.02 |

| Weight Category | Total collisions in this weight class | Fatal Collisions % for this weight class | Serious Collisions % for this weight class | Slight Collisions % for this weight class | Total |
|---|---|---|---|---|---|
| 500-1000kg | 5112.97 | 1.06% | 18.38% | 80.57% | 100.00% |
| 1001-1500kg | 35877.79 | 1.15% | 18.12% | 80.74% | 100.00% |
| 1501-2000kg | 12569.68 | 1.28% | 18.17% | 80.55% | 100.00% |
| 2001-2500kg | 1622.17 | 1.81% | 19.22% | 78.98% | 100.00% |

| CAR-CAR COLLISIONS | | | |
|---|---|---|---|
| **Weight Category** | **Registered Cars** | **Car-Car Fatal Collision** | **Fatal Collisions per year per 1 million cars** |
| 500-1000 | 3181363.40 | 15.33 | 4.82 |
| 1001-1500 | 20375332.00 | 100.12 | 4.91 |
| 1501-2000 | 7496203.80 | 45.68 | 6.09 |
| 2001-2500 | 1115990.60 | 8.41 | 7.53 |

| **Weight Category** | **Registered Cars** | **Car-Car Serious Collisions** | **Serious Collisions per year per 1 million cars** |
|---|---|---|---|
| 500-1000 | 3181363 | 250.40 | 78.71 |
| 1001-1500 | 20375332 | 1693.50 | 83.12 |
| 1501-2000 | 7496204 | 639.56 | 85.32 |
| 2001-2500 | 1115991 | 81.50 | 73.03 |

| Weight Category | Registered Cars | Car-Car Slight Collisions | Slight Collisions per year per 1 million cars |
|---|---|---|---|
| 500-1000 | 3181363 | 1510.45 | 474.78 |
| 1001-1500 | 20375332 | 11204.98 | 549.93 |
| 1501-2000 | 7496204 | 4079.61 | 544.22 |
| 2001-2500 | 1115991 | 509.06 | 456.15 |

| Weight Category | Fatal CC Collisions per year per 1 million cars | Serious CC Collisions per year per 1 million cars | Slight CC Collisions per year per 1 million cars |
|---|---|---|---|
| 500-1000 | 4.82 | 78.71 | 474.78 |
| 1001-1500 | 4.91 | 83.12 | 549.93 |
| 1501-2000 | 6.09 | 85.32 | 544.22 |
| 2001-2500 | 7.53 | 73.03 | 456.15 |

| Weight Category | Total collisions in this weight class | Fatal CC Collisions % for this weight class | Serious Collisions % for this weight class | Slight Collisions % for this weight class | Total |
|---|---|---|---|---|---|
| 500-1000 | 1776.17 | 0.86% | 14.10% | 85.04% | 100.00% |
| 1001-1500 | 12998.60 | 0.77% | 13.03% | 86.20% | 100.00% |
| 1501-2000 | 4764.84 | 0.96% | 13.42% | 85.62% | 100.00% |
| 2001-2500 | 598.97 | 1.40% | 13.61% | 84.99% | 100.00% |

CAR-BIKE COLLISIONS

| Weight Category | Registered Cars | Car-Bike Fatal Collision | Fatal Collisions per year per 1 million cars |
|---|---|---|---|
| 500-1000 | 3181363.40 | 2.10 | 0.66 |
| 1001-1500 | 20375332.00 | 26.50 | 1.30 |
| 1501-2000 | 7496203.80 | 9.40 | 1.25 |
| 2001-2500 | 1115990.60 | 1.40 | 1.25 |

| Weight Category | Registered Cars | Car-Bike Serious Collisions | Serious Collisions per year per 1 million cars |
|---|---|---|---|
| 500-1000 | 3181363.40 | 162.23 | 50.99 |
| 1001-1500 | 20375332.00 | 1187.15 | 58.26 |
| 1501-2000 | 7496203.80 | 437.12 | 58.31 |
| 2001-2500 | 1115990.60 | 64.10 | 57.44 |

| Weight Category | Registered Cars | Car-Bike Slight Collisions | Slight Collisions per year per 1 million cars |
|---|---|---|---|
| 500-1000 | 3181363.40 | 535.88 | 168.44 |
| 1001-1500 | 20375332.00 | 4086.88 | 200.58 |
| 1501-2000 | 7496203.80 | 1545.59 | 206.18 |
| 2001-2500 | 1115990.60 | 211.75 | 189.74 |

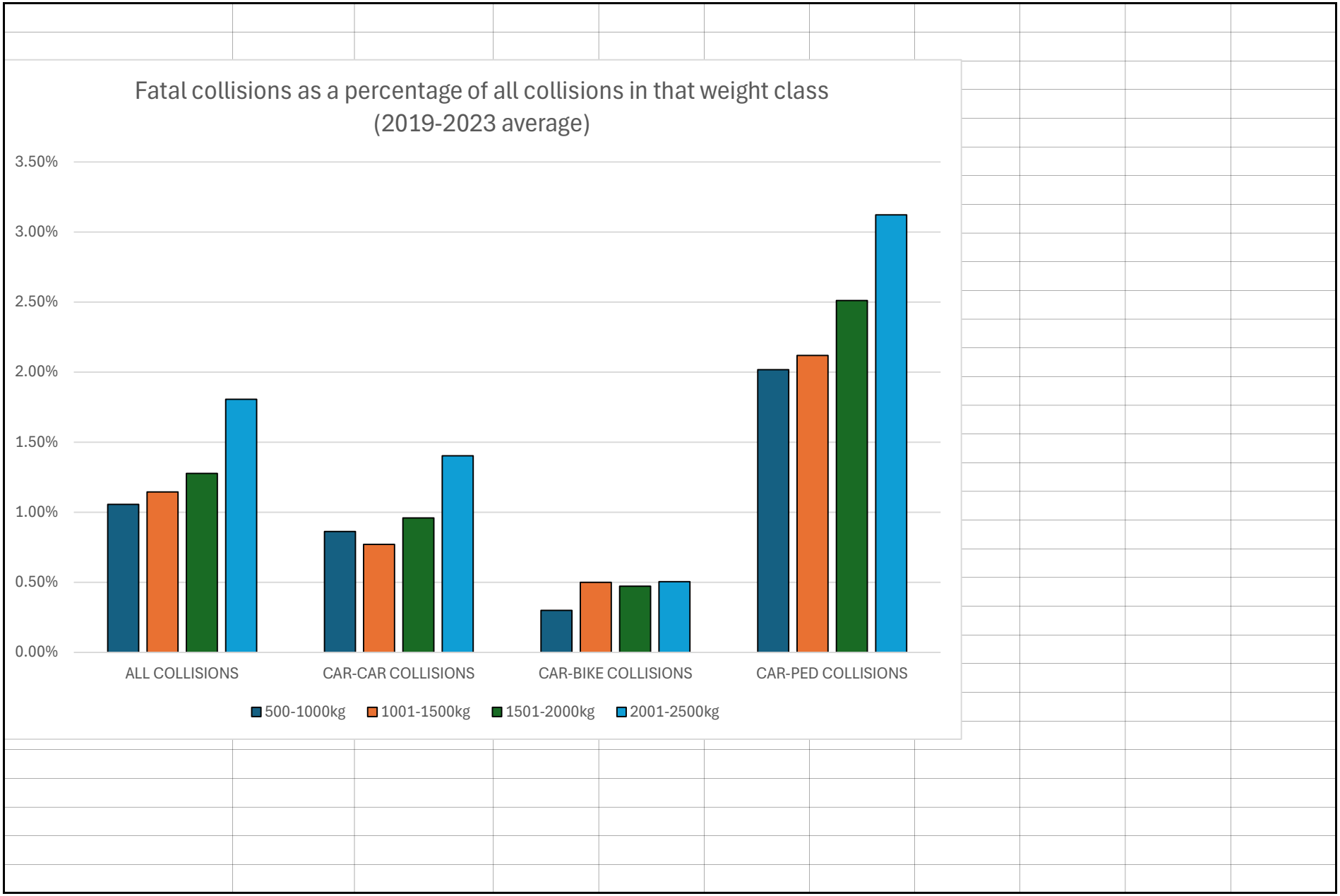
| Weight Category | Fatal CB Collisions per year per 1 million cars | Serious CB Collisions per year per 1 million cars | Slight CB Collisions per year per 1 million cars |
|---|---|---|---|
| 500-1000 | 0.66 | 50.99 | 168.44 |
| 1001-1500 | 1.30 | 58.26 | 200.58 |
| 1501-2000 | 1.25 | 58.31 | 206.18 |
| 2001-2500 | 1.25 | 57.44 | 189.74 |

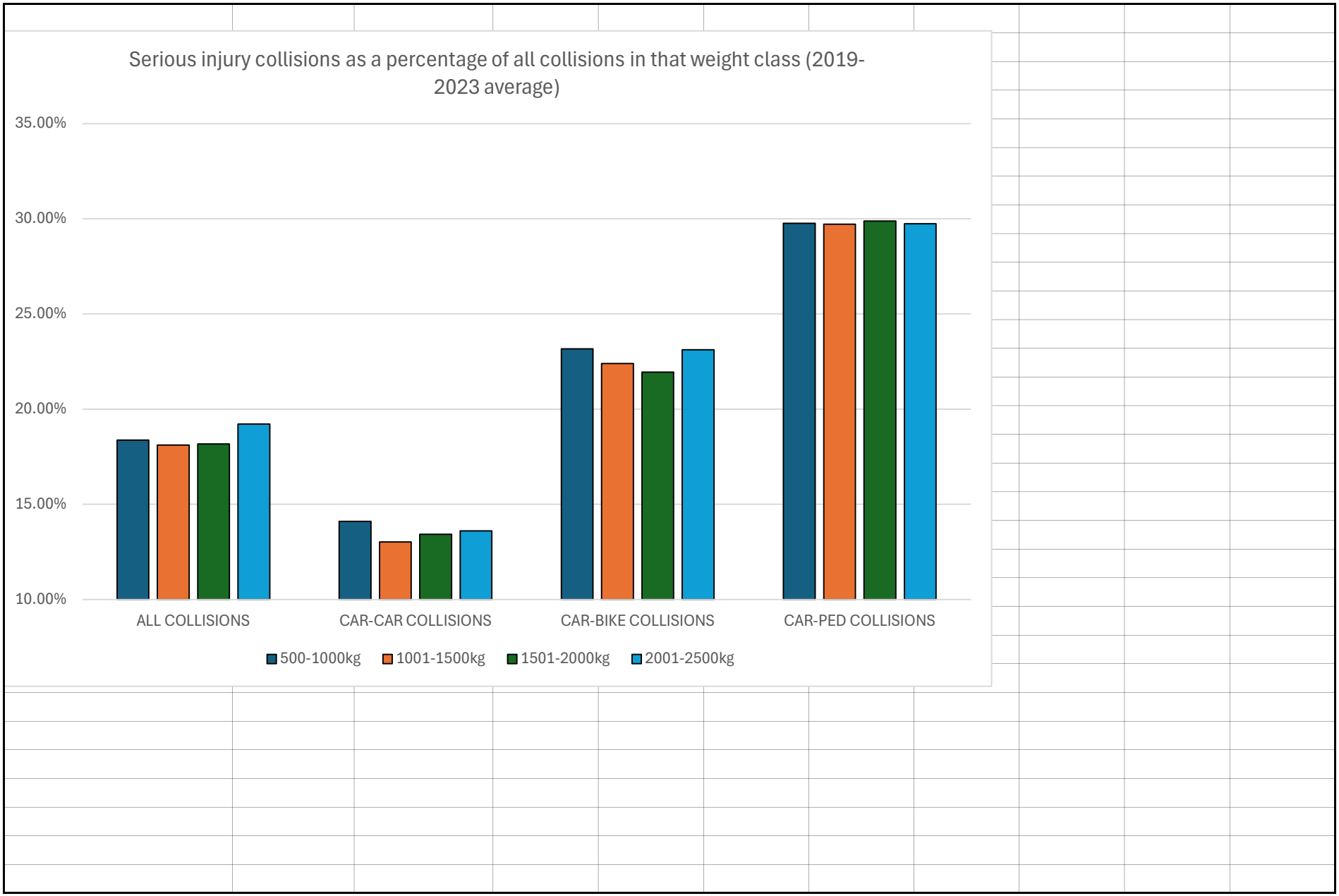
| Weight Category | Total collisions in this weight class | Fatal CB Collisions % for this weight class | Serious Collisions % for this weight class | Slight Collisions % for this weight class | Total |
|---|---|---|---|---|---|
| 500-1000 | 700.22 | 0.30% | 23.17% | 76.53% | 100.00% |
| 1001-1500 | 5300.53 | 0.50% | 22.40% | 77.10% | 100.00% |
| 1501-2000 | 1992.11 | 0.47% | 21.94% | 77.59% | 100.00% |
| 2001-2500 | 277.25 | 0.50% | 23.12% | 76.38% | 100.00% |

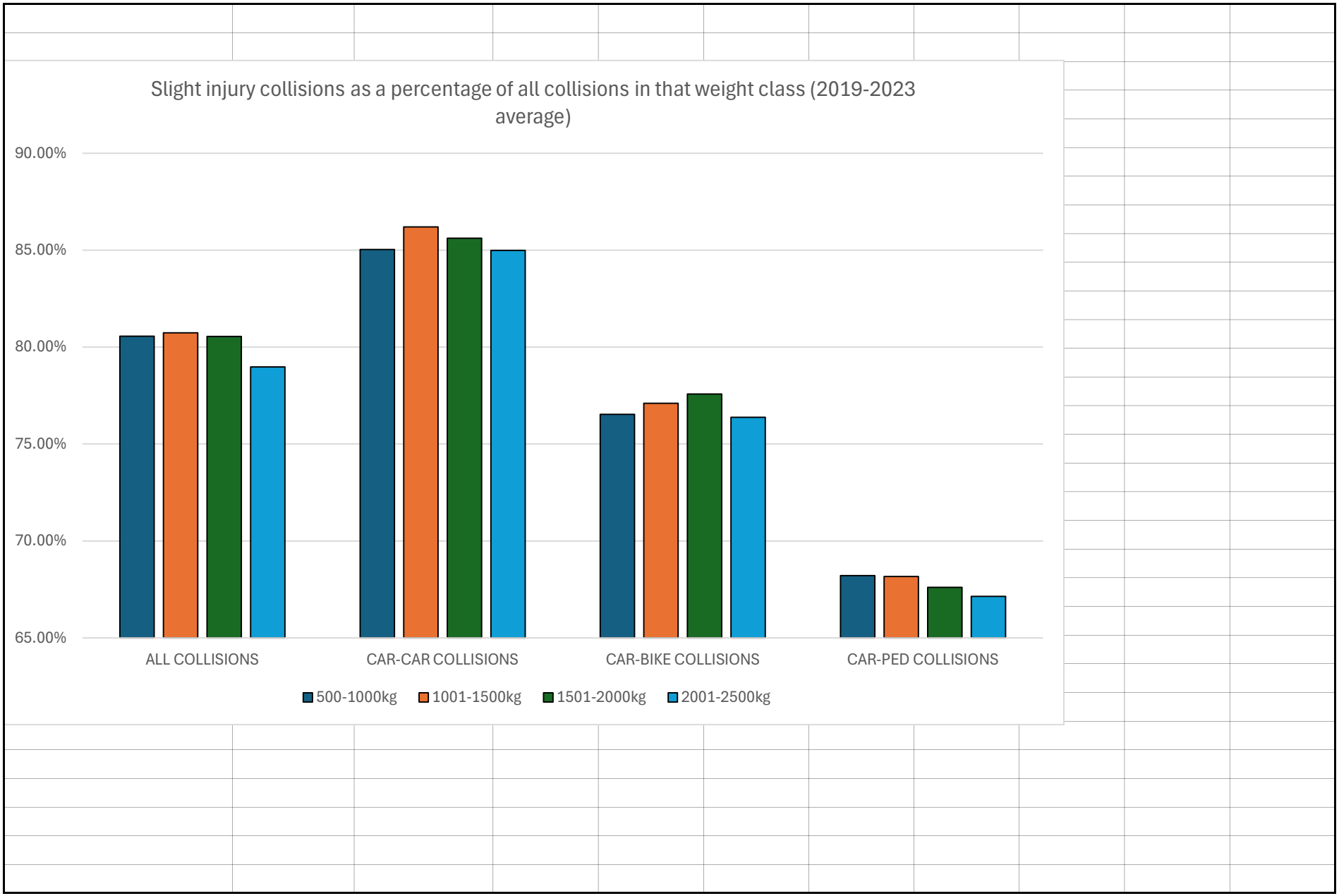
| CAR-PED COLLISIONS | | | |
|---|---|---|---|
| **Weight Category** | **Registered Cars** | **Car-Ped Fatal Collision** | **Fatal Collisions per year per 1 million cars** |
| 500-1000 | 3181363.40 | 15.91 | 5.00 |
| 1001-1500 | 20375332.00 | 122.58 | 6.02 |
| 1501-2000 | 7496203.80 | 52.03 | 6.94 |
| 2001-2500 | 1115990.60 | 9.08 | 8.14 |
| | | | |
| **Weight Category** | **Registered Cars** | **Car-Ped Serious Collisions** | **Serious Collisions per year per 1 million cars** |
| 500-1000 | 3181363.40 | 234.73 | 73.78 |
| 1001-1500 | 20375332.00 | 1718.86 | 84.36 |
| 1501-2000 | 7496203.80 | 619.10 | 82.59 |
| 2001-2500 | 1115990.60 | 86.51 | 77.52 |
| | | | |
| **Weight Category** | **Registered Cars** | **Car-Ped Slight Collisions** | **Slight Collisions per year per 1 million cars** |
| 500-1000 | 3181363.40 | 538.00 | 169.11 |
| 1001-1500 | 20375332.00 | 3944.17 | 193.58 |
| 1501-2000 | 7496203.80 | 1400.84 | 186.87 |
| 2001-2500 | 1115990.60 | 195.32 | 175.02 |

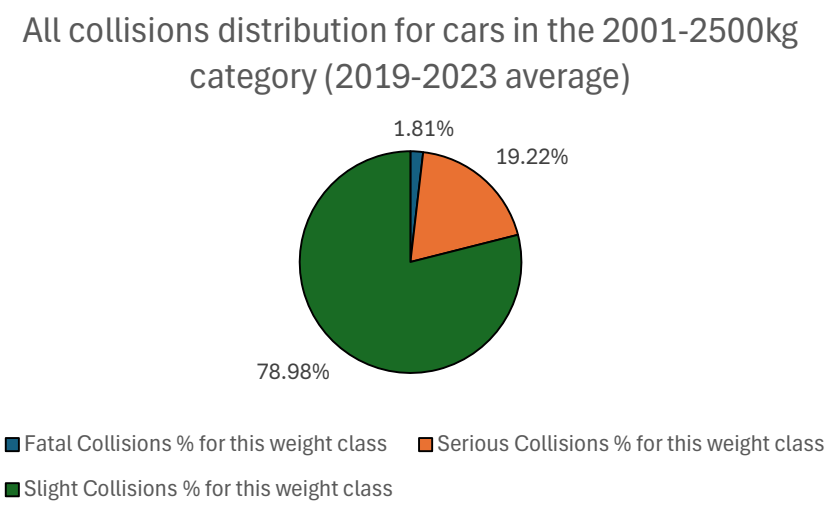
| Weight Category | Fatal CP Collisions per year per 1 million cars | Serious CP Collisions per year per 1 million cars | Slight CP Collisions per year per 1 million cars |
|---|---|---|---|
| 500-1000 | 5.00 | 73.78 | 169.11 |
| 1001-1500 | 6.02 | 84.36 | 193.58 |
| 1501-2000 | 6.94 | 82.59 | 186.87 |
| 2001-2500 | 8.14 | 77.52 | 175.02 |

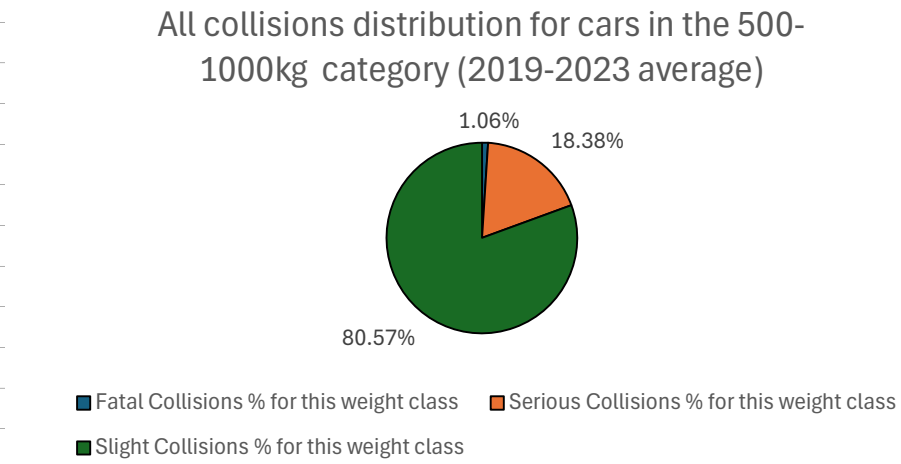
| Weight Category | Total collisions in this weight class | Fatal CP Collisions % for this weight class | Serious Collisions % for this weight class | Slight Collisions % for this weight class | Total |
|---|---|---|---|---|---|
| 500-1000 | 788.63 | 2.02% | 29.76% | 68.22% | 100.00% |
| 1001-1500 | 5785.61 | 2.12% | 29.71% | 68.17% | 100.00% |
| 1501-2000 | 2071.98 | 2.51% | 29.88% | 67.61% | 100.00% |
| 2001-2500 | 290.91 | 3.12% | 29.74% | 67.14% | 100.00% |

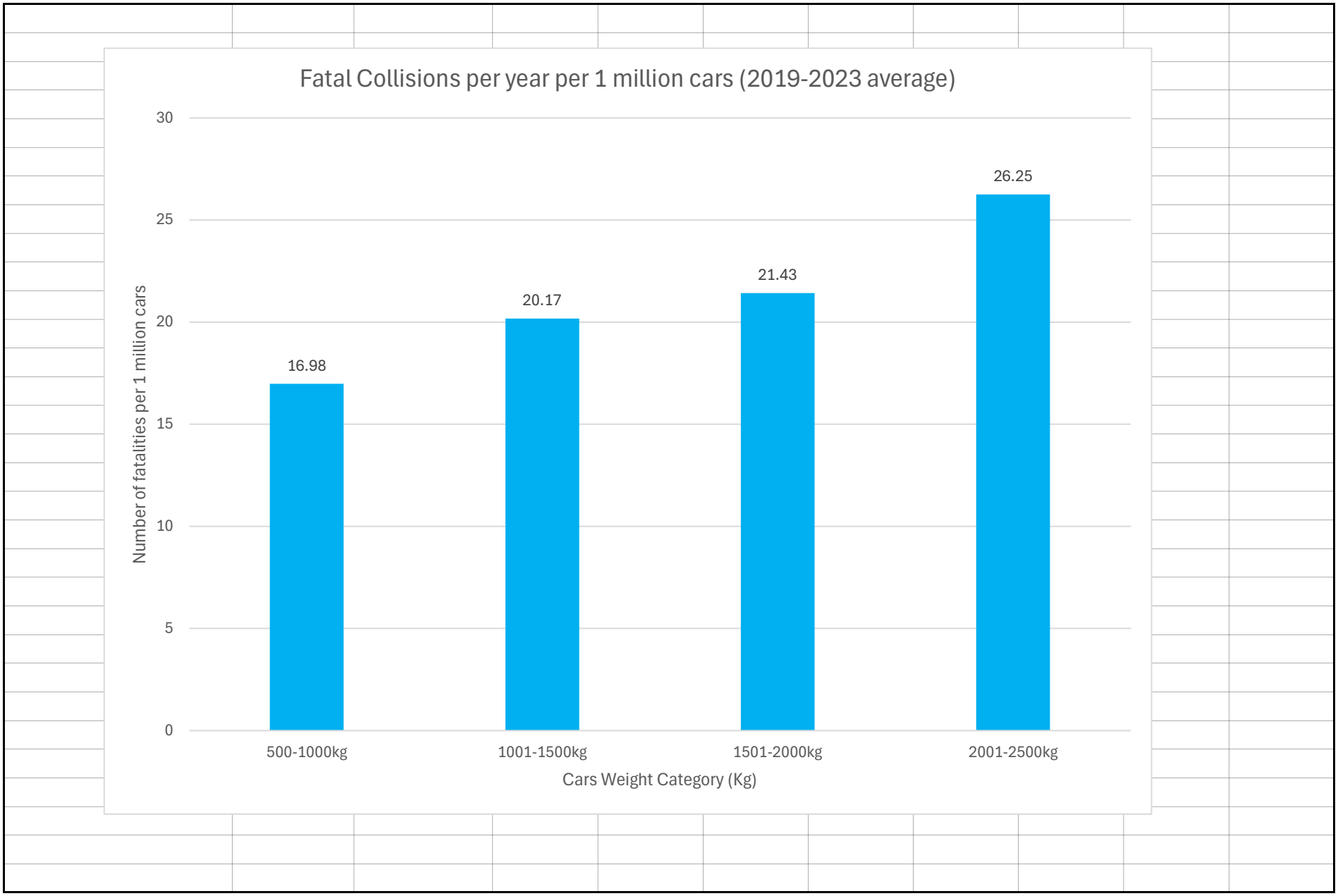

Fatal collisions as a percentage of all collisions in that weight class
(2019-2023 average)
3.50%
3.00%
2.50%
2.00%
1.50%
1.00%
0.50%
0.00%
ALL COLLISIONS
CAR-CAR COLLISIONS
CAR-BIKE COLLISIONS
CAR-PED COLLISIONS
500-1000kg
1001-1500kg
1501-2000kg
2001-2500kg

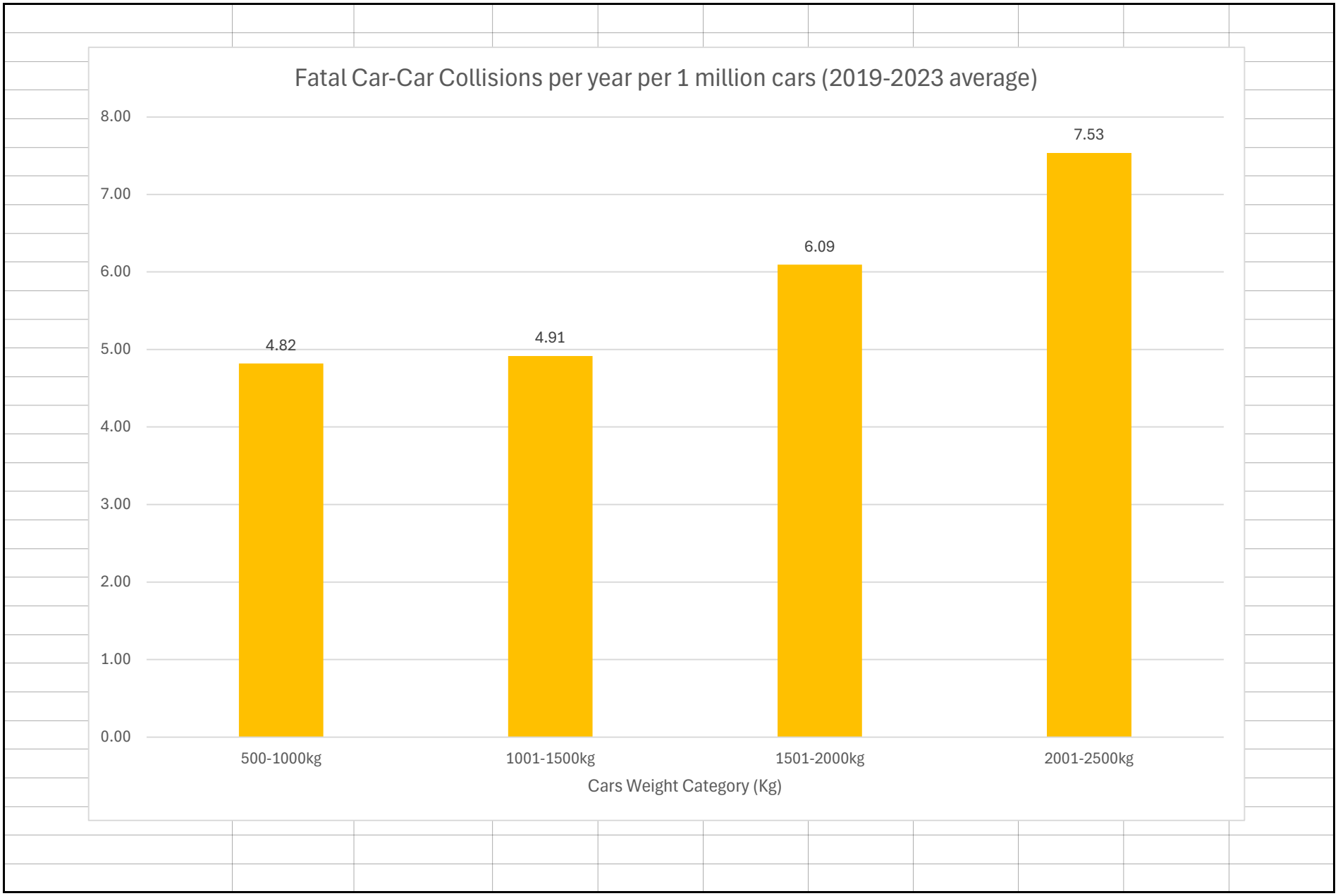

Serious injury collisions as a percentage of all collisions in that weight class (2019-2023 average)
35.00%
30.00%
25.00%
20.00%
15.00%
10.00%
ALL COLLISIONS
CAR-CAR COLLISIONS
CAR-BIKE COLLISIONS
CAR-PED COLLISIONS
500-1000kg
1001-1500kg
1501-2000kg
2001-2500kg

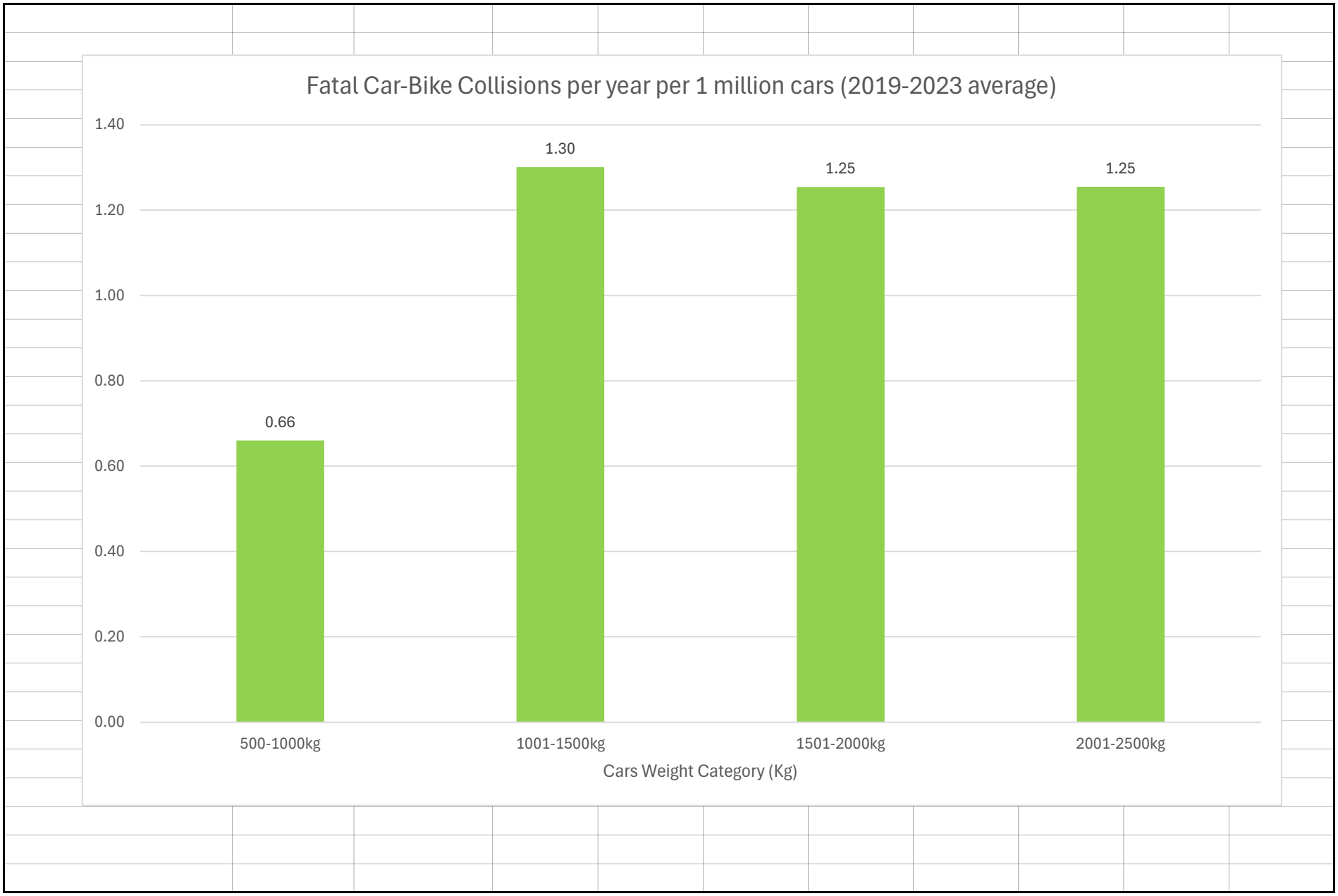

Slight injury collisions as a percentage of all collisions in that weight class (2019-2023 average)
90.00%
85.00%
80.00%
75.00%
70.00%
65.00%
ALL COLLISIONS
CAR-CAR COLLISIONS
CAR-BIKE COLLISIONS
CAR-PED COLLISIONS
500-1000kg
1001-1500kg
1501-2000kg
2001-2500kg

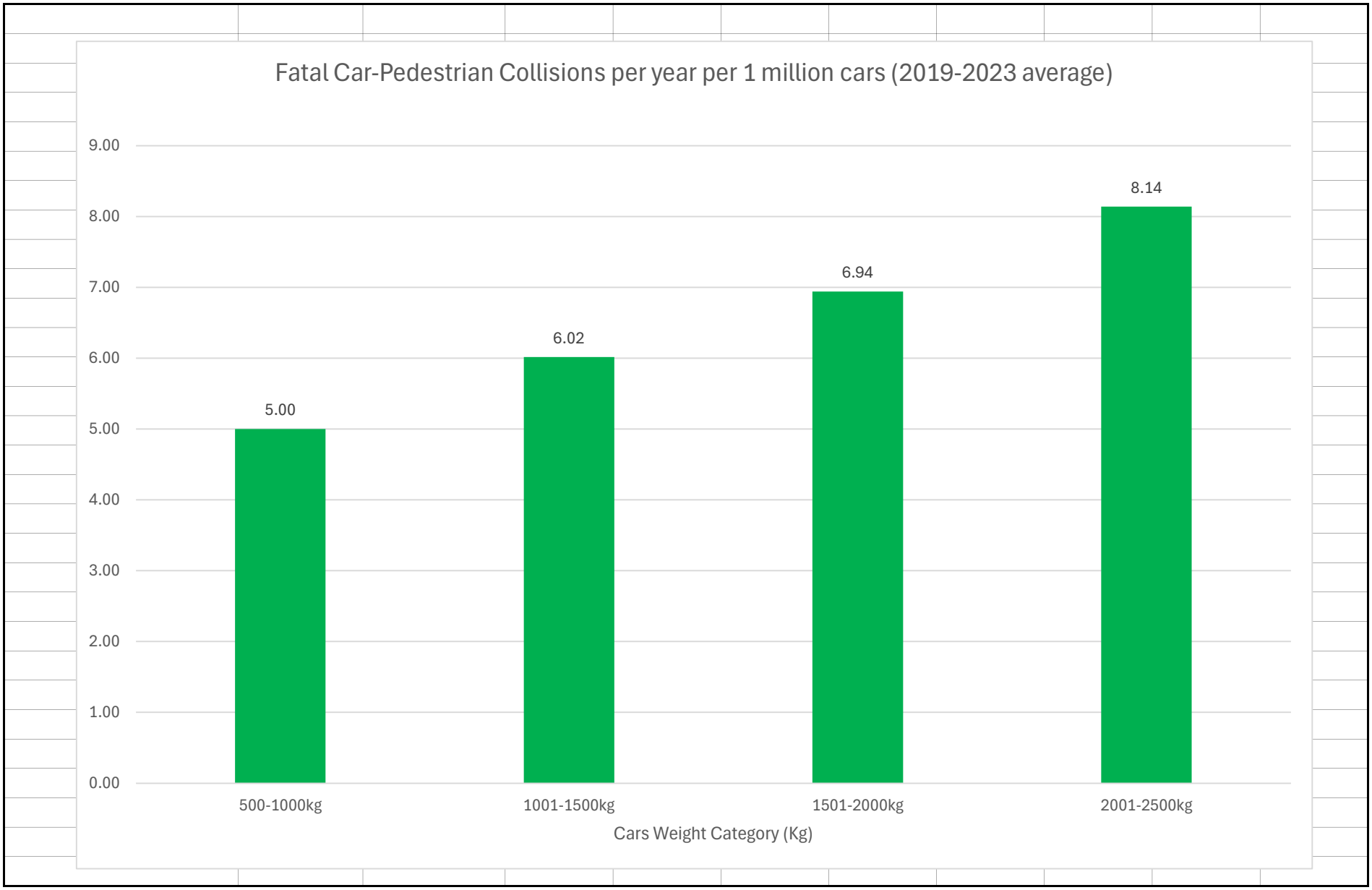

All collisions distribution for cars in the 2001-2500kg category (2019-2023 average)
1.81%
19.22%
78.98%
Fatal Collisions % for this weight class
Serious Collisions % for this weight class
Slight Collisions % for this weight class


All collisions distribution for cars in the 500-1000kg category (2019-2023 average)
1.06%
18.38%
80.57%
Fatal Collisions % for this weight class
Serious Collisions % for this weight class
Slight Collisions % for this weight class


Fatal Collisions per year per 1 million cars (2019-2023 average)
Number of fatalities per 1 million cars
30
25
20
15
10
5
0
16.98
20.17
21.43
26.25
500-1000kg
1001-1500kg
1501-2000kg
2001-2500kg
Cars Weight Category (Kg)


Fatal Car-Car Collisions per year per 1 million cars (2019-2023 average)
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
4.82
4.91
6.09
7.53
500-1000kg
1001-1500kg
1501-2000kg
2001-2500kg
Cars Weight Category (Kg)


Fatal Car-Bike Collisions per year per 1 million cars (2019-2023 average)
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0.66
1.30
1.25
1.25
500-1000kg
1001-1500kg
1501-2000kg
2001-2500kg
Cars Weight Category (Kg)


Fatal Car-Pedestrian Collisions per year per 1 million cars (2019-2023 average)
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
5.00
6.02
6.94
8.14
500-1000kg
1001-1500kg
1501-2000kg
2001-2500kg
Cars Weight Category (Kg)