Chicago Injury Accidents

2016-2021

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Table of Contents/Introduction

Business Task 3

Trends 4-6

What does this mean? 7

Actions to take 8

Appendices/files 10-13

Business Task

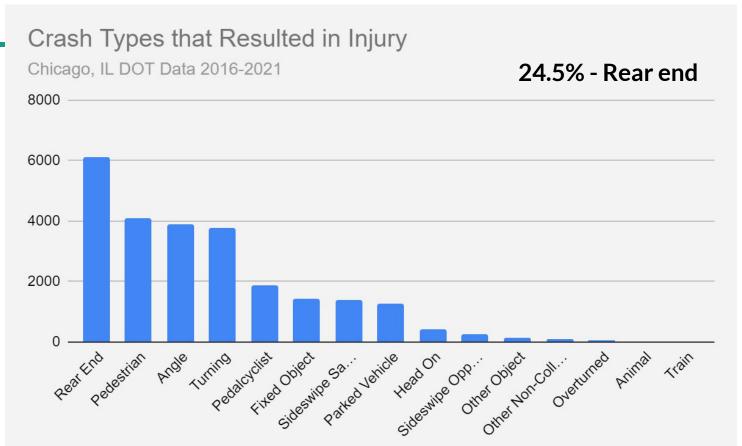
• Current accident trends in Chicago, IL area

How to reduce these trends or claims?

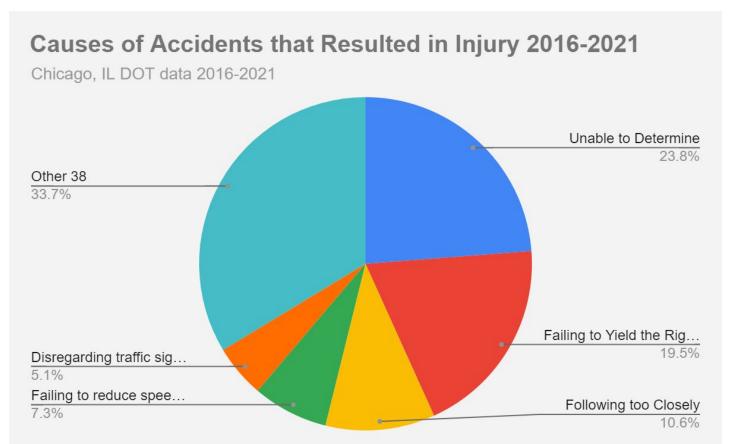
Current General Accident Trends

- Chicago DOT data 2016-2021
- Over 670k accidents that police responded to in this timeframe
- Roughly 13.5% resulted in at least one injury
- Over 24k were confirmed

Specific Trends



Specific Trends Cont.



A3

What does this mean?

• \$695 million in injuries from 2016 - 2021

Actions to take

- Continue current acts of tracking customer driving data through smartphone apps, OBD2
 recording sensors, etc.
- Using this data, mark outliers and adjust premium accordingly
- Continue to analyze data for other trends
- Lobby for certain police department changes

Questions?

Appendix A1

<u>Traffic Crashes - Crashes | City of Chicago</u>

https://docs.google.com/document/d/1FYOt3fTPWw DEMKfDC7hugF7fxAIE7eYXejf9GvU6WA/edit?usp=sharing

Please see google doc for proof of work and change log.

Appendix A2

Rear End - 6099 Pedestrian - 4087

Angle - 3896

Turning - 3784

Pedalcyclist - 1882

Fixed Object - 1437

Sideswipe Same Dir - 1410

Parked Vehicle - 1258

Head On - 414

Sideswipe Opposite Dir - 266

Other Object - 139

Other Non-Collision - 94

Overturned - 48

Animal - 11

Train - 7

Appendix A3

MOTORCYCLE ADVANCING LEGALLY ON RED LIGHT - 1

UNABLE TO DETERMINE - 5905 FAILING TO YIELD RIGHT-OF-WAY - 4833 FOLLOWING TOO CLOSELY - 2639 FAILING TO REDUCE SPEED TO AVOID CRASH - 1823 DISREGARDING TRAFFIC SIGNALS - 1272 NOT APPLICABLE - 860 IMPROPER TURNING/NO SIGNAL - 814 DISREGARDING STOP SIGN - 645 IMPROPER LANE USAGE - 550 IMPROPER OVERTAKING/PASSING - 549 DRIVING SKILLS/KNOWLEDGE/EXPERIENCE - 537 WEATHER - 512 OPERATING VEHICLE IN ERRATIC. RECKLESS. CARELESS. NEGLIGENT OR AGGRESSIVE MANNER - 497 PHYSICAL CONDITION OF DRIVER - 471 **EXCEEDING AUTHORIZED SPEED LIMIT - 369** UNDER THE INFLUENCE OF ALCOHOL/DRUGS (USE WHEN ARREST IS EFFECTED)311 VISION OBSCURED (SIGNS, TREE LIMBS, BUILDINGS, ETC.) - 295 **IMPROPER BACKING - 276** DISTRACTION - FROM INSIDE VEHICLE - 264 EXCEEDING SAFE SPEED FOR CONDITIONS - 247 DRIVING ON WRONG SIDE/WRONG WAY - 212 **FOUIPMENT - VEHICLE CONDITION - 196** DISTRACTION - FROM OUTSIDE VEHICLE - 179 DISREGARDING OTHER TRAFFIC SIGNS - 117 EVASIVE ACTION DUE TO ANIMAL. OBJECT. NONMOTORIST - 84 **DISREGARDING ROAD MARKINGS - 59** CELL PHONE USE OTHER THAN TEXTING - 56 ROAD CONSTRUCTION/MAINTENANCE - 56 HAD BEEN DRINKING (USE WHEN ARREST IS NOT MADE) - 43 TURNING RIGHT ON RED - 34 **DISREGARDING YIELD SIGN - 28** ANIMAL - 24 ROAD ENGINEERING/SURFACE/MARKING DEFECTS - 24 DISTRACTION - OTHER ELECTRONIC DEVICE (NAVIGATION DEVICE, DVD PLAYER, ETC.) - 20 TEXTING - 20 BICYCLE ADVANCING LEGALLY ON RED LIGHT - 6 PASSING STOPPED SCHOOL BUS - 4

12

Files

R history log on google drive - https://drive.google.com/file/d/19b-fKOc5B0EHI22iqTfQJvFHotwoKeW6/view?usp=sharing

Outline with all info - https://docs.google.com/document/d/1FYOt3fTPWw DEMKfDC7hugF7fxAIE7eYXejf9GvU6WA/edit?usp=sharing

Spreadsheet for graphs - https://docs.google.com/spreadsheets/d/1ph3xRLcAN_zGK7awmtlTyneN5fE1tzl1qMOZh559Hk8/edit?usp=sharing