ACCIDENT MISHAPS IN USA Total accident Total years Avg Wind Avg Humidity (%) Avg Visibility(Mi) Avg Temp (F) Avg pressure (In) Avg time (sec) speed(mph) 61.66 64.83 8 7.73M0.03 29.54 7.69 9.09 Accidents at Crossing Accidents at Traffic_Signal Accidents at Junction Accident at Railway Years 2.57M (7.39%) o.87M (11.31%) 1.14M (14.8%) 207M (0.87%) 2016 2017 2018 6.85M (88....) 6.58M (85.2%) 7.16M (92.61%) 7.66M (99.1...) 2019 Severity of the accident Weather condition during accident Accidents at Station 3M 2020 True o.2M — 6M 2M 2021 4M 1M 2022 2M 0M Fair Mostly Cloudy Clear Partly 2023 0M └─ False 7.53M 4 Cloudy Cloudy The number of accidents that occurs in a day Cities and their accident rates 0.2M 0.1M 0M Monday 0.0M Dallas Miami Houston Charlotte Orlando Austin Los Angeles Period of accident Year of accident 2.0M Night 2.37M (30.77%) 1.5M 1.0M 0.5M 0.0M Day 5.33M (69.23%) 2018 2020 2021 2019 Time of accident 0.6M 0.4M 0.2M0.0M 5 20 10 15

SUMMARY

With 7.73M accidents in 8 years, the USA has an average of about 966,250 accidents in a year which is 80,521 accidents in a month and 2,684 accidents in a day. At 6,156,981, the severity of 2 (moderate impact) had the highest Severity rate accounting for 79% of the total accident, and was 9,039.60% higher than 1, which had the lowest Count of Severity at 67,366.

There is little effect of weather on the rate of accidents as the highest number of accidents occurred in fair weather and average weather is 61.66 F which is normal weather range. With a windspeed of 7mph which means a light breeze, there is no effect of wind on the rate of accidents.

Humidity affects the rate of accidents as average humidity is 64.8% which is above average and slightly high.

Accidents happen in split seconds as the average accident time is 0.03 secs.

2,850,000 accidents occurred in crossings, junctions, traffic signals, railways and stations and that is about 36.8% accidents.

Miami followed by Houston has the highest accident rate and more accident happens on a weekday, especially on Friday.

2022 has the highest number of accidents with 22.8% of total accidents occurring that year.

The higher the number of people out of their houses, the more accidents occur hence, 69.2% of the total accidents occur in the day as against 30.8% of accidents that occur at night. There is a continuous increase in accident rate from 3 am to 7 am which is the peak accident time. There is a sharp decrease at 9 am and 10 am and another continuous till 4pm. It is safe to say that accident peak time is divided into two parts; 6-7am and 4-5pm.