**DATA EXPLORATION AND R**

**Question 1) Load the 1950-2019\_actual\_tornadoes.csv dataset into an R dataframe; display a few records.**

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**Question 2)** **Display the range and related summary statistics for the length and width of tornados (Boxplots)**

**Length of Tornado-**

Graphical user interface, application

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**Width of Tornado-**

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**Question 3)** **Create a table (crosstab) showing the mean number of injuries and fatalities for each tornado magnitude**

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**Question 4)** **Plot the loss for each tornado magnitude**

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**Question 5) Which 3 states have the highest injuries and fatalities?**

**Highest Injuries:**

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The highest injuries are in the following states: Texas-9353, Alabama- 8569, Oklahoma- 5994

**Highest Fatalities:**

Graphical user interface, application

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The highest fatalities are in the following states: Alabama- 653, Texas- 586, Mississippi- 463

**Question 6)** **Is there a trend in the number of tornados from 1950 through 2019?**

Yes, there is variation from 1950 to 2019, however the number of tornados has grown quickly since 1950, with some years seeing a drop and others seeing an increase.

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**Reference: -**

1. ***Quick-R: Boxplots*.** [**https://www.statmethods.net/graphs/boxplot.html**](https://www.statmethods.net/graphs/boxplot.html) **. Accessed 25 Sep. 2021.**
2. **“Determine the Size of a Data Frame.” *R-Craft*, 9 June 2020,** [**https://www.r-craft.org/r-news/determine-the-size-of-a-data-frame/**](https://www.r-craft.org/r-news/determine-the-size-of-a-data-frame/) **. Accessed 25 Sep. 2021.**
3. <https://www.spc.noaa.gov/wcm/data/1950-2019_actual_tornadoes.csv>