Data Report

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Source of Data: FEMA. (2020). US Natural Disaster Declarations (Version 3) [CSV file]. Retrieved from https://www.kaggle.com/headsortails/us-natural-disaster-declarations.

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Data

Description

This dataset includes a record for every federal emergency or disaster declared by the Federal Emergency Management Agency (FEMA) since 1953.

Data Set Calculation

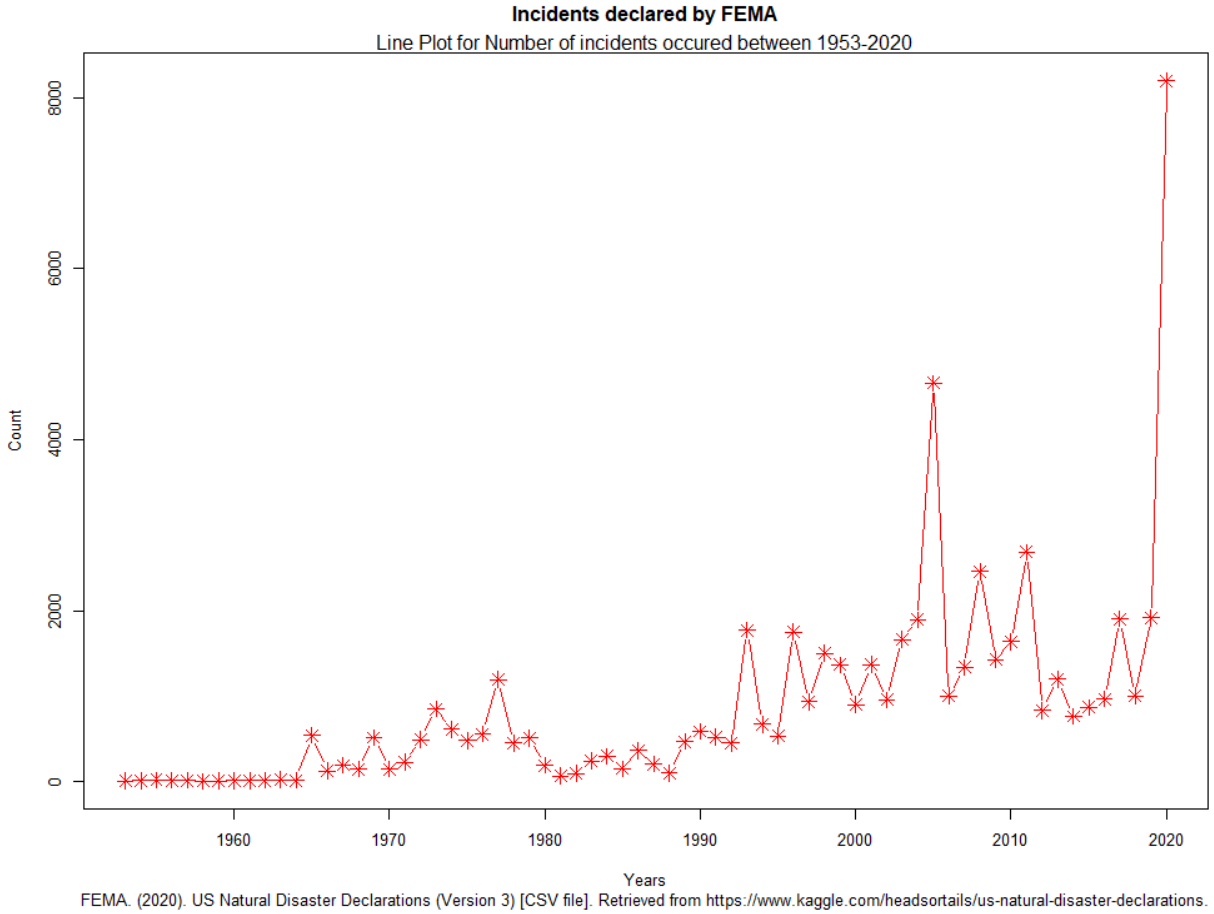
*Calculation = (# of Columns * 4) / (# of Rows / 100) =*
*(22*4)*(59181/100) = 52079.28*

str() Output

```
> str(fema)
'data.frame':   59181 obs. of  22 variables:
 $ fema_declaration_string   : Factor w/ 4379 levels "DR-1-GA","DR-100-MO",..: 1 1110 1219 1330 1988 2096 2318 2207 2429
 112 ...
 $ disaster_number           : int  1 2 3 4 5 6 8 7 9 11 ...
 $ state                     : Factor w/ 59 levels "AK","AL","AR",..: 13 51 22 27 32 27 16 23 51 36 ...
 $ declaration_type          : Factor w/ 3 levels "DR","EM","FM": 1 1 1 1 1 1 1 1 1 1 ...
 $ declaration_date          : Factor w/ 3739 levels "1953-05-02T04:00:00Z",..: 1 2 3 4 5 6 7 7 8 9 ...
 $ fy_declared               : int  1953 1953 1953 1953 1953 1953 1953 1953 1953 1953 ...
 $ incident_type             : Factor w/ 23 levels "Biological","Chemical",..: 19 19 9 19 9 19 9 19 9 7 ...
 $ declaration_title         : Factor w/ 2058 levels "101 Ranch Fire",..: 1742 1743 496 1742 524 1742 496 1742 496 535
 ...
 $ ih_program_declared       : int  0 0 0 0 0 0 0 0 0 0 ...
 $ ia_program_declared       : int  1 1 1 1 1 1 1 1 1 1 ...
 $ pa_program_declared       : int  1 1 1 1 1 1 1 1 1 1 ...
 $ hm_program_declared       : int  1 1 1 1 1 1 1 1 1 1 ...
 $ incident_begin_date       : Factor w/ 3282 levels "1953-05-02T04:00:00Z",..: 1 2 3 4 5 6 7 7 8 9 ...
 $ incident_end_date         : Factor w/ 3122 levels "1953-05-02T04:00:00Z",..: 1 2 3 4 5 6 7 7 8 9 ...
 $ disaster_closeout_date    : Factor w/ 126 levels "1995-04-13T04:00:00Z",..: NA NA NA NA NA NA NA NA NA NA ...
 $ fips                      : int  13000 48000 22000 26000 30000 26000 19000 25000 48000 33000 ...
 $ place_code                : int  0 0 0 0 0 0 0 0 0 0 ...
 $ designated_area           : Factor w/ 2766 levels "Abbeville (County)",..: 2136 2136 2136 2136 2136 2136 2136 2136 213
6 2136 ...
 $ declaration_request_number: int  53013 53003 53005 53004 53006 53007 53008 53009 53010 53011 ...
 $ hash                      : Factor w/ 59106 levels "0000b69a756031393d6d1498b6ee6f0c",..: 11012 45647 26839 32385 2069
2 48912 52297 24872 15896 31034 ...
 $ last_refresh              : Factor w/ 367 levels "2019-07-02T21:38:29Z",..: 7 7 7 7 7 7 7 7 7 7 ...
 $ id                        : Factor w/ 59181 levels "5d1bceafd5b39c032f2602bf",..: 1 5 3 2 9 4 6 11 8 7 ...
```

Descriptive Plots

Single-Dimension Plots



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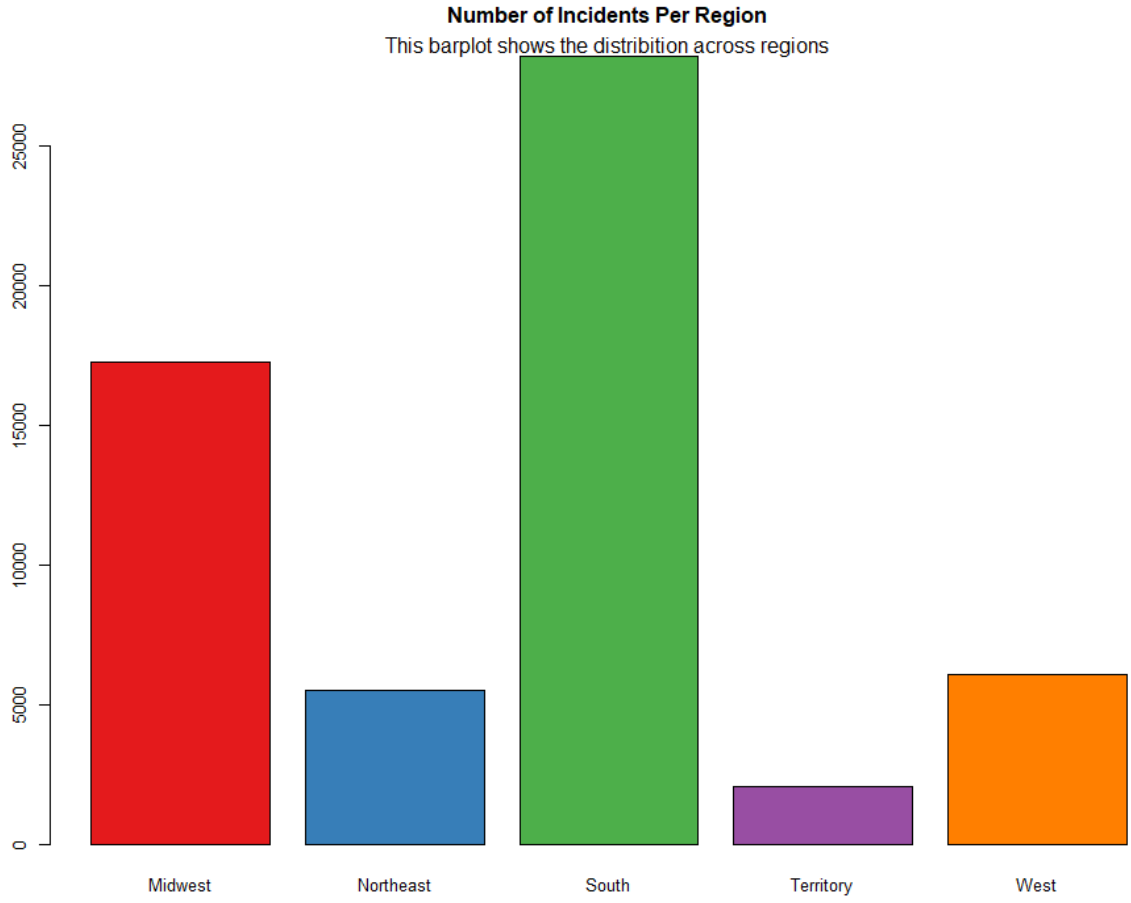

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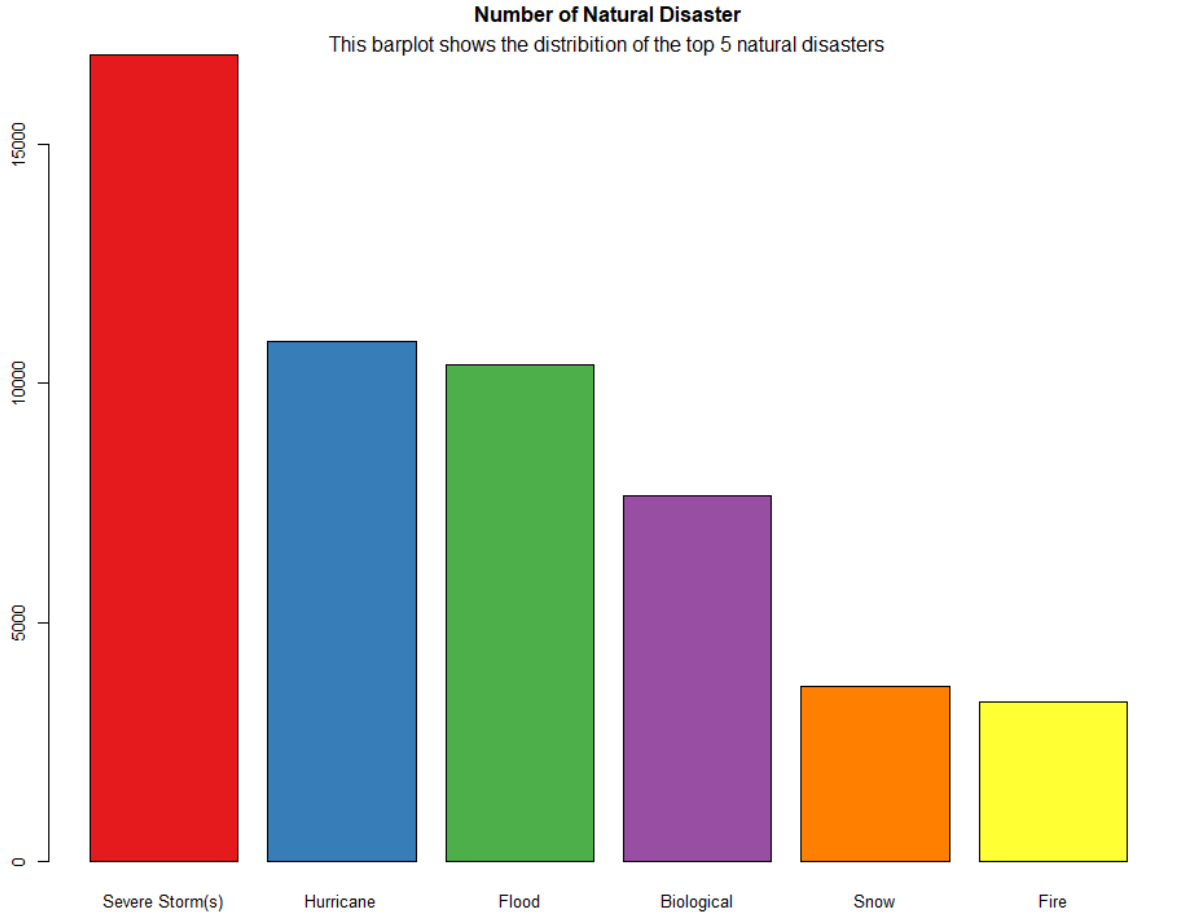

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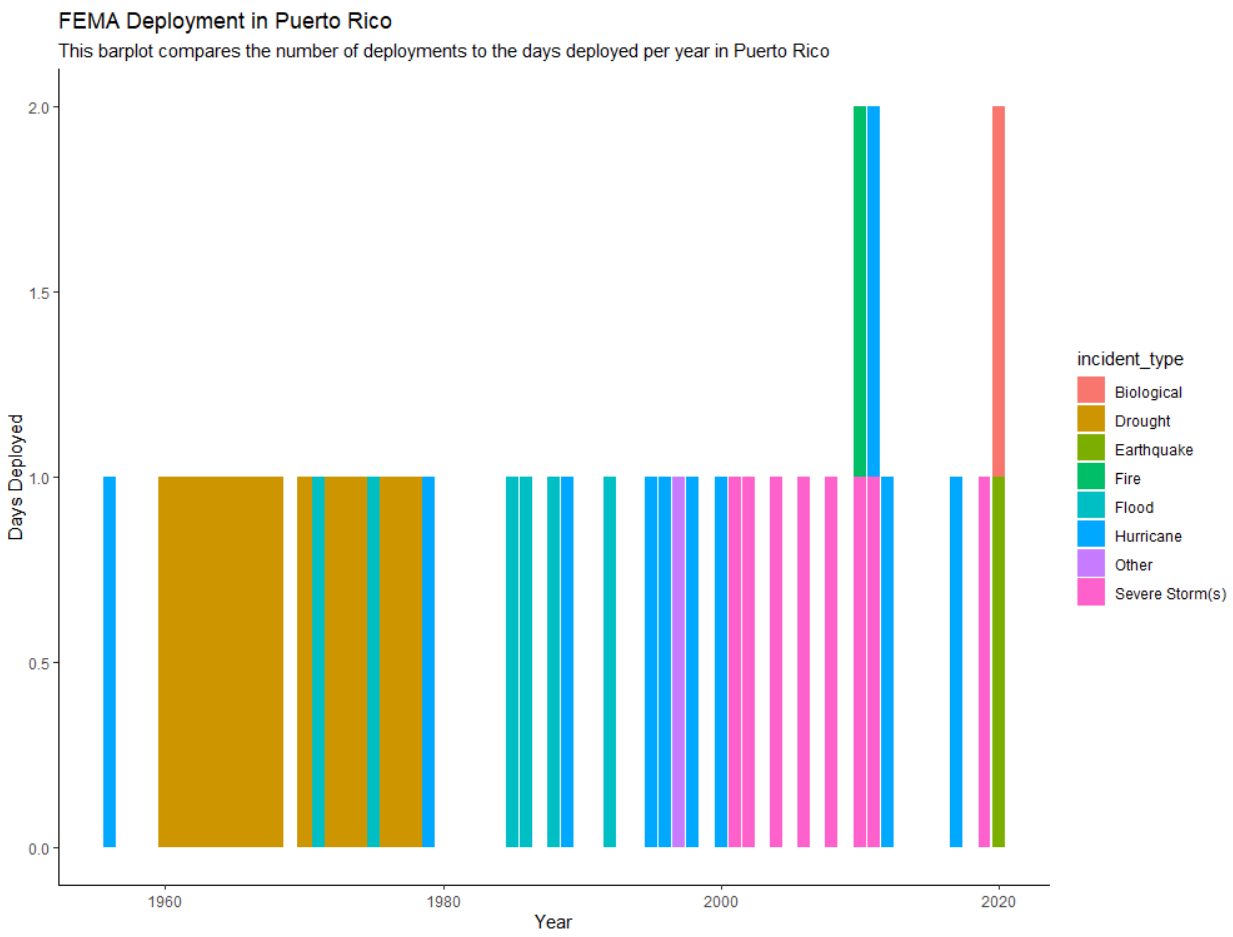
Multidimension Plot