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Storm Data :Course Project 2

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Anjali Singh

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An analysis of Impact of Weather Events on Public Health and Economy in the United States

Synopsis

The project involves exploring the storm data provided as a part of the course project 2. The data comes from U.S. National Oceanic and Atmospheric Administration's (NOAA) storm database. The database tracks characteristics of major storms and weather events in the United States, including when and where they occur, as well as estimates of any fatalities, injuries, and property damage. The goal in this project is analyse the impact of different weather events can have on public health and economy. The analysis will involve downloading,reading and per processing the data.The data base has 902297 record spreading across 1950 -2011.In the earlier years of the database there are generally fewer events recorded, most likely due to a lack of good records. More recent years have more complete records The data used for analysis will be subset of the data provided as not every variable will used in the analysis. We had two basic question to look for

1)Which event caused the most deaths/injuries in US

A- Tornado was a major killer

2)Which event that caused maximum property and crop loss.

A- Floods and Droughts caused major Damage here

3 Data Processing and Libraries

3.1 Load the data and remove necessary data

```
library(stringr)
library(ggplot2)
require(gridExtra)
#This will setup the directory for the assignent, It will create directory, download the f
iles from the web
# and will unzip the files to be use for the analysis
mainDir<-getwd()
subDir<-"Course5Assignment2"
if (file.exists(subDir)){
  setwd(file.path(mainDir, subDir))
} else {
  dir.create(file.path(mainDir, subDir))
  setwd(file.path(mainDir, subDir))

}
#download the file and unzip into created folder
```