DESCRIPTION OF DOCUMENTATION FOR:
GLEBUS (2017)
"MORAL HAZARD AND THE NFIP'S EFFORTS TO REDUCE REPETITIVE LOSS PROPERTY CLAIMS"

The data management and analysis for the paper were conducted using R version 3.3.1 "Bug in Your Hair" using RStudio version 1.0.136 It has been written to run on a Windows or Mac operating system. In addition to the base R package, several packages are used. These can be seen at the top of the Rmd document loaded in the first code chunk.

The paper was knitted to pdf using the elsevier article format contained in the rticles package. Knitting to pdf requires a LaTEX installation on your computer, though you will not need to write any LaTEX code directly.

The documentation is organized into three main directories (listed in order of importance for reproduction of results):

• Source code: Here you will find the Rmd file that reproduces the entire paper, along with all auxiliary files created in process of knitting the pdf. Also, datasets produced by the Data Cleaning final and used in production of tables and graphs of the final paper are also located here.

• Processing and analysis: contains all data called by the Rmd file in analysis, as well as supplementary code that is called by the source command in the Rmd file. The Supplementary code folder contains script that is called by the Rmd code and do not need to be run directly by the user. This code does the data cleaning necessary to put the data into analysis form. It is excluded from the Rmd file only to keep the document cleaner. The importable data folder contains the original data files modified to the minimal extent necessary to import them into R. All further processing is done in the code.

• Original Data and Metadata: contains the data that was collected in the most original form possible. For the FEMA data received from Mary McGee, these files are as exactly as downloaded from the email exchange between her and Michael O'Hara. The FEMA data on the mitigation grant funds and disasters summary are as exactly downloaded from online. NOAA data used for property damage caused by natural disasters are included in separate files for each year. Nothing in this file is necessary to reproduce the results in the paper, but these files serve as a record for the data used in analysis.

To reproduce all results reported in paper:

- Copy the Documentation folder to your computer. Make sure to leave the folder structurally intact. The code has relative paths to the data and supplementary code that assume the data is in this folder structure. The Documentation folder can be moved or renamed as necessary, but everything else must remain unchanged.
- Open the Rmd file in the Source Code folder using R Studio. Make sure all required packages are installed.
- Run all code in the file. If the output format is changed to an R notebooks format, the chunks can be run one at a time to see individual results.
- Knit the file to elsevier article. (Knitting to other pdf formats should change only the formatting. You must have a LaTEX installation on your computer to do this.