Electronic Documentation of
Environmental Economics Senior Thesis
"Moral Hazard and the National Flood Insurance Program"
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Data Sources

I. NFIP

The data file *original_nfip.pdf* was obtained from:
2013 Congressional Research Service Report, *The National Flood Insurance Program: Status and Remaining Issues for Congress* (King, 2013)
pg. 16 – Table 3. NFIP Program Statistics

- "Total Payments Made to Policyholders" → nfip_nominal– copied values for 1978 – 2010 into excel, got rid of commas and dollar signs
- "Total number of Claims Paid" → nfipclaims – copied values for 1978 - 2010 into *importable_all.xlsx,* got rid of commas
- "Number of Policies in Force" → nfippolicies – copied values for 1978 - 2010 into *importable_all.xlsx,* got rid of commas

II. SBA

The data file *original_sba.xlsx* was obtained from:
Freedom of Information Act Request (FOIA Request # 2013-1202-1) (FOIA, 2013)

- "Total: Dollar" → sba_nominal – copied values for 1978 – 2010 into excel, got rid of commas and dollar signs

III. DRF

The data file *original_drf1978_1988.pdf* was obtained from:
2005 Congressional Research Service Report, *Federal Stafford Act Disaster Assistance: Presidential Declarations, Eligible Activities, and Funding* (Bea, 2005)
pg. 5 – Table 1. Disaster Relief Fund, FY1974-FY2005

- "Total Appropriations: Nominal" → drf_nominal – copied values for 1978 – 1988 into excel, excluded commas, multiplied by 1,000,000 (originally reported in millions)

The data file *original_drf1989_2010.pdf* was obtained from:
2011 Congressional Research Service Report, *Disaster Relief Funding and Emergency Supplemental Appropriations* (Lindsay and Murray, 2011)
pg. 11 – Table 1. Disaster Relief Fund

- "Total Nominal" → drf_nominal – copied values for 1989 – 2010 into excel, excluded commas, multiplied by 1,000,000 (originally reported in millions)

IV. Floods

The data file *original_floods.pdf* was obtained from http://www.fema.gov/significant-flood-events - I counted the number of flood events recorded for each year and input these values into *importable_all.xlsx* as the variable floods

V. Damages

The data file *original_damages.csv* was obtained from http://cred01.epid.ucl.ac.be:5317/?after=1978&before=2010&continent%5B%5D=Americas&region%5B%5D=Northern+America&iso%5B%5D=USA&dis_group%5B%5D=Natural&agg1=year&agg2=

Go to emdat.be, click on "Database" from menu across the top, click on "Advanced Search: Create your dataset"

Choose from Filter:

- Filter Time
  - "From year (inclusive)" – choose 1978
  - "Until year (inclusive)" – choose 2010
- Filter Location
  - "Continent" – choose Americas
  - "Regions" – choose Northern America
  - "Country" – choose United States
- Filter Disasters
  - "Disaster group" – choose Natural
  - leave "Disaster sub-groups", "Disaster types", and "Disaster sub-types" blank
- Aggregate By
  - Choose year

"Total damages('000 USD)" → damages_nominal –copied values into excel, multiplied by 1,000 (originally reported in thousands)

VI. CPI

Data file *original_cpi.pdf* was obtained from the Bureau of Labor Statistics' February 2014, *CPI Detailed Report*.

Pg. 107 - Table 27. Historical Consume Price Index for Urban Wage Earners and Clerical Workers (CPI_W): U. S. city average, all items - continued (Crawford and Church, 2014).

- "Annual avg." → CPI – copied values into excel, for years 2007 – 2010 rounded to one decimal place

Converted nfip_nominal, sba_nominal, drf_nominal, damages_nominal to real values using CPI (formula: *current item price = (base year price)*(current CPI)/(base year CPI)*)– recorded these real values in *importable_all.xlsx*

- All datasets combined based on year in *importable_all.xlsx*