



A Flood of FEMA Claims

R Shiny App Development
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Problem Statement

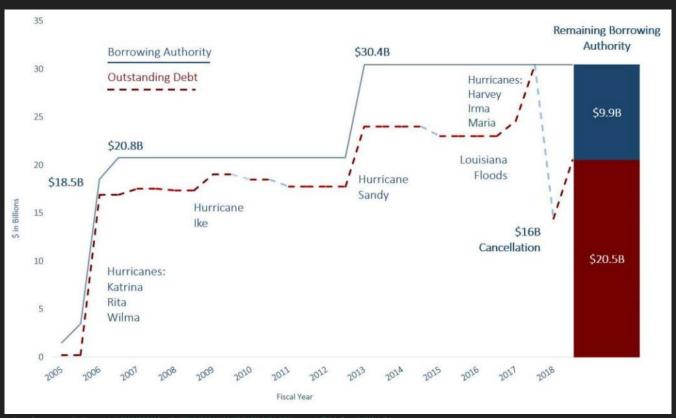
- FEMA is tasked with:
 - Creating 100 year floodplain,
 - Forcing people to buy flood insurance,
 - Reimbursement after floods



Problem Statement

Can FEMA stay financially afloat (pun intended)?

Problem Statement



Valid Questions

- Why have there been so many catastrophic storms in last 15 years?
- Is the flood insurance program sinking due to climate change or bad floodplains?
- Where is FEMA losing the most money?
- When has FEMA lost the most money?
- How quickly is FEMA currently losing money?

Valid Questions

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Dataset

- 30 years of Flood Claims
 - Example "I Joe lost 12,600 dollars in property damage on April, 4th 2012"
 - 2 Million Rows
- Key Columns:
 - Geographic:
 - State, County Code
 - Claims:
 - Property and Content Losses
- Additional Datasets
 - Census regions and divisions
 - FEMA Major Storms
 - FIPS County Codes

Target Audience & Business Proposition

- Audience
 - Flood Insurance Program Managers
 - Federal Agents (Senators, Congresswomen, etc.)
- Business Proposition
 - Saving money by shifting focus to few states rather than the whole country
 - Convincing federal agents to open their wallets

Links

- GitHub Repository:
 - https://github.com/Data-Science-Link/A Flood of FEMA FACTS
- Shiny App URL:
 - o https://data-science-link.shinyapps.io/fema_flood_claims/
- This Presentation
 - https://github.com/Data-Science-Link/A Flood of FEMA FACTS/tree/master/documentation