

# The Impact of Food Loss in Africa

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570

million

# Initial Research Question

Is there a relationship between temperature, food loss, and food waste from 2000 - 2018?



# Question Analysis

**Step One:** Locate primary and secondary data sources

**Step Two:** Determine the validity and completeness of the data

**Step Three:** After assessing areas where the data was incomplete or questionable, narrow the scope of the research question

**Step Four:** Find additional data sources

**Step Five:** Produce visualizations from data sources

**Step Six:** Analyze visualizations to tell the story of the data

# Revised Research Question

How has food loss in Africa changed over time?



# Sub-Research Questions

- How have these changes impacted the country's GDPs?
- How does a nation's fragility impact food loss within that country?



# Key Terms

Food Loss

Gross Domestic Product (GDP)

Fragility



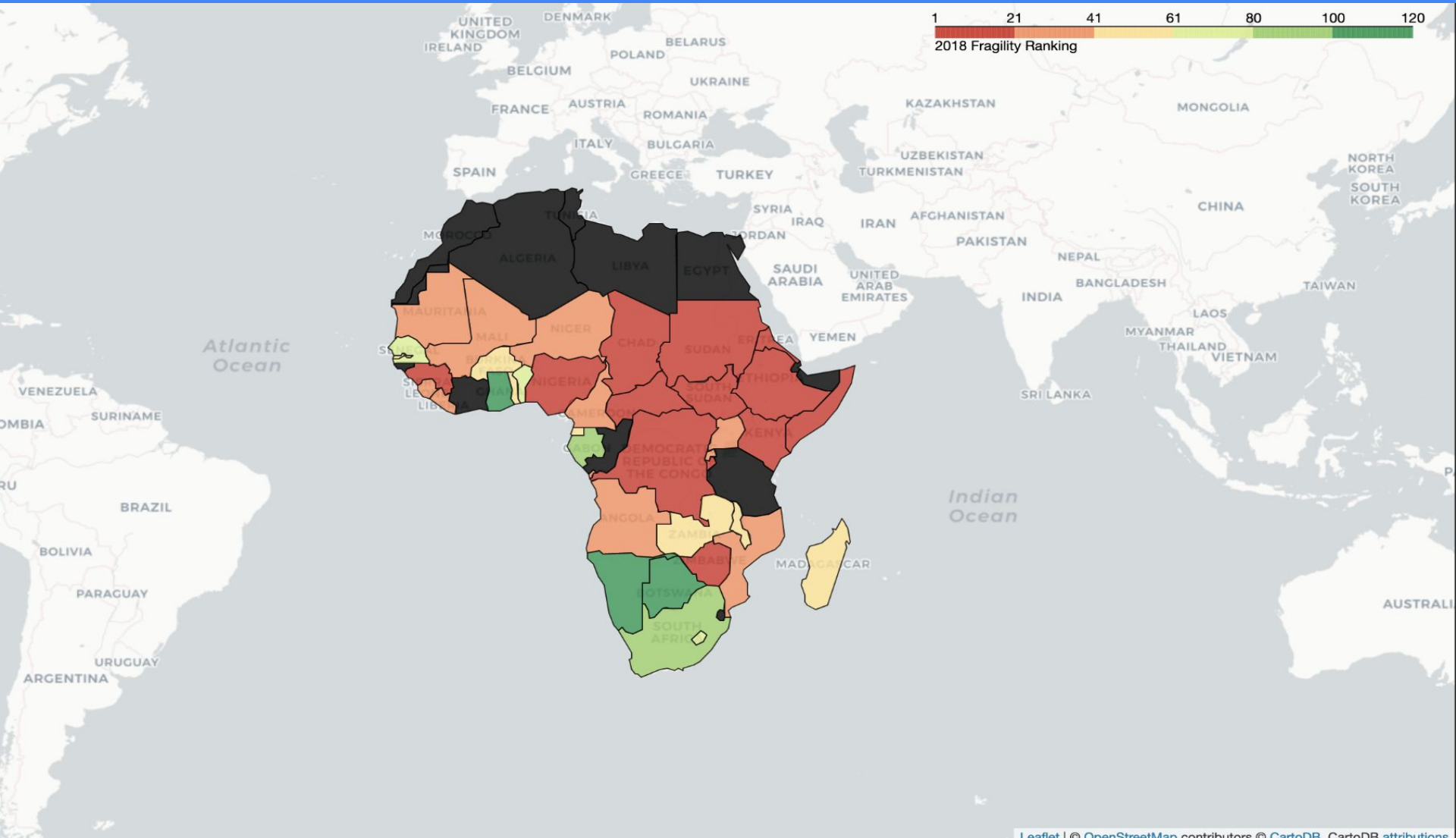
# Assumptions

- Less stable countries will have more food loss.
- More food loss will result in a lower GDP or a decrease in GDP over time.



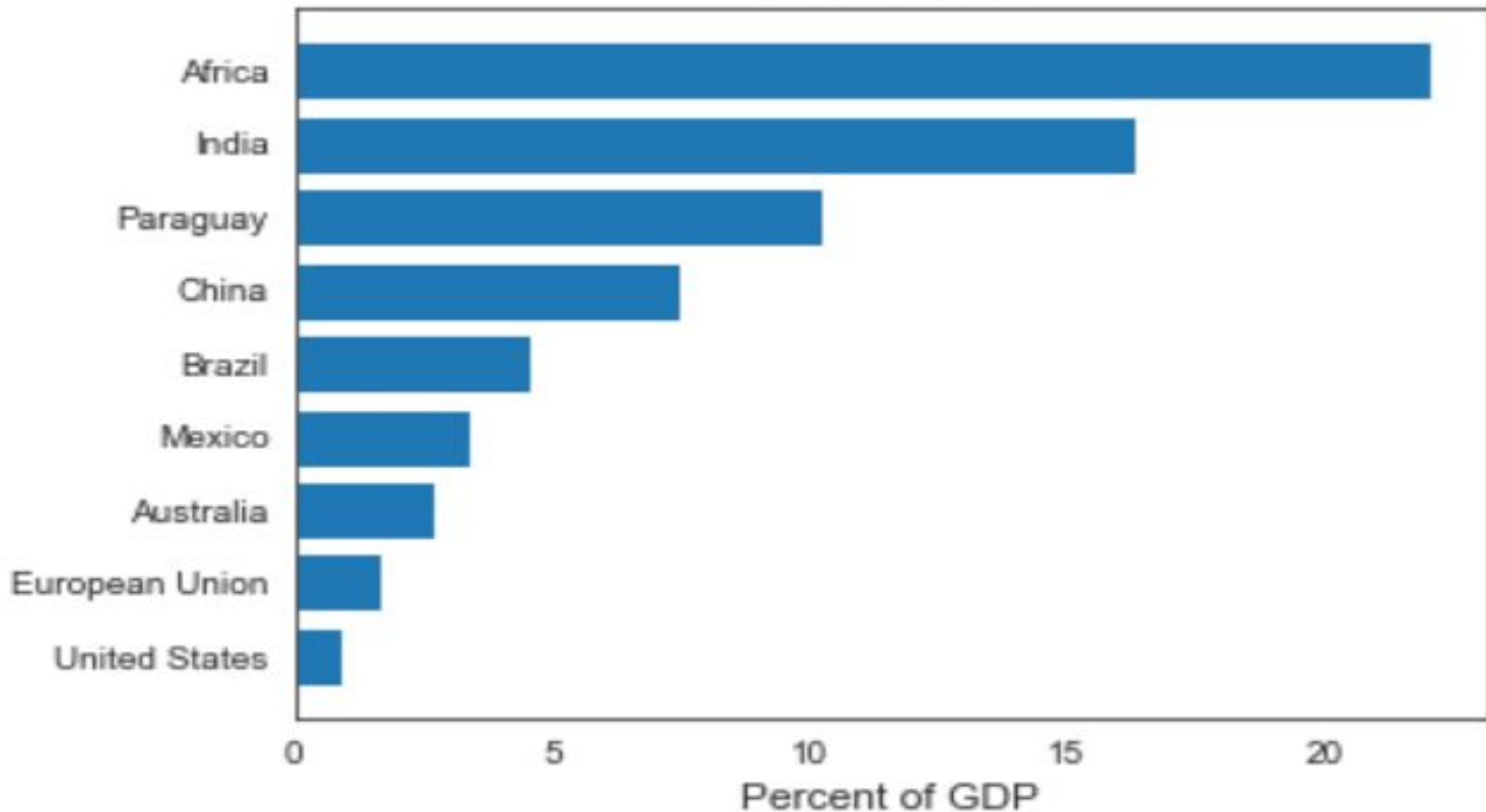


# Countries in Scope

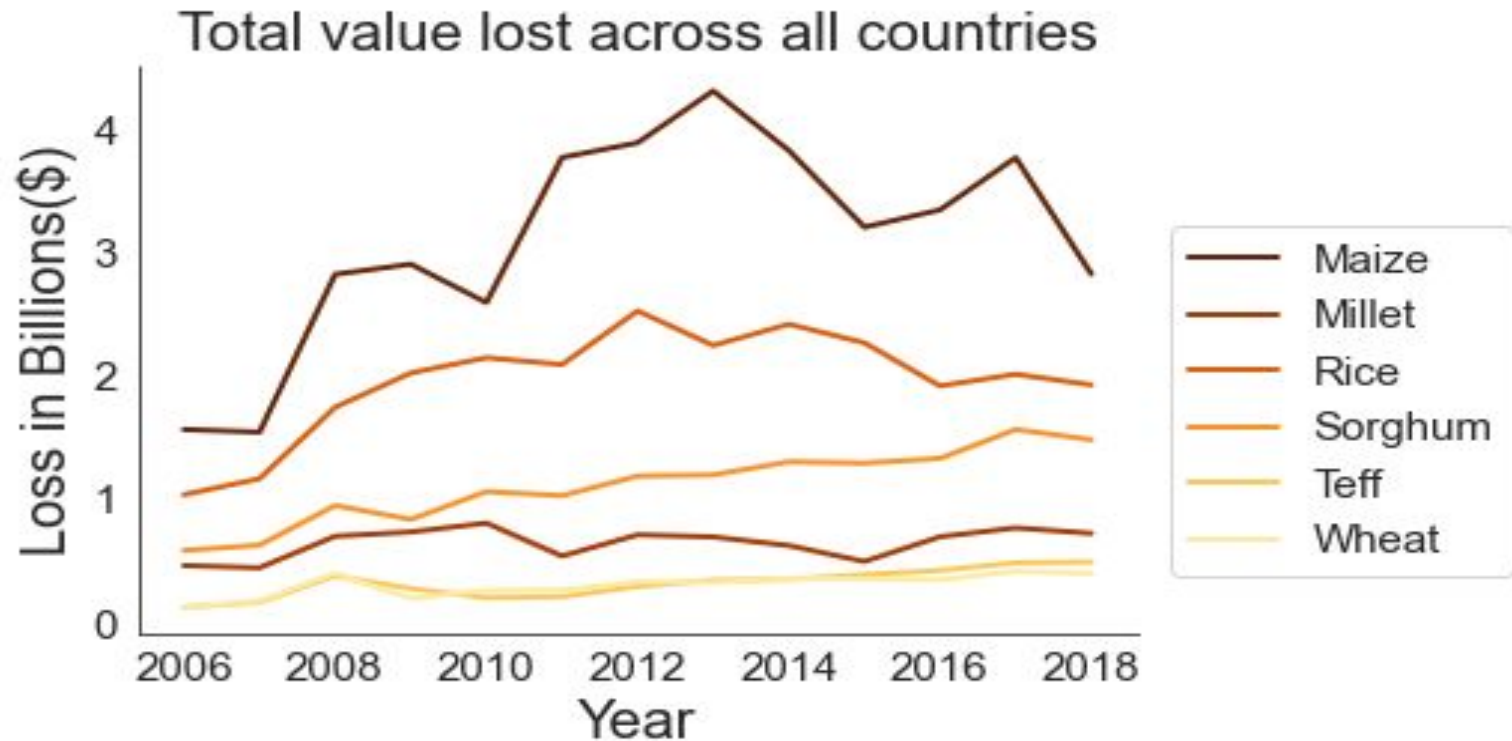


# GDP Data

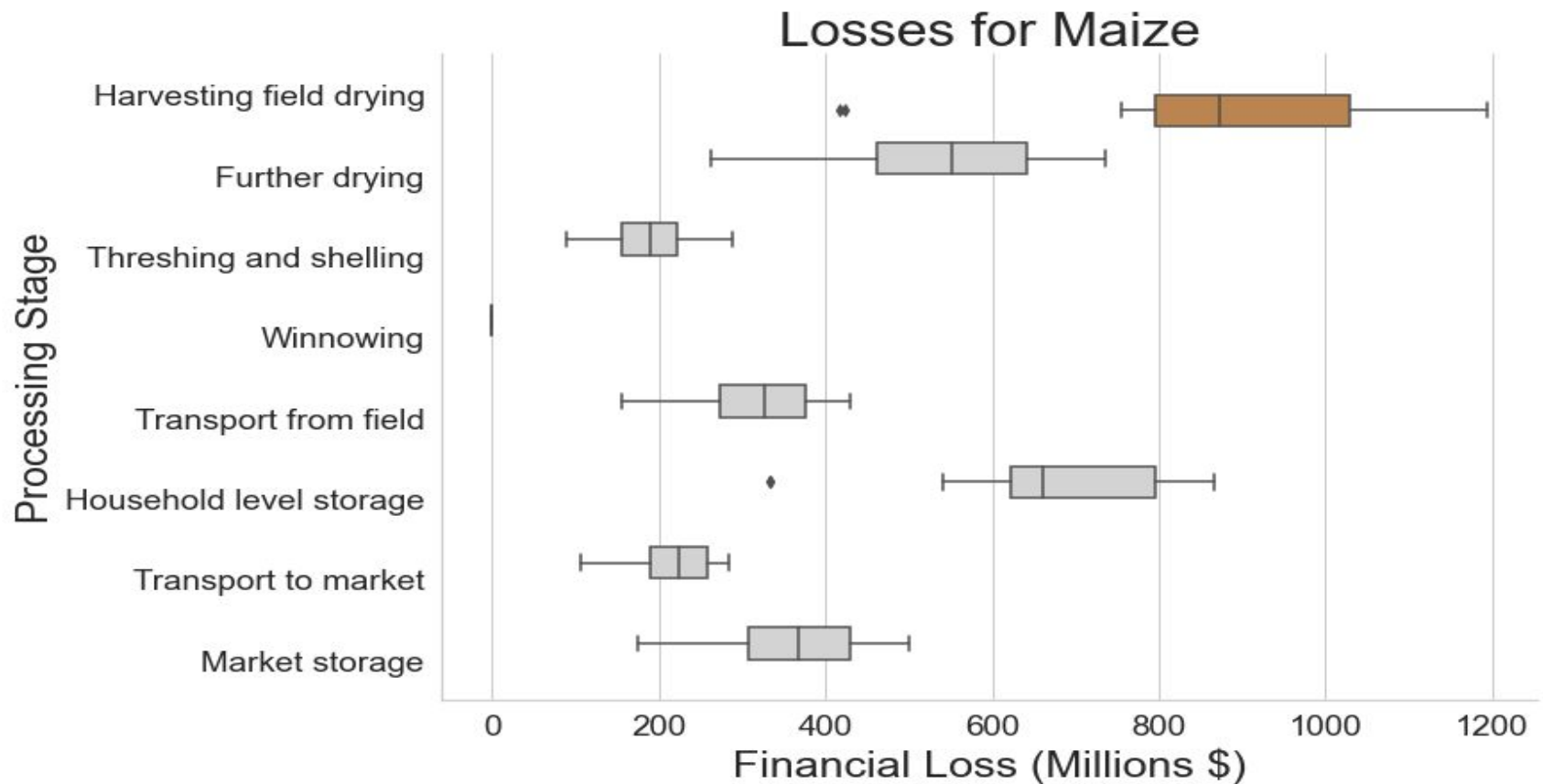
Global View  
Contribution of Agriculture, Forestry, & Fishing  
to GDP (2017)



# Crop Loss

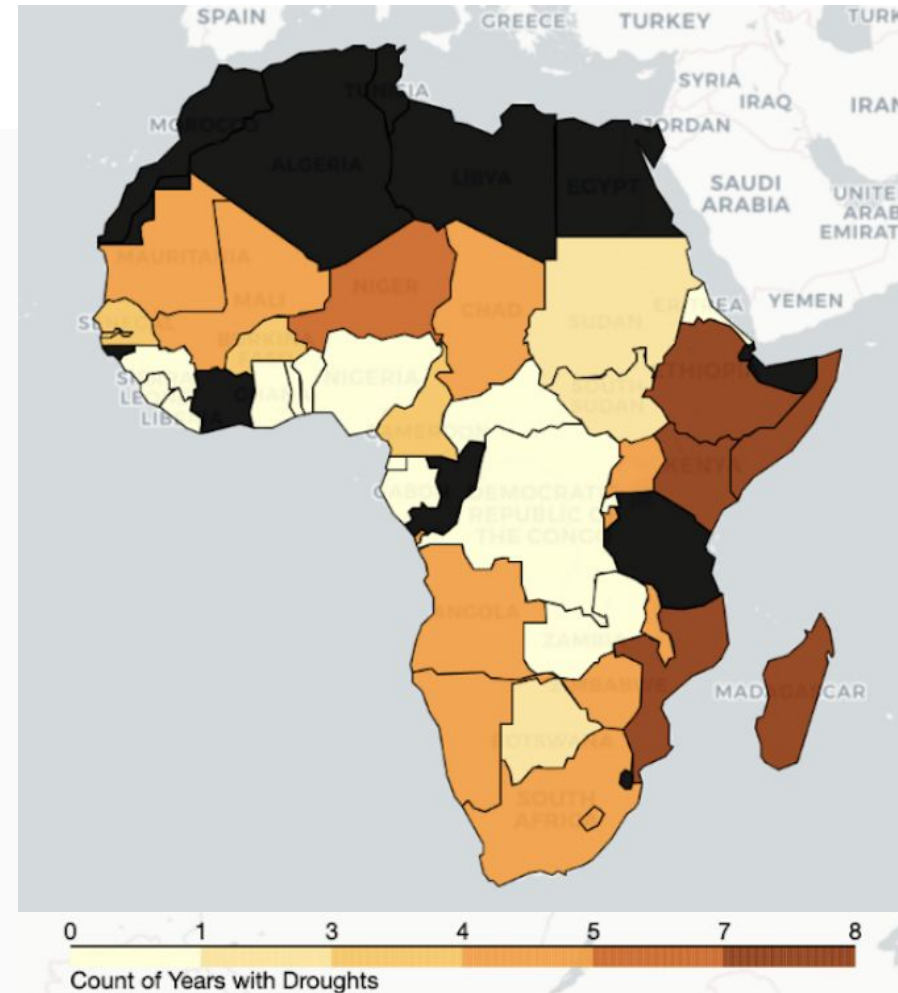
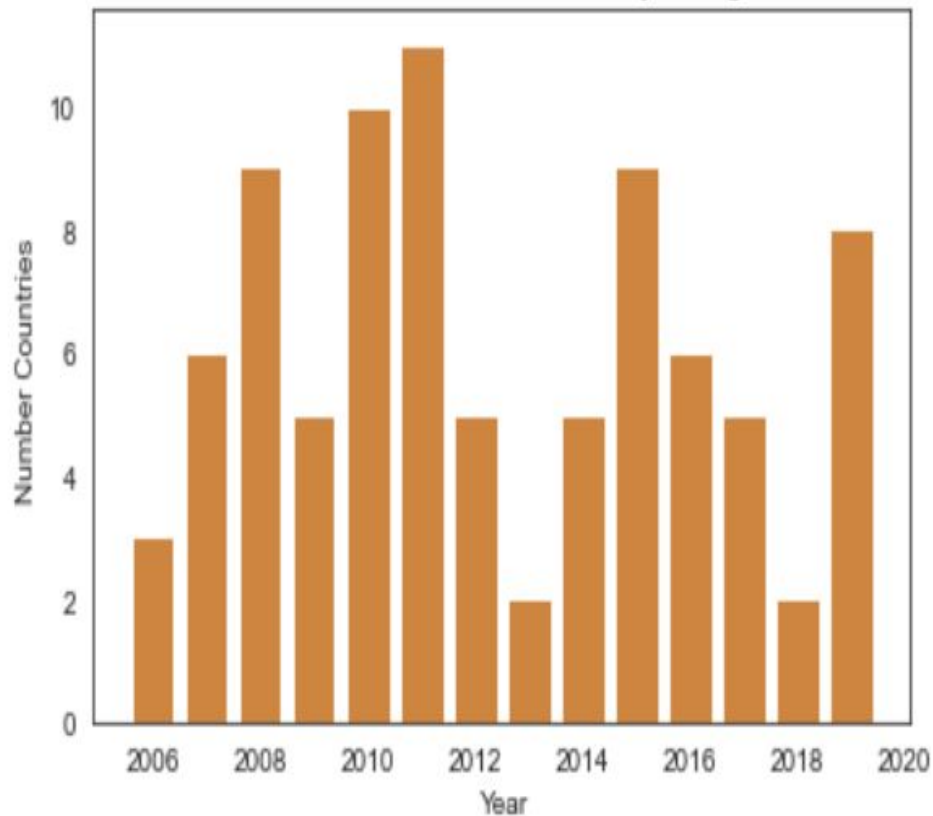


# Crop Loss: Processing Stage

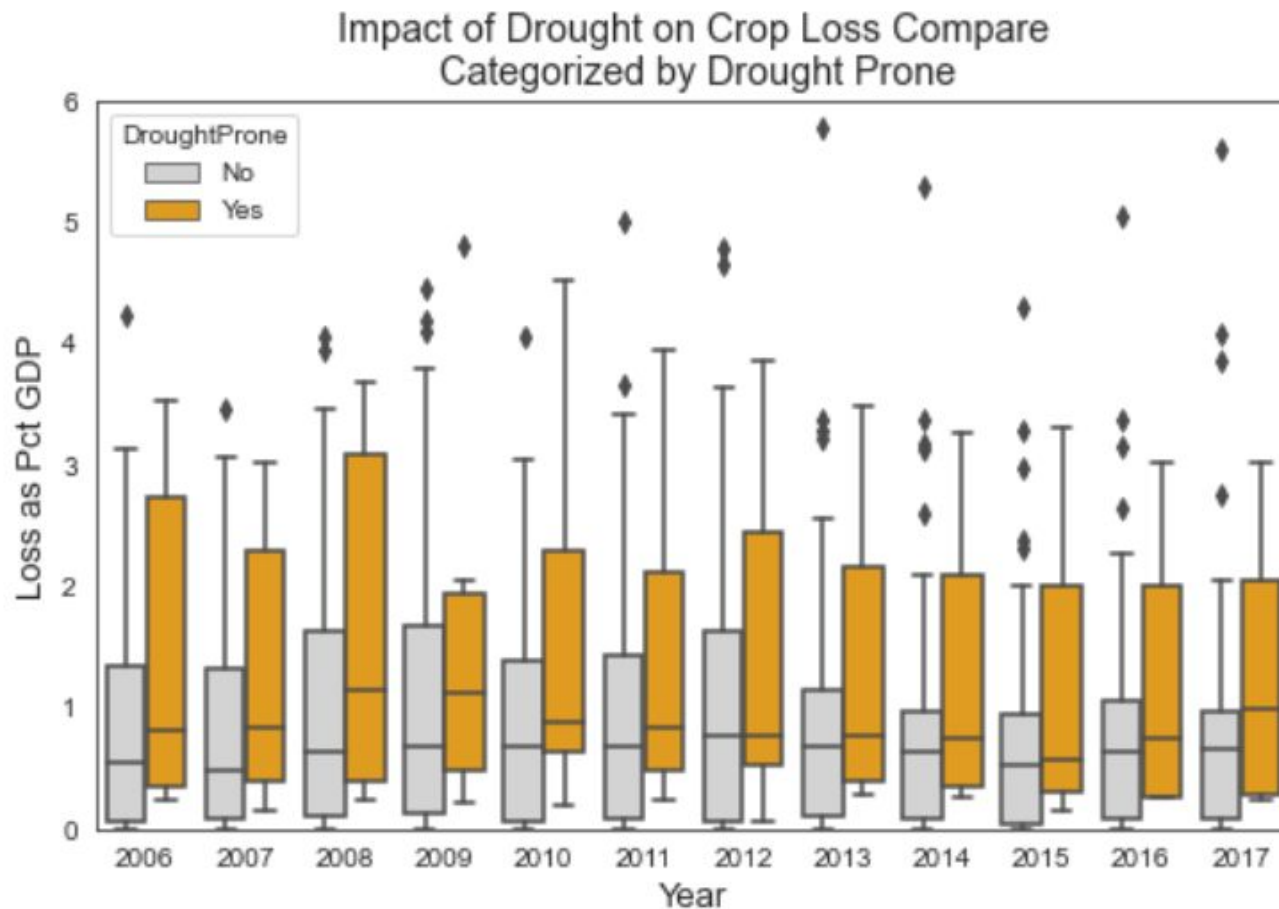


# The Drought Affect

Africa # of Countries Affected by Drought



# Financial Impact



# Conclusions

- Data Quality
- Poor Infrastructure
- Africa is Huge
- Very Unstable
- Needs Dedicated Attention



# Recommendations and Next Steps

- Weather, Climate and Catastrophe Research
- Review the loss process attribution
- Perform a root cause analysis on the losses
- Better data collection practices



**Thank you for your time!**