

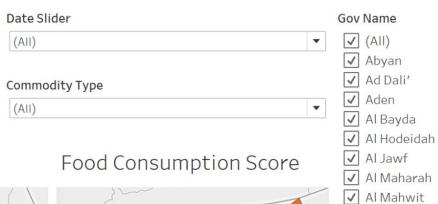
FAMINE & FOOD CRISIS FORECASTING CENTER

HACKATHON 2:YEMEN

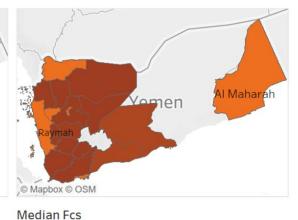
Team Presentations, Day 3

Faminists **S**

Economics of Yemeni Food Consumption









✓ Amran **✓** Dhamar

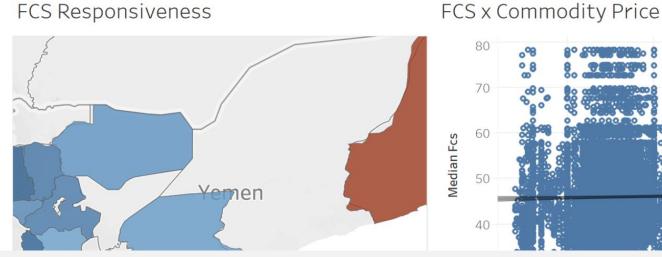
✓ Hajjah

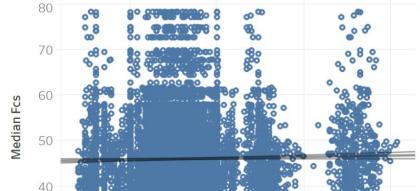
✓ Ibb

✓ Hadramawt

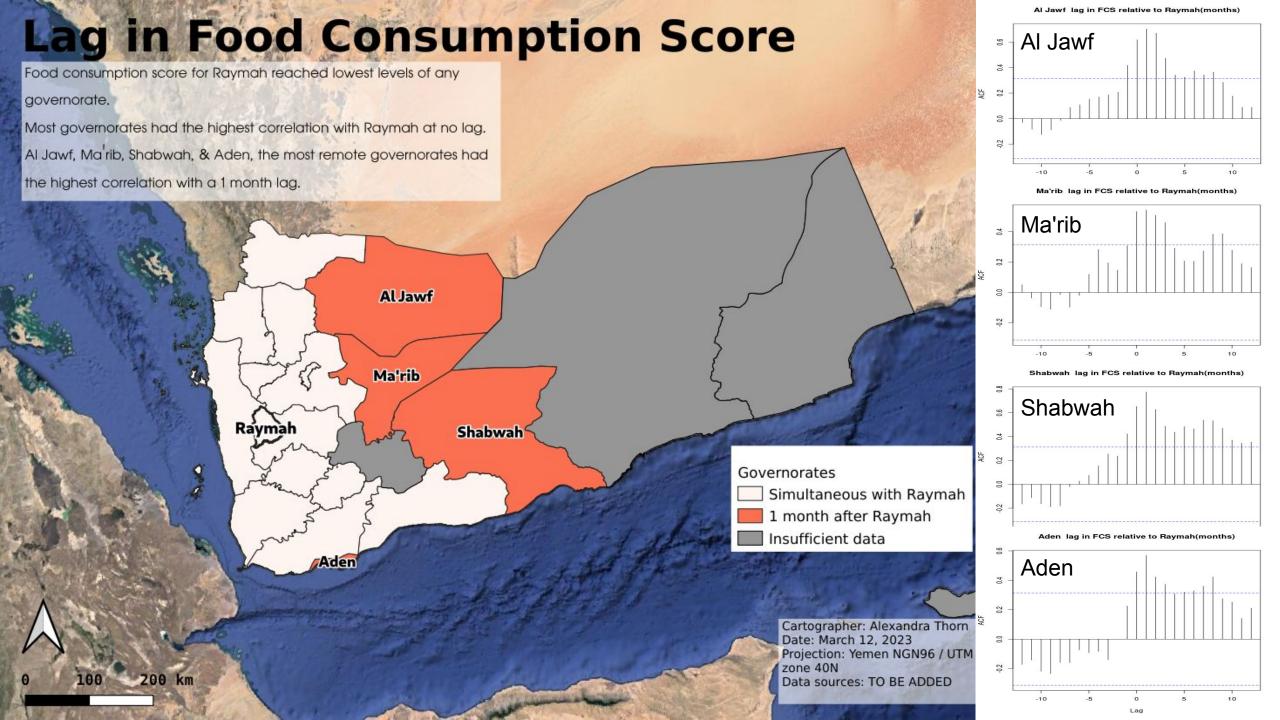


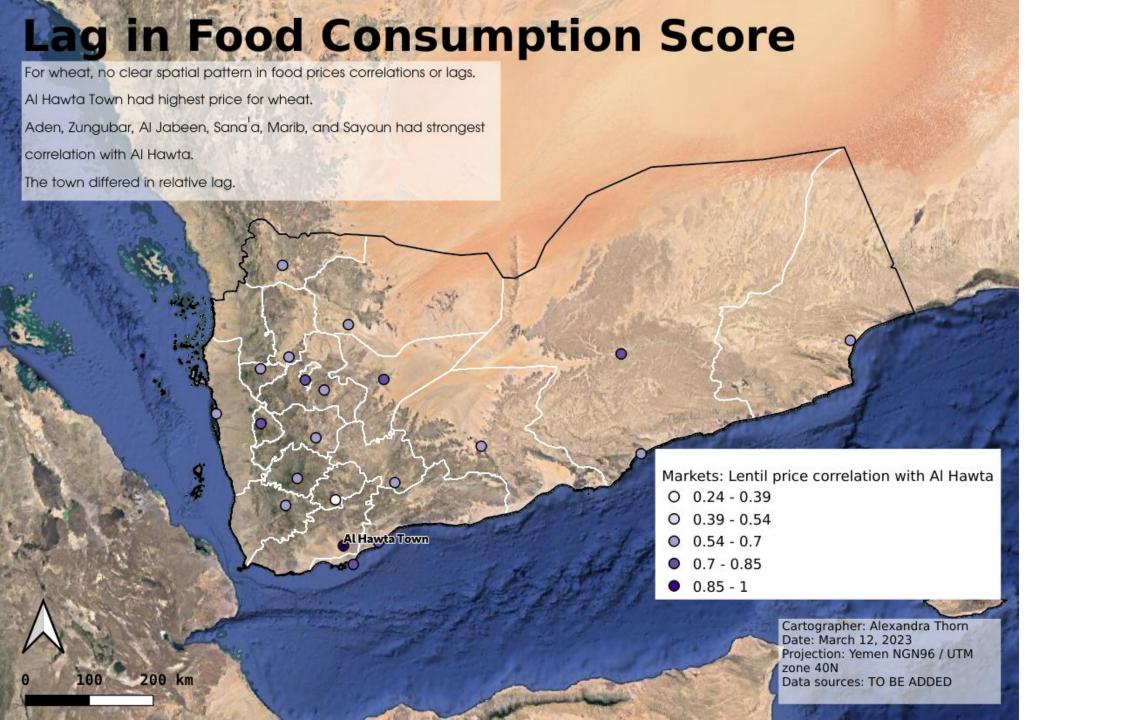


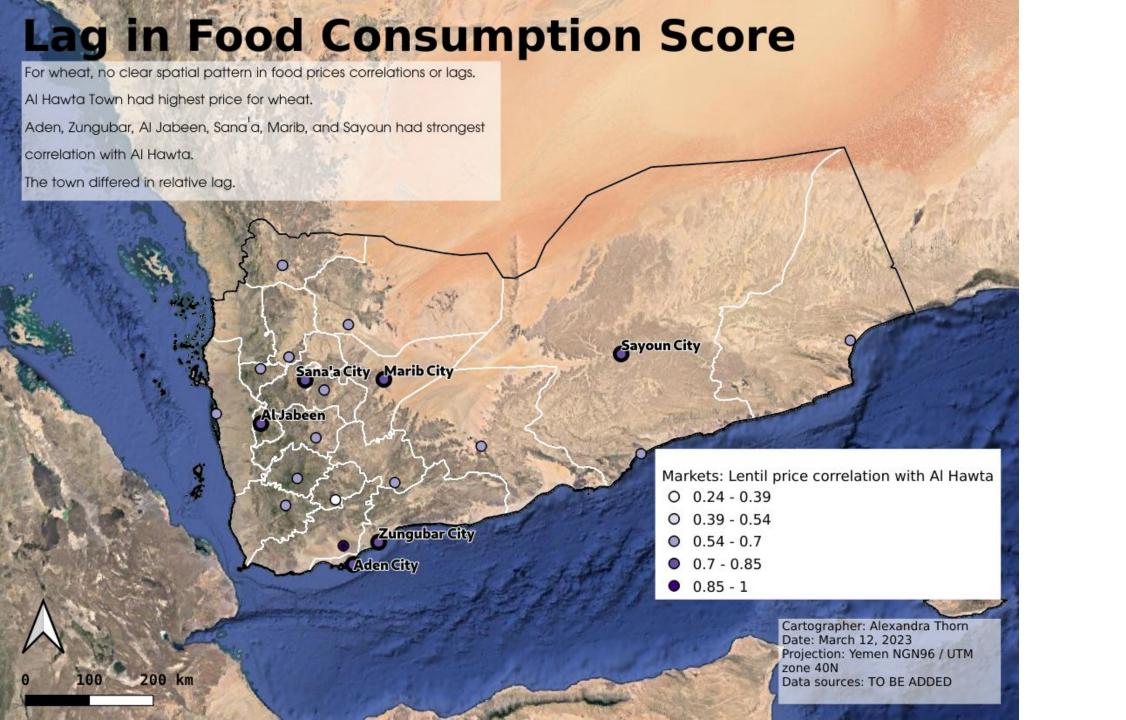


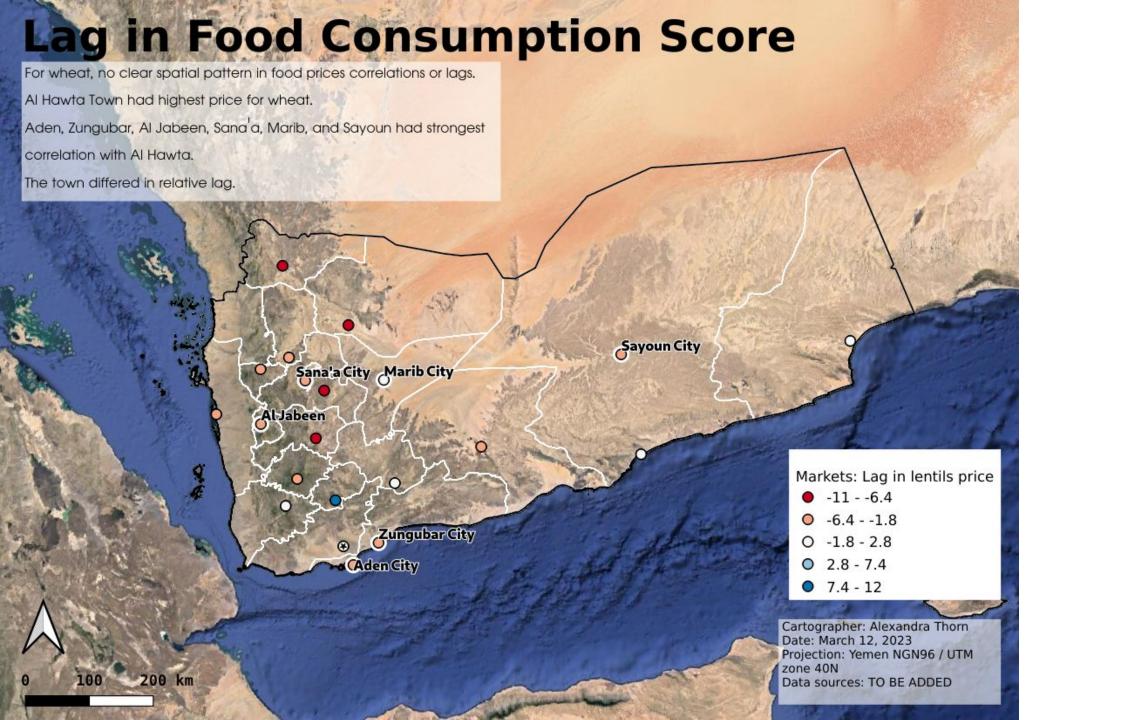


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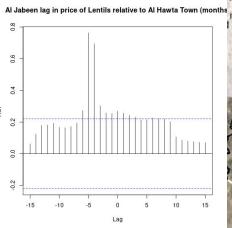


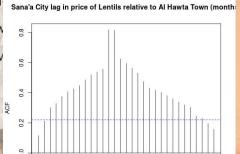


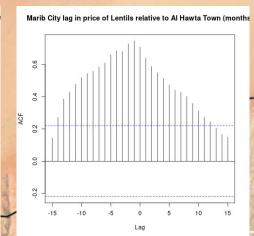


Lag in Food Consumption Score

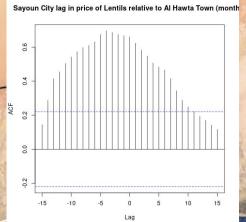
For wheat, no clear spatial pattern in f Al Hawta Town had highest price for w Al Jabeen lag in price of Lentils relative to Al Hawta Town (months





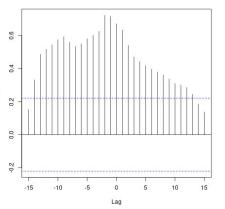


Sayoun City

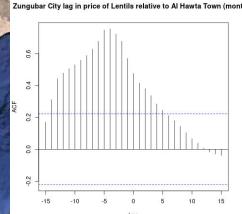




Al Jabeen







Markets: Lag in lentils price

- -11 -6.4
- 0 -6.4 -1.8
- O -1.8 2.8
- 0 2.8 7.4
- 0 7.4 12

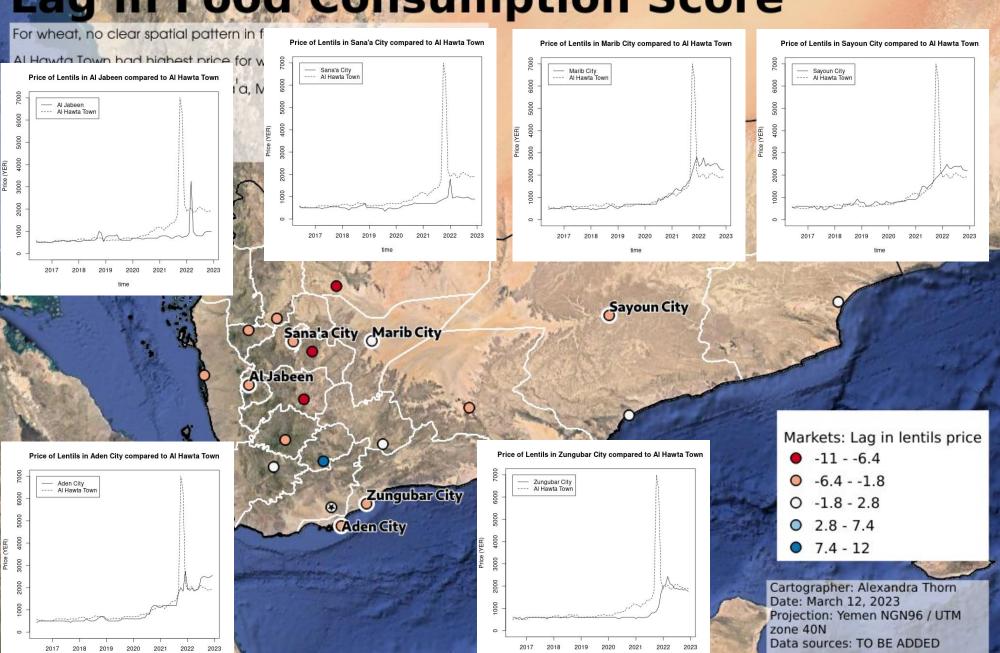
Cartographer: Alexandra Thorn

Date: March 12, 2023 Projection: Yemen NGN96 / UTM

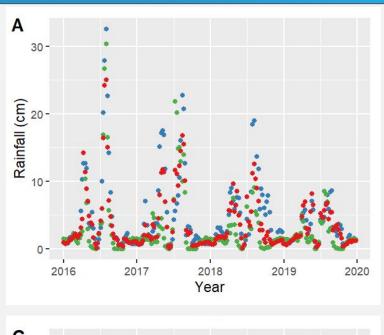
zone 40N

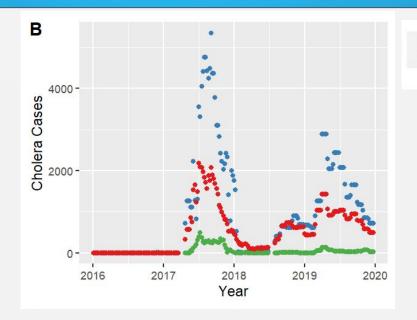
Data sources: TO BE ADDED

Lag in Food Consumption Score

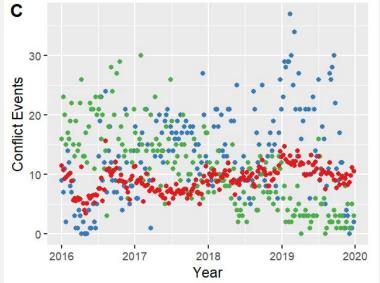


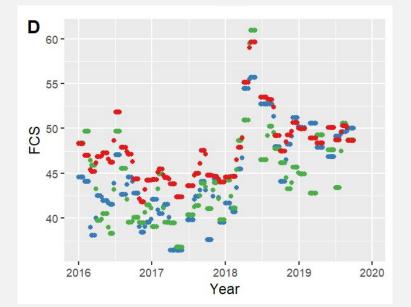
Golden Girls











What were the factors that led to worsening situations in Marib and Hajjah governorates (IPC 4)?

- Rainfall → flooding?
- Conflict?
- Cholera?

Rice Team



Famine Fighters (**)

<u>Research Question</u>: What is the correlational relationship between changes in food insecurity risks and food insecurity over time? How responsive is food insecurity to changes to food insecurity risks, and what is the magnitude of these changes?

<u>Policy and Programming Implications</u>: If we can understand how food insecurity risks will affect needs, humanitarian intervention can begin responding to increased risks—before the suffering occurs.

Case Study: Yemen, 2018 - 2021 (monthly)

Hypothesized Independent Variables

- Terms-of-Trade (wages/price of wheat)
- Rainfall anomalies (mean of that month) (% of long-term average)
- Number of conflict events
- Number of conflict fatalities

Hypothesized Dependent Variables

- Food Consumption Score
- Reduced Coping Strategies Index

Famine Fighters (#



Longstanding limitations in Yemen's agricultural economy has historically resulted in low production and high import dependency, particularly for basic food items such as wheat, rice, and sugar.



2011-2012: With 40% of the population already living below the poverty line or suffering from some form of malnutrition, the Yemeni Arab Spring erupts amidst record high bread prices.



1994: Civil War between pro-union northern and separatist southern forces Yemeni states results in the reunification of Yemen. Widespread infrastructure damage ensues.



2014: International proxy war erupts in October; Houthi's take control of Sanaa. The following month the rebels seize the vital port city of Hodeida and restrict imports.



2004-2010: Low intensity Houthi rebellions leads to the Yemeni military 1.) launching "Operation Scorched Earth" in Saada and 2.) besieging the governorate of Shabwa to root out militants.



2014: Offensives resulted in widespread, deliberate impacts on the food system and the economy generally, including the destruction of productive assets, essential services, economic activities, and agricultural production.

Famine Fighters (**)





2014-2017: Saudi-led coalition launches air strikes against Houthi targets, deploys small ground forces, and imposes a naval blockade. The United States, France, and Turkey aid the coalition's efforts.



2016-2017: Cholera epidemic erupts, humanitarian agencies and watchdogs decry the Yemen crisis as one of the worst humanitarian emergencies in the world.



2016-Present: WFP cuts food aid to Yemen; cost of food increases as the humanitarian situation deteriorates: Riyadh ceasefire proposals, which includes reopening Hodeida seaport and Sanaa airport, rejected by Houthis on the grounds that lifting the blockade is a prerequisite before agreements.

CROSS-CUTTING THEMES

Challenges

- Roles "Who should do what"
- One place to store data (Famine Data Archive)
- Synchronizing across spatio-temporal variation
- The struggles of joins and merges
- How to interpret a variable context

Themes

- Data prep: lots of cleaning and thinking before visualizing
- Lag terms & thinking temporally
- Working across disciplines and methods
- Mini workshop series (Data Analysis, GIS data in Tableau)

We did it!

Next steps:

- Visual briefs
- Certificates! 2 out of 3
- Hackathon 3



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HACKATHON I:YEMEN

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HACKATHON #I:YEMEN

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