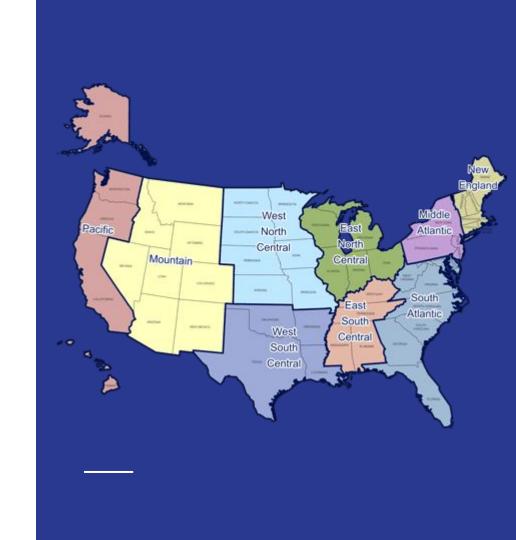
Localization of the agri-food industry a solution?

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Centralized agriculture in the 21st century is now confronted with the growing demand to be more sustainable. Localization is a solution that moves away from the centralized farming practices that the U.S. currently relies upon.

Basic Terms

- The agri-food industry is the production of food through agriculture.
- Localization is a term used to express the movement away from centralized farming to regional or local farming systems.
- Regional (see map) and local is within state boundaries or in close proximity.



Research Question

Sustainability has become a growing bi-partisan problem, but controversy is rooted in the answers to the solution. This study asks to what extent can localizing agriculture in the United States increase sustainability in the agri-food industry?



Methodology

To analyze whether or not localization is a more sustainable option this study compares two dependent variables and how they interact with independent variables that represent sustainability

Dependant Variables

- Centralized farming systems: majority of food originates from the same place (i.e. midwest)
- Local/regional farming systems (previously defined)

The Independent Variables



Show the most significant differentiations between the dependant variables.

Food Miles

- Is how far a food item travels until it reaches a consumer
- It is measured by CO2 emissions

Packaging

Packaging makes up 1/3 of the waste in the U.S. and up to 15% of the energy use in food products

Farming Practices

One of the most influential variables determining sustainability

Results

Food Miles

Local/regional farming systems tend to have significantly less of an impact on the environment based off of their CO2 emissions.

Packaging

centralized farming
systems tend to have
more packaging
compared to
local/regional farming
systems because of the
longer travel distances.

Farming Practices

Local/regional farming systems have more sustainable farming practices on average and tend to adopt more sustainable practices compared to centralized farming systems.

Discussion

Local/regional farming systems have potential to make the current agri-food industry more sustainable but the infrastructure currently in place does not support localization.



- Food hubs are a mediary between local/regional farming systems and grocers, creating a streamlined system.
- Product certification for local/regional.
- Educating consumers and farmers.

Conclusion

Therefore, because local/regional food production is more sustainable, more research is needed on how to create an agri-food infrastructure that supports and incentivises locally produced food