



**ifpti**

# Fellowship in Food Protection

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# IFPTI Fellowship Cohort VII: Research Presentation

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Brianna Gabel, CP-FS

# Foodborne Illness Risks in Iowa Agritourism 2014 - 2018

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Brianna Gabel, CP-FS  
IFPTI 2018-2019 Fellow  
Linn County Public Health, Iowa

# Background

## Top 10 States

### Crop Sales

California

**Iowa**

Illinois

Minnesota

Nebraska

North Dakota

Indiana

Texas

Kansas

Ohio

### Livestock Sales

Texas

**Iowa**

California

Nebraska

Kansas

North Carolina

Minnesota

Wisconsin

Georgia

Colorado

Source: USDA NASS 2012 Census of Agriculture

# Background

What is agritourism?



# Background

## Iowa Agritourism and Recreation Income



# Problem Statement

The frequency and distribution of foodborne illness risk factors in the regulated retail agritourism establishments has been unknown as Iowa lacks a methodology for evaluating those risks.

# Research Questions

1. What are the types and frequencies of common foodborne illness risk factor violations found in routine inspection reports of Iowa regulated retail agritourism establishments from 2014 to 2018?
2. How do the types and frequencies of foodborne illness risk factor violations found in routine inspection reports of Iowa regulated retail agritourism establishments compare to all other retail establishments in the state during the period 2014 – 2018?



# Research Questions (continued)

3. What are the perceptions of experienced Iowa food safety professionals regarding the methodology and findings of this pilot study?
4. What are the perceptions of experienced food safety professionals from outside of Iowa regarding the methodology and findings of this pilot study?

# Methodology

## Phase 1: Building the Agritourism Master List (AML)

**1.** Visit Iowa Farms Data

**3.** Key Word and Web Search

**2.** Business Review and License Search

**4.** Review and Amend

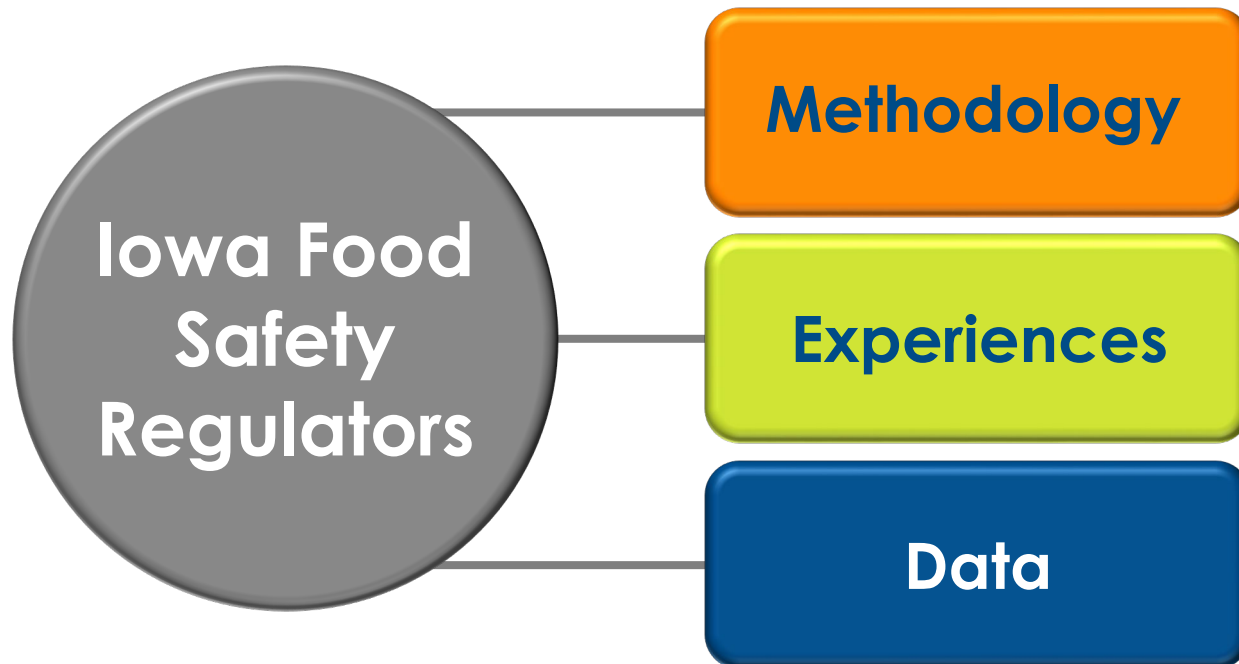
# Methodology

## **Phase 2:** Analyzing Foodborne Illness Risk Factors

- Partnership with Iowa Department of Inspections and Appeals
- USA Food Safety Database

# Methodology

## Phase 3: Focus Group of Iowa Regulators



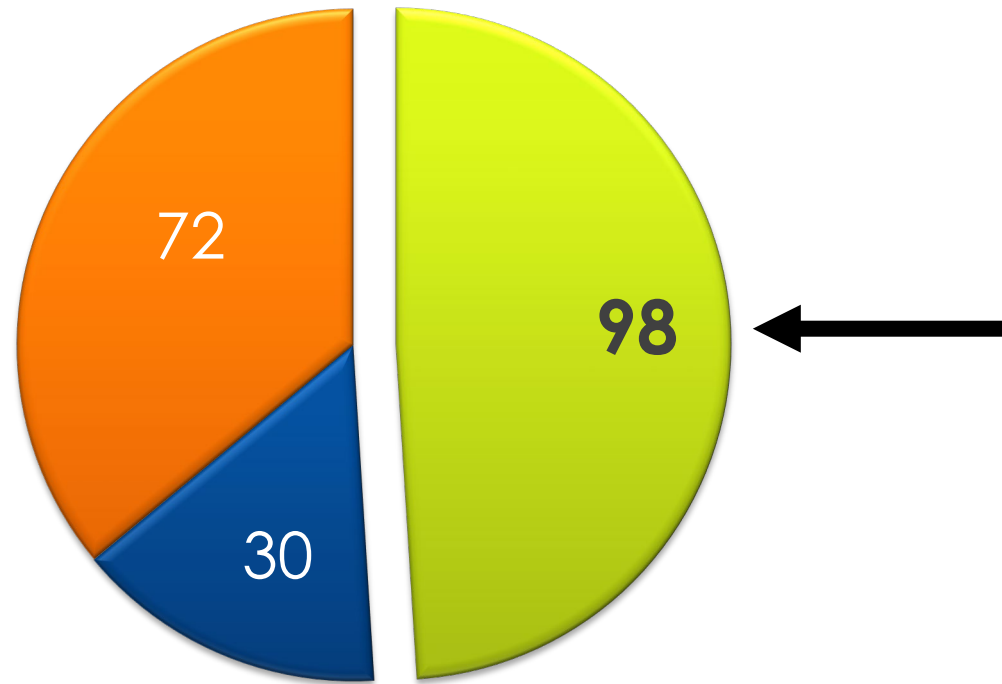
# Methodology

## **Phase 4:** Interviews with External Food Safety Experts

- Joe Corby and Doug Saunders
- Feedback on methodology and data based on extensive experience

# Results

## Phase 1 Results: AML Contents



■ Retail Licenses ■ Other Licenses ■ Unlicensed

# Results

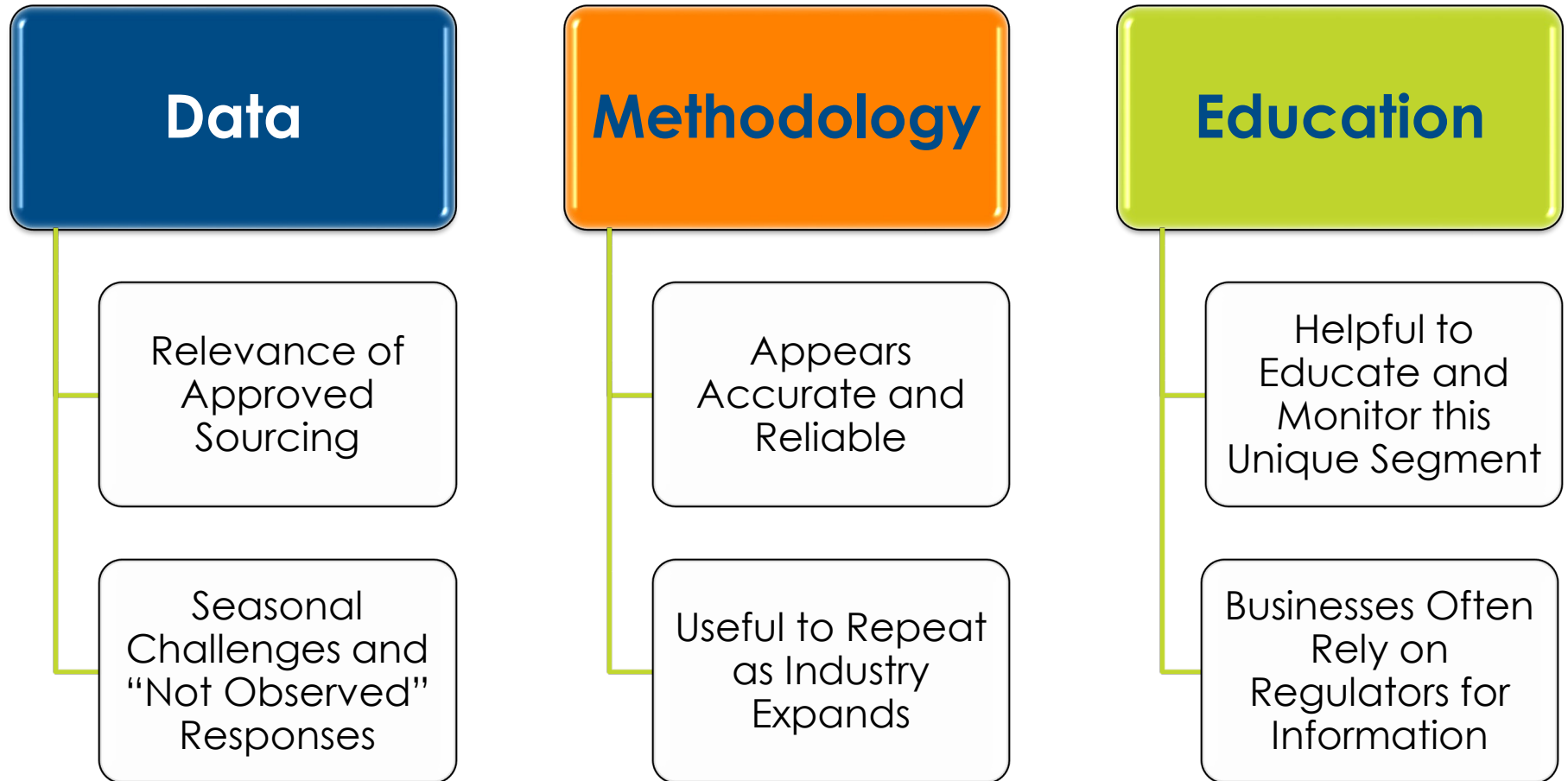
## Phase 2 Results: Analyzing Risk Factor Data

Risk Factor	% out of compliance		Difference
	Agritourism	All Retail	
Time as a Public Health Control	20%	11%	9%
Approved Source	7%	2%	5%
Food Additives	2%	0%	2%
Certified Food Protection Manager	9%	8%	1%
Exclusions and Restrictions	0%	0%	0%
Cooling Time and Temperatures	0%	8%	-8%
Cold Holding Temperatures	3%	12%	-9%
Datemarking and Disposition	6%	16%	-9%
Consumer Advisory	0%	12%	-12%
Food Contact Surfaces Cleaned and Sanitized	6%	20%	-14%

Includes five highest and five lowest based on percentage difference. Does not include not observed responses.

# Results

## Phase 3 Results: Iowa Regulator Focus Group Themes





# Results

## Phase 4 Results: External Food Safety Expert Interview Themes

### Data

- Potential link to Cottage Food Industry
- “Not Observed” challenges nationally
- Interest in implicated products

### Methodology

- Accurate as possible
- Regional differences for key search terms
- Opportunity for communication and education
- Chance to learn more about the population served

### Regulating Agriculture

- Challenges due to historical exemptions and political variables
- Grant programs for small farms not rooted in food safety

# Conclusions

- The study methodology appears to be accurate and reliable.
- The limitations of the 2014 – 2018 data prevent any firm conclusions about the differences between agritourism and other retail food establishments in Iowa.

# Recommendations

1. Repeat study when more data is available to monitor food safety patterns.
2. Add a classification for agritourism.
3. Alter inspection times when possible to improve data.
4. Develop educational outreach guided by problem areas identified.

# Acknowledgements

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- Harvestville Farms in Donnellson, IA

# Questions?

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Brianna Gabel, CP-FS  
brianna.gabel@linncounty.org  
319-892-6038

# Other

- [insert extra slides in anticipation of questions]