





ABSTRACT

- 1. Labor management strategies have become critical in determining the profitability and long-term sustainability of farms specializing in the production of fruits and vegetables.
- 2. Small fruit and vegetable farms face unique labor challenges due to resource constraints and difficulty mechanizing.
- 3. This study investigates Tennessee fruit and vegetable farms' use of labor, specifically the use of migrant labor through the H-2A guest worker program, the labor challenges faced, and the labor strategies used to address these challenges.

BACKGROUND

- Fruit and vegetable farms depend heavily on labor to produce their crops, with labor costs representing up to 40% of the total variable costs.
- On average, Tennessee (TN) fruit and vegetable farms are smaller than the average U.S. fruit and vegetable farm.
- Alternatives to overcome labor challenges faced by small farms are limited, as access to H-2A workers and mechanization alternatives require a high investment that these farms are unable to afford.
- Previous studies have mainly focused on labor challenges faced and labor management strategies used by large U.S. fruit and vegetable farms located in top fruit and vegetable producing states (e.g. California, Washington, and Florida).
- This study fills a gap in the literature by investigating labor challenges faced and labor strategies used by small fruit and vegetable farms.

Labor Use and Labor Challenges Faced by Small Fruit and Vegetable Farms: The Case of Tennessee Justin Cross | Faculty Advisor: Margarita Velandia

METHODOLOGY

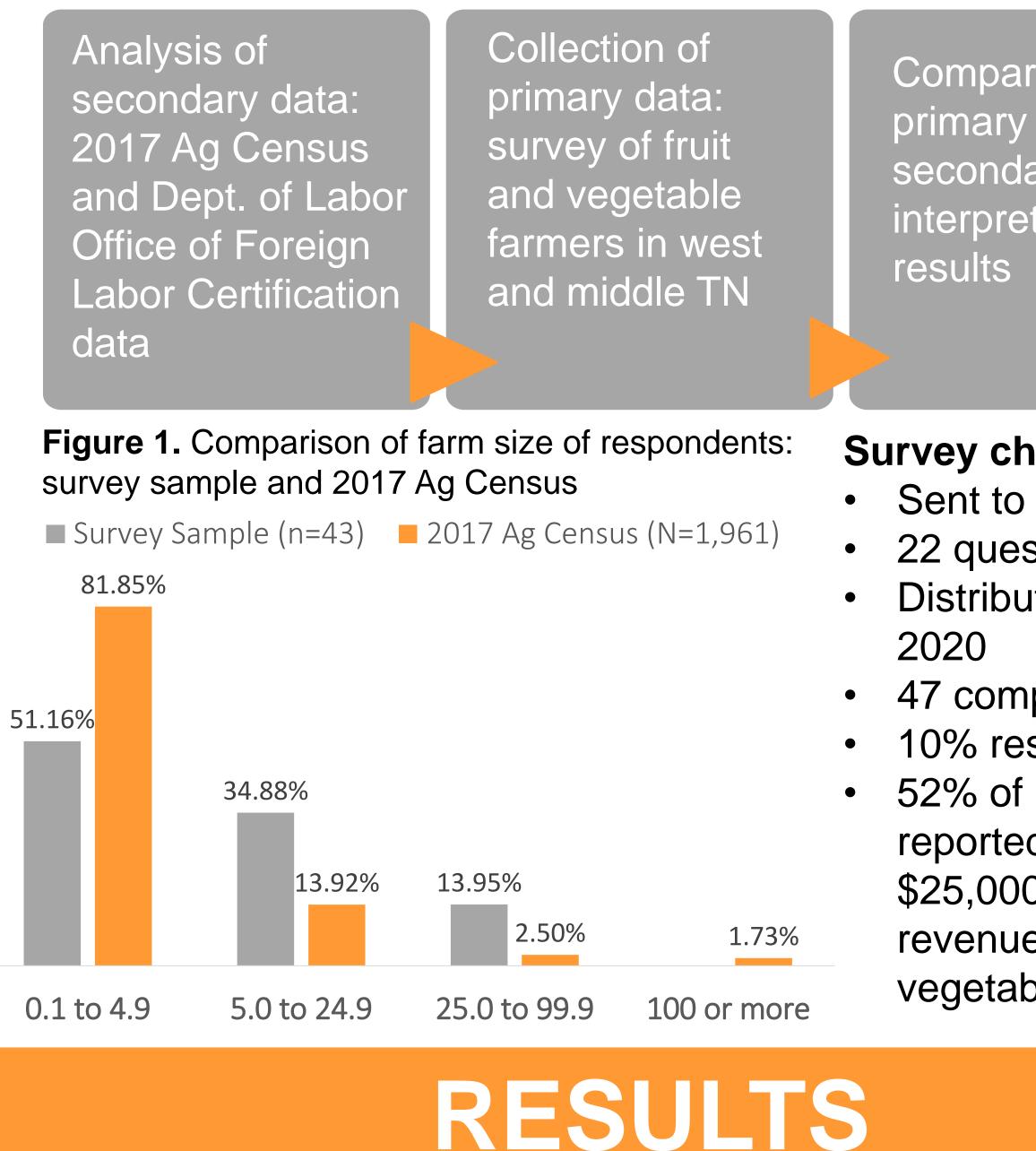
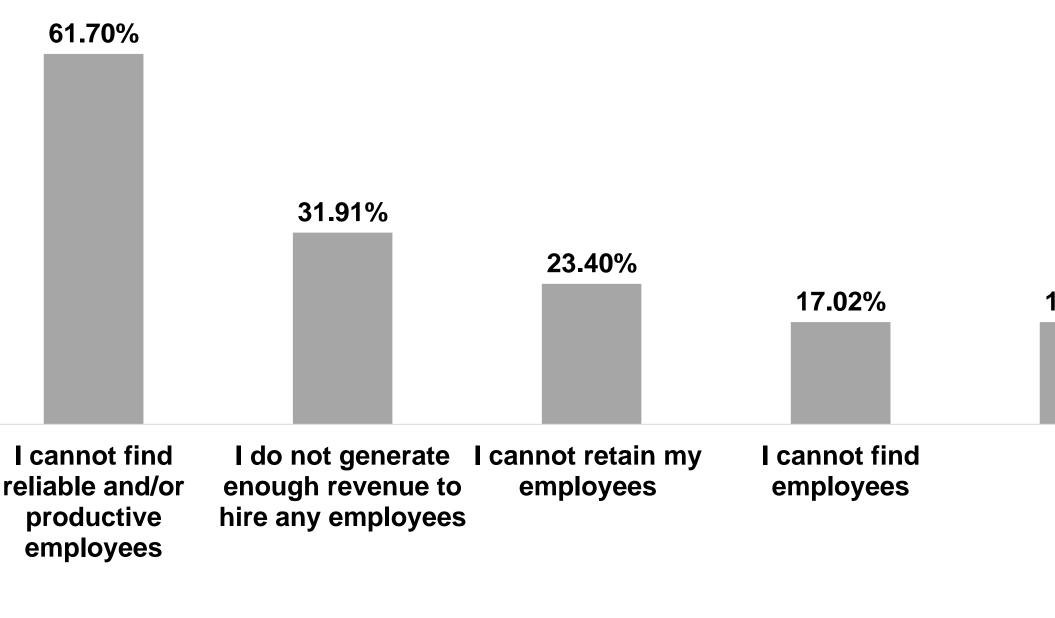


Figure 2. Labor challenges faced by survey respondents (n=47)



LABOR MANAGEMENT STRATEGY	PERCE REPOR
I adopted mechanized technologies	
I have scaled back my operation	
I started using H-2A workers	
I raised wages and improve benefits to find new workers I put expansion plans on hold	
I switched to less labor-intensive crops	
I stopped producing fruits and vegetables	
Other	

Table 1. Labor management strategies used by respondents (n=44)

FINDINGS

Comparison of primary and secondary data; interpretation of

Survey characteristics: Sent to 464 TN farmers 22 questions Distributed Feb. 1 - 20,

> 47 complete responses 10% response rate 52% of respondents reported less than \$25,000 in gross on-farm revenue from fruit and vegetable operations

> > 17.02% 12.77% Other I do no not have any labor challenges ENT OF RESPONDENTS **TING USING STRATEGY** 34.09% 27.27% 6.82% 13.64% 38.64% 20.45% 2.27% 31.82%

Difficulty finding reliable workers and the inability to generate enough revenue to afford workers are the top labor challenges faced by TN fruit and veg. producers who responded to the survey.

Tennessee fruit and vegetable producers are unlikely to turn to H2-A foreign guest labor. Survey respondents cite unfamiliarity with the program and high costs as the top reasons for this.

Survey respondents indicated UT Extension could help overcome labor challenges they face by providing information on apprentices and interns as a source of labor and mechanical aids.

REFERENCES

Bampasidou, M., & Salassi, M. E. (2019). Trends in U.S. farm labor and H-2A hired labor. *Choices*, 34(1), 1-6.

4

- Calvin, L., & Martin, P. L. (2010). Labor-intensive U.S. fruit and vegetable industry competes in a global market. Amber Waves, U.S. Department of Agriculture, Economic Research Service, (pp. 24-31).
- Hertz, T., & Zahniser, S. (2013). Is there a farm labor shortage? American Journal of Agricultural Economics, 95(2), 476-481.
- Luckstead, J. & Devadoss, S. (2019). The importance of H-2A guest workers in agriculture. *Choices*, 34(1), 1-8.
- Ribera, L., & Knutson, R. (2013). Labor issues in agriculture. 2013 Risk Publication Series. Washington, DC: United States Department of Agriculture – National Institute of Food and Agriculture.
- U.S. Department of Agriculture (USDA), National Agricultural Statistics Service (NASS) (2017). 2017 Census of Agriculture. Census Data Query Tool (CDQT). Accessed online on November 16, 2019.
- U.S. Department of Agriculture (USDA). Multiple years. Farm *labor*. Washington, DC: Economic Research Service (ERS). Accessed online on January 26, 2020.
- U.S. Department of Labor (USDOL) Office of Foreign Labor Certification. (2018). Foreign Labor Certification: OFLC Performance Data. Washington, DC: U.S. Department of Labor. Accessed online on July 16, 2019.



The most common solutions to these challenges cited by survey respondents are to forego otherwisefeasible expansion opportunities or adopt mechanical aids to reduce labor dependency.