

Agricultural and Entrepreneurial Factors Driving U.S. Food Manufacturing Startup Locations

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At the consumer level, overall food and beverage spending has been stagnant. However, purchase patterns have shifted. In particular, some consumers have opted to purchase more specialty goods, place-based goods, and goods made by smaller firms. These behaviors raise a question—is food manufacturing, once again, a viable rural economic development strategy? If so, then are food manufacturing startups a natural extension of the dynamic driving interest in local foods at the farmgate? To answer these questions, an MU Extension faculty member and graduate student partnered with colleagues at Colorado State University and USDA Economic Research Service to discover the agricultural and entrepreneurial characteristics of regions with more food and beverage manufacturing startups. The study is part of a collective effort to define "the locational secret sauce" for food and beverage manufacturing startups. Ultimately, policymakers may use these findings to focus resources toward areas with the greatest potential for startup success.

The U.S. had more than 13,000 food and beverage startups from 2013 to 2015

Using 2013 to 2015 data for 13,523 food and beverage manufacturing startups in the U.S. (Figure 1), the study found the following about these businesses:



Figure 1. Food and beverage manufacturing startups, 2013-2015.

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- In the past 10 years, food manufacturing startups (e.g., bakeries, meat processors) increased by 25%, and beverage manufacturing startups (e.g., distilleries, wineries) increased by 125%.
- Nonemployers (i.e., sole proprietors without any paid employees) represented approximately 10% of food manufacturing startups.
- *Bread and bakery product manufacturing*¹ represented the largest slice of the food manufacturing sector. In 2015, it accounted for 36% of establishments and 67% of startups. *Wineries* represented the second largest share of food and beverage manufacturers, and *dairy product (except frozen)* manufacturing ranked as the third largest.
- In nonmetro counties, *bread and bakery* and *winery* remained in first place and second place, respectively, for number of establishments, and *animal slaughter and processing* represented the third largest share of establishments in the sector.

Some farms manufacture food and beverage products

Farms often engage in value-added food manufacturing activities, such as canning salsa, curing meats, and preparing baked goods, to diversify economically and respond to consumer interests. However, they represent only a small share of the more than 30,000 U.S. food and beverage manufacturing establishments, which reported \$877 billion in 2016 sales. According to the 2017 Census of Agriculture, 33,523 U.S. farms (1.6% of total farms) sold more than \$4 billion in value-added products; in Missouri, 904 farms (less than 1% of Missouri farms) sold more than \$25 million in value-added products.

The research found counties home to food and beverage manufacturing startups had common characteristics

The study suggests that a culture of food entrepreneurship and proximity to farms aligned with alternative production and marketing activities have been two features common in counties across the continental U.S. where food manufacturing startups have tended to locate. Regarding the location of food and beverage manufacturing startups, the research (Figure 2) also suggested the following:

- In metro counties, food and beverage manufacturing startups tended to have entrepreneurs who wanted to meet consumer needs and desires.
- The research didn't find that individuals appear pushed into starting food and beverage manufacturing businesses due to a lack of other job opportunities.
- Farms' direct-to-consumer food and organic product sales were positively related to the number of food and beverage manufacturing startups.
- Natural or scenic amenities such as mountains, lakes and rivers had a positive relationship with number of startups, especially in nonmetro counties.
- Areas with access to highways and broadband providers tended to have a greater number of food manufacturing startups.
- Education levels and the number of startups had a positive association. Areas where more adults were high school dropouts had fewer startups, all else equal. In rural areas, startups and collegeeducated rates had a positive relationship with food manufacturing entrepreneurship.





- Locations near colleges and universities tended to have more startups, perhaps indicating how nearby workforce development and technical assistance opportunities encourage food manufacturing entrepreneurship.
- Nonmetro areas had higher startup rates if they had a tourism industry. This finding indicates that rural tourism may incent entrepreneurs to start up food manufacturing establishments such as wineries, craft distilleries, and microbreweries given that tourists serve as a potential market.

What do these findings mean?

Given these findings, policies meant to leverage food innovations and entrepreneurship should be intentionally targeted. For example, because the research suggests that regions or states with more organic and local or regional food production have more food and beverage manufacturing startups, focusing food manufacturing support in such regions may more consistently lead to successful food and beverage manufacturing entrepreneurship. Food manufacturing does align with consumer-driven innovations. As a result, policymakers can leverage it or better integrate it into existing grant and business development programs to support farmgate food systems.

This research is especially relevant for economic development policy. Researchers recommend that rural places emphasize their unique assets in order to attract startup food and beverage businesses and grow their economies. In Missouri, agriculture and food are assets. Indeed, Missouri's lieutenant governor commissioned a task force in 2019 to examine food, beverage, and forest products manufacturing as a policy initiative for the state.

Source

Low, Sarah A., Martha Bass, Dawn Thilmany, and Marcello Castillo. (forthcoming) "Local Foods Go Downstream: Exploring the Spatial Factors Driving U.S. Food Manufacturing." *Applied Economic Perspectives and Policy* (July, 2020). Available for free at *https://doi.org/10.1002/aepp.13046*.

Endnotes

¹Italicized industries refer to those defined by the North American Industrial Classification System.

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