

In this appendix are supplemental figures referred to in the report. For the full list of survey questions, please visit the <u>National Food Hub Survey webpage</u> on the MSU Center for Regional Food Systems website.

Figure A1. Number of Unpaid Interns, Apprentices, and Volunteers

Unpaid Interns and Apprentices (n = 12)	
Total	59
Mean	5
Median	1
Range	1-40
Volunteers (<i>n</i> = 33)	
Total	757
Mean	23
Median	5
Range	1–450

Figure A2. Number of Hubs' Producers and Suppliers

	2013 (<i>n</i> = 79)	2015 (<i>n</i> = 79)	2017 (<i>n</i> = 76)	2019 (n = 61)
Mean	80	83	78	59
Median	36	37	40	40
Range	5-2,000	3-1,500	1-1,800	3-215

Figure A3. Average Percentage of Sales Revenue for Meat and Produce

	Hubs Selling Meat, Poultry, and Fish	Hubs Selling Fresh Produce	Hubs Selling Meat, Poultry, Fish, and Fresh Produce
2019 average percentage of sales revenue	17% (n = 45)	53% (n = 64)	66% (n = 67)
2017 average percentage of sales revenue	20% (n = 65)	65% (n = 87)	75% (n = 93)

Figure A4. Revenue by Category for 2015, 2017, and 2019

	2015			2017		2019			
	Percentage of Hubs Reporting	Median Revenue	Minimum/ Maximum Revenue	Percentage of Hubs Reporting	Median Revenue	Minimum/ Maximum Revenue	Percentage of Hubs Reporting	Median Revenue	Minimum/ Maximum Revenue
Overall	100% (n = 113)	\$351,000	\$5,000- \$96,000,000	100% (n = 98)	\$489,000 (+39%)	<\$1,000- \$90,000,000	100% (n = 73)	\$495,000 (+1%)	(\$3,000)- \$100,000,000
By Years in Operation	(n = 113)		(n = 97)		(n = 73)				
0-2 years	30%	\$172,000	\$5,000- \$12,000,000	21%	\$384,000 (+123%)	\$6,000- \$12,500,000	11%	\$104,000 (-73%)	\$3,000- \$650,000
3–5 years	31%	\$370,000	\$18,000- \$6,000,000	30%	\$260,000 (-30%)	<\$1,000- \$9,200,000	33%	\$321,000 (23%)	\$1,000- \$3,308,000
6-10 years	20%	\$509,000	\$75,000- \$8,000,000	32%	\$604,000 (+19%)	<\$1,000- \$7,500,000	25%	\$513,000 (-15%)	(\$3,000)- \$11,500,000
11+ years	19%	\$1,810,000	\$17,500- \$96,000,000	17%	\$1,600,000 (-12%)	\$38,000- \$90,000,00 0	32%	\$1,614,00 0 (.9%)	<\$1,000- \$100,000,000
By Legal Structure		(n = 108)			(n = 94)		(n = 68)		
For-profit	39%	\$1,020,000	\$26,000- \$70,000,000	39%	\$890,000 (-13%)	<\$1,000- \$90,000,00 0	49%	\$700,000 (-21%)	<\$1,000- \$100,000,000
Nonprofit	35%	\$232,000	\$5,000- \$13,916,000	43%	\$288,000 (+24%)	<\$1,000- \$14,633,000	32%	\$362,000 (+26%)	(\$3,000)- \$9,500,000
Cooperative	25%	\$266,000	\$18,000- \$96,000,000	18%	\$389,000 (+46%)	\$6,000- \$3,519,000	19%	\$611,000 (+57%)	\$65,000- \$3,581,000
By Business Model		(n = 113)		(n = 97)		(n=69)			
Direct to consumer	16%	\$197,000	\$5,000- \$12,000,000	16%	\$670,000 (+240%)	<\$1,000- \$7,500,000	26%	\$165,000 (-75%)	\$3,000- \$6,280,000
Hybrid	53%	\$270,000	\$7,000- \$16,527,000	46%	\$380,000 (+41%)	<\$1,000- \$14,000,000	28%	\$421,000 (+11%)	(\$3,000)- \$3,305,000
Wholesale	31%	\$1,077,000	\$50,000- \$96,000,000	38%	\$728,000 (-32%)	\$6,000- \$90,000,00 0	46%	\$1,406,00 0 (+93%)	<\$1,000- \$100,000,000



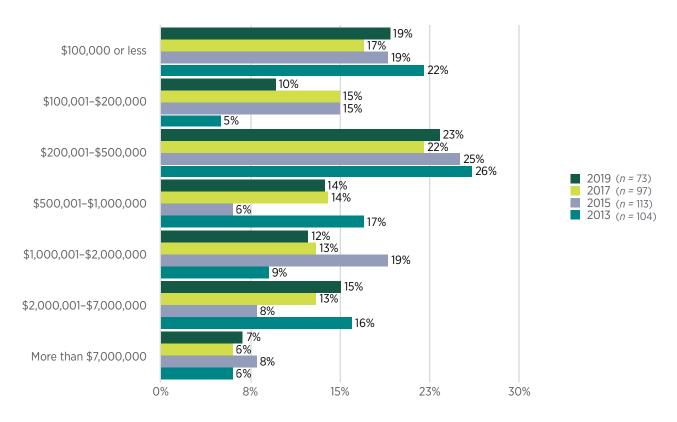


Figure A6. Percentage of Hubs With Grant Type by Legal Structure

	Foundation	Federal	State
Nonprofit ($n = 15$)	73%	80%	47%
Cooperative $(n = 5)$	60%	60%	20%
For-profit (n = 9)	44%	56%	33%

Figure A7. Food Hub Reliance on Grant Funding by Legal Structure and Years in Operation

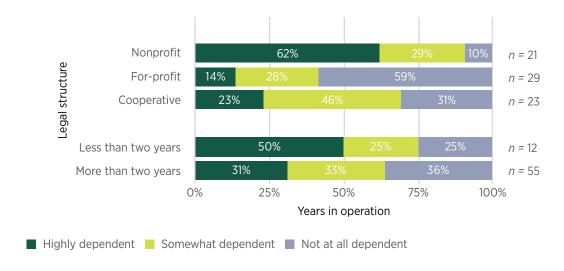


Figure A8. Food Hub Expenses by Survey Year

	2013 (<i>n</i> = 79)	2015 (<i>n</i> = 87)	2017 (<i>n</i> = 78)	2019 (<i>n</i> = 62)
Mean expenses	\$3,345,000	\$2,173,000	\$1,234,000	\$1,507,791
Median expenses	\$311,000	\$238,000	\$378,000	\$522,241

Figure A9. Major Food Hub Expenses as a Percentage of Revenue

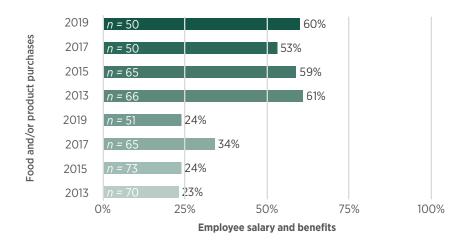


Figure A10. Farms and Ranches Supplying Hubs by Farm or Ranch Location

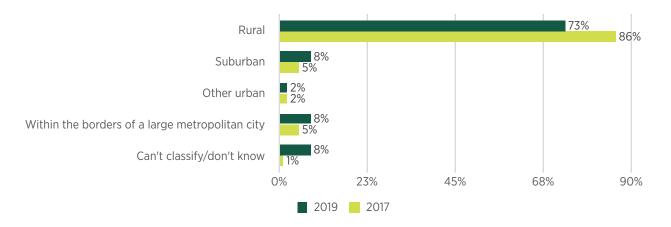
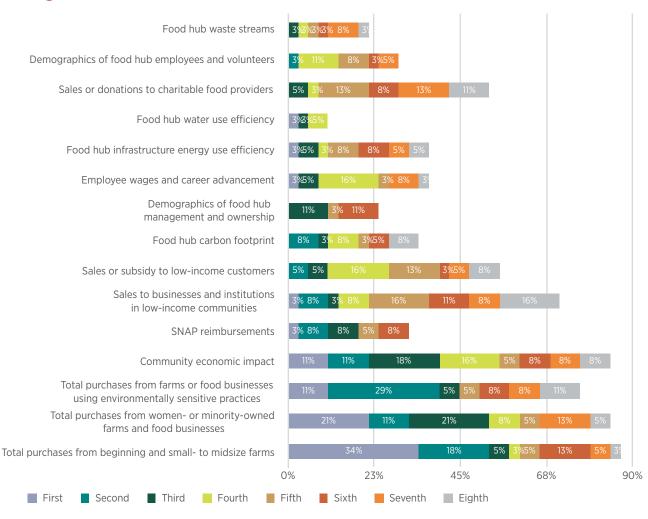
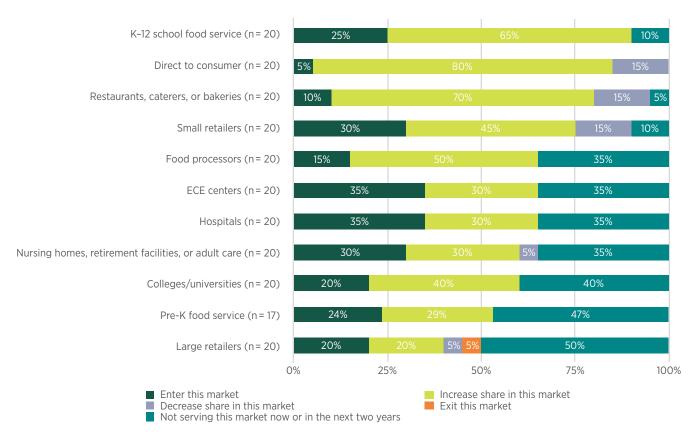


Figure A11. Prioritized Metrics



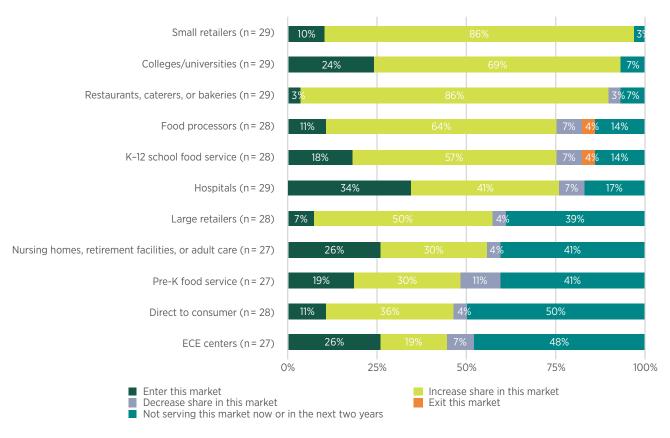
Note: N = 38; the percentages in the chart may not add up to the percentages in the narrative due to rounding.

Figure A12. Two-Year Market Intentions for Hybrid Hubs



Note: Each category may equal more than 100% due to rounding within categories.

Figure A13. Two-Year Market Intentions for Wholesale Hubs



Note: Each category may equal more than 100% due to rounding within categories.

Figure A14. Predicted Future Change in Demand for Products and Services Over Two-Year Period

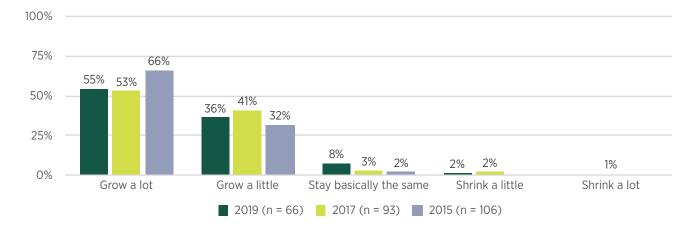
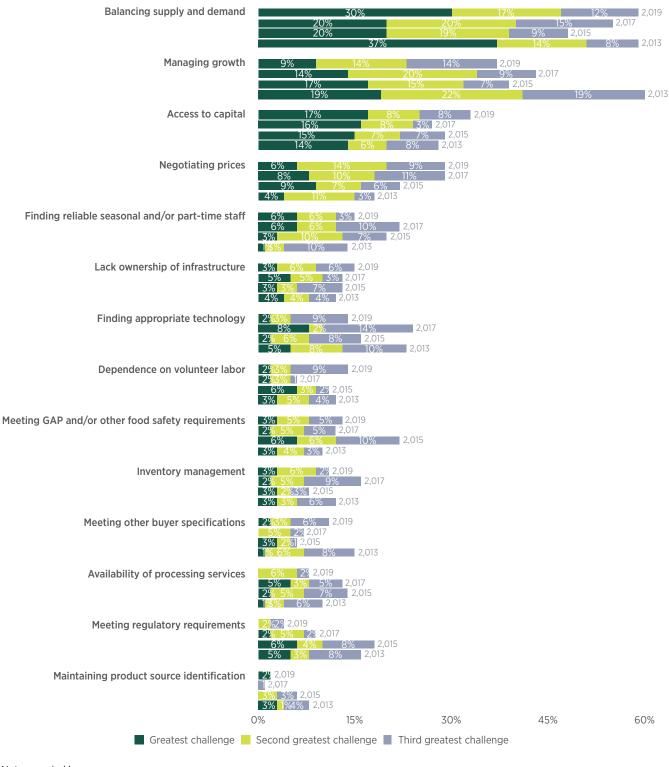
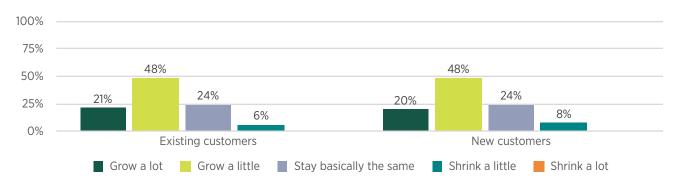


Figure A15. Top Challenges for Food Hubs by Year



Note: *n* varied by year.

Figure A16. Perceived Change in Competition for New and Existing Customers Through 2021



Note: n = 66.

Figure A17. All Barriers to Expansion Into the College/University and Hospital Market

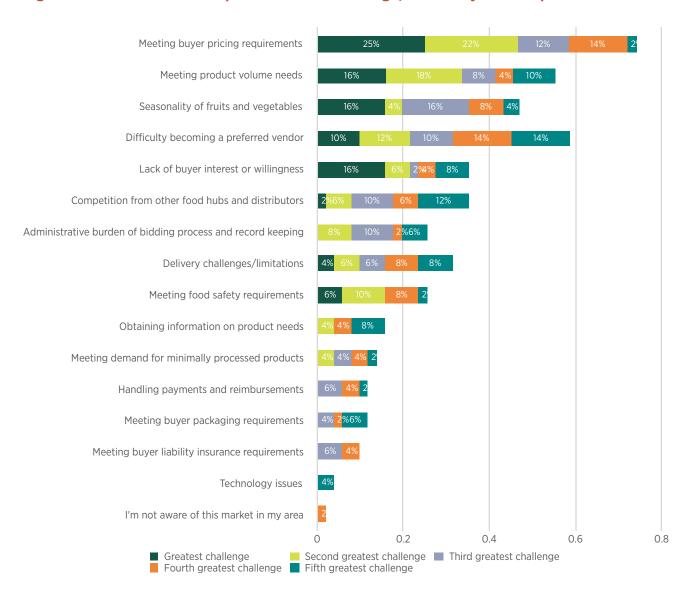
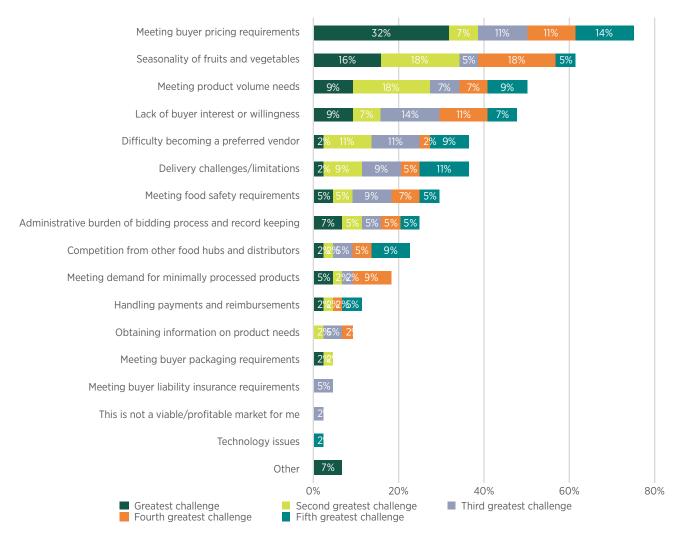
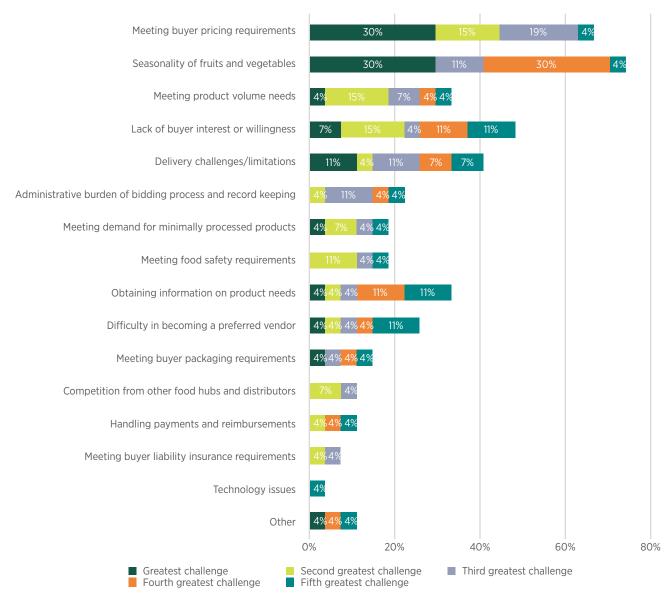


Figure A18. All Barriers to Expansion Into the K-12 School Food Service Market



Note: *n* = 44.

Figure A19. All Barriers to Expansion Into the ECE and Pre-K Food Service Market



Note: n = 27.

Appendix B

Tools, Software, and/or Platforms Used to Track and Assess Metrics Related to Social and Environmental Goals

- » Aggregator
- » Apricot-data software
- » Edible Software, grower satisfaction survey conducted by evaluation consultant; Facebook/ Google/Web analytics/Mailchimp analytics, customer satisfaction survey conducted via staff interviews or SurveyMonkey; risk assessment of eco-production practices audited and analyzed by IPM Institute of North America using their Pesticide Risk Tool
- » eTapestry
- » Excel alone (x6)
- » Excel, Google Docs, Market Mobile software
- » General ledger, Xero.com, Electronic Benefits Transfer matching program, Excel, organic certification
- » Google Docs
- » Harvest to Market, Local Food Marketplace, Xero, Google suite
- » JustFoodERP. Excel
- » Local Food Marketplace, QuickBooks, Excel
- » Microsoft Office, Trello, Mailchimp, Local Line (food hub software)
- » None; we do not have the resources to do this
- » QuickBooks alone (x2)
- » QuickBooks and Excel alone (x9)
- » QuickBooks, Excel, customer relationship software
- » QuickBooks, Excel, Google Sheets, Local Orbit

- » QuickBooks, Excel, Local Farm Marketplace
- » QuickBooks, Excel, Local Food Marketplace, Google Documents
- » QuickBooks, Google Drive, Google Documents
- » QuickBooks, Google Drive, Local Food Marketplace, Microsoft suite
- » QuickBooks, Google Sheets
- » QuickBooks, JotForm, Google Sheets
- » QuickBooks, Local Food Marketplace, HubSpot, Google Drive, Google Sheets, Google Docs, Pages
- » QuickBooks, proprietary software
- » Salesforce, Excel, Local Food Marketplace
- » Salesforce, Food Connex, QuickBooks