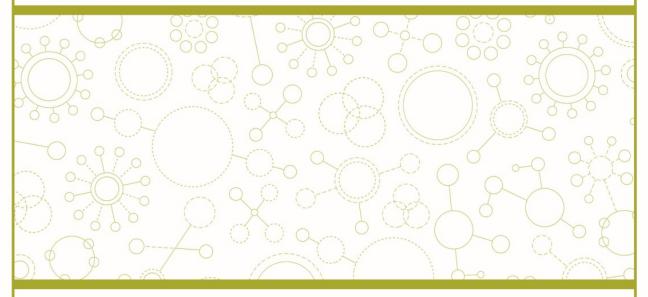
Farmers Market Aggregation

AN ANALYSIS OF ENTERPRISE SUSTAINABILITY AND FARM OPERATOR PARTICIPATION

Authored by Ryan Pesch



renewing the countryside (



In partnership with

Farmers Market Aggregation

AN ANALYSIS OF MARKET SUSTAINABILITY AND FARMER IMPACT

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Authored by Ryan Pesch, Extension Educator, University of Minnesota Extension

Editor:

Elyse Paxton, Senior Editor

Report Reviewers:

Sara George, manager, Wabasha Farmers Market, and vice president, Minnesota Farmers Market Association

Jane Jewett, associate director, Minnesota Institute for Sustainable Agriculture, University of Minnesota

Jan Joannides, executive director, Renewing the Countryside

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EXECUTIVE SUMMARY

The farmers market aggregation project is three-year pilot project started in 2018 to test the financial viability of multiple farmers market vendors selling products together. In the pilot, participating vendors sell to customers via an online ordering system for pickup at their physical farmers market location. The project is a collaboration between the Minnesota Farmers Market Association (MFMA), Renewing the Countryside, and Minnesota Institute for Sustainable Agriculture (MISA). Extension conducted an analysis of the 2019 financial performance of farmers markets and farmers market vendors to measure the economic effects of the project.

The economic fundamentals for the farmers market aggregation project —to increase vendor sales to offset marketing costs incurred by selling at a farmers market—were sound. Sales performance, however, fell short of requirements during the first two years of the project, limiting the enterprise's work.

Extension gathered both farm financial and marketing cost data from 17 farm operations, some of which participated in the aggregation project and some that did not to compare the financial impacts on the farms. The project's purpose was to measure the impact of the aggregation project on participating farms and understand the context in which farm operators make marketing decisions. To do this, Extension conducted a farm financial analysis of each farm to understand the contribution of their aggregation sales, if any. Furthermore, Extension also collected data on the marketing costs associated with each market outlet through which they sold their products including mileage, fees, advertising, and time. Economic impacts were minimal—aggregation sales were less than 2 percent of total sales for participating farms—but a marketing mix analysis of returns and costs for marketing channels was useful to illuminate the trade-offs farm operators face between how they sell their products, whether through farmers market aggregation or another outlet. This report presents the results of Extension's analysis of the aggregation enterprise and the marketing mix of farm operators who participated in the study.

Main findings

- Farmers markets are an important marketing channel—but also the least profitable overall. All farm operators who participated in the study reported selling at one or more farmers markets, and farmers market sales comprised 51 percent of the group's total sales. When compared to other marketing channels by returns to marketing costs, however, farmers markets were the least profitable. For study participants, the gross marketing margin for farmers markets was 67 percent—that is, vendors retained 67 cents of every dollar after subtracting marketing costs associated with selling at the market. The farmers market was the least profitable marketing channel for the study group, lower than wholesale and Community Supported Agriculture (CSA) and 92 and 86 percent gross margins respectively.
- Aggregation sales should improve returns at farmers markets. An analysis of participating farmers who sold through the aggregation enterprise showed they improved their return over marketing costs at farmers markets. These sales offset marketing costs at the market, assuming the direct cost of participation was minimal. With the overall gross marketing margin for farmers markets at 67 percent, any sales through the aggregation

enterprise will raise the margin, since the aggregation margin stands at 87 percent according to data collected from study participants Vendor sales through aggregation were minor; however, with average sales per supplier at \$218 in 2019, it stands to reason that each vendor has a threshold below which it is not "worth it" to participate, even if sales would increase the return to a farmers market and costs of participation were minimal.

• Farmers markets will need about \$20,000 in sales to breakeven. Based on cost estimates from the four farmers markets that had significant sales in 2019—Chisago, Grand Rapids, Rochester, and Wabasha—they will need to earn about \$2,900 annually through aggregation fees to breakeven. At a 14 percent markup (which participating markets have been using to date), a market would need \$20,000 in sales through aggregation. The market share product where products from multiple farms are used to assemble a box for a customer is key to reaching \$20,000 in sales, as it accounted for 51 percent of total aggregation sales in 2019.

PERFORMANCE OF FARMERS MARKET AGGREGATION ENTERPRISE

In 2019, eight farmers markets participated in the aggregation project, a grant-funded pilot initiative. Throughout the season, market managers tracked their efforts and expenses. Since the lion's share of expenses for any market doing an aggregation project is labor, Extension analyzed the labor inputs by activity in detail, categorizing the hours of work by type for all eight participating farmers markets. Labor inputs were divided into three main functions: sales and marketing, operations, and back office (Figure 1).

- Sales and marketing: Hours spent directly arranging sales between vendors and buyers.
- Operations: Time focused on handling orders and product.
- Back office: Work related to overhead, such as bookkeeping, annual set-up tasks, and all grant-related coordination and reporting.

Figure 1: Total and percent of labor by activity for all participating market managers (red = back office, blue = sales and marketing, yellow = operations)

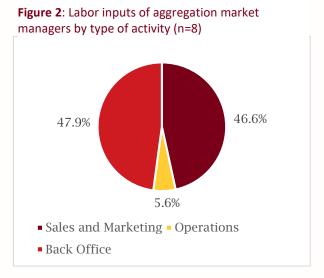
Activity	Total Hours	Percent of Total
Project team contact	172.4	18%
Vendor contact	142.5	15%
Buyer contact	100.1	11%
Setting up online platform	85.4	9%
Training	84.5	9%
Managing online platform	74.0	8%
Community contact	66.6	7%
Managing market stall	56.8	6%
Reporting	44.0	5%
Bookkeeping	29.4	3%
Checking in produce	23.0	2%
Supply acquisition	19.0	2%
Licensing	13.1	1%
Managing supplies	12.8	1%
Delivery	10.4	1%
Packing and Sorting Product	4.8	1%

During the 2019 pilot, the largest subcategory of time for all participating market managers was project team contact, followed by the task of communicating with vendors and buyers. The distribution of time by subcategory makes intuitive sense. As a new initiative during the pilot phase of coordinating across eight markets in the state, one would expect a fair amount of time

spent on grant reporting tasks and project team coordination. However, as market managers find efficiencies and move past the grant-funded pilot stage, some of these back office tasks should dissipate. If reporting and project team tasks were dropped, market managers would decrease their time by nearly a quarter.

Overall, market managers spent the most time on back office tasks (47.9 percent), sales and marketing (46.6 percent), and operations (5.5 percent).

Variation existed between the eight markets. The four farmers markets with few sales through aggregation spent very little time on



operations, as they only handled a few transactions. However, the general pattern of splitting time between the back office and sales and marketing tasks held (Figure 3).

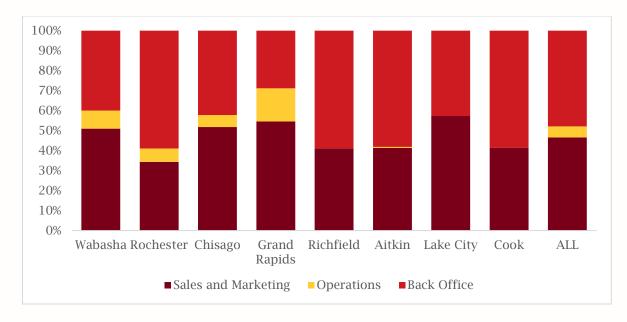


Figure 3: Percent of market manager time on aggregation by activity (n=8)

SUSTAINABILITY OF FARMERS MARKET AGGREGATION

At the end of the 2019 season, each market manager projected direct costs to continue the aggregation project at their farmers markets, as well as their estimates of time to manage the effort. Extension used the figures from the four farmers markets with the most sales (Grand

Aggregation Market

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Rapids, Wabasha, Chisago, and Rochester) for analysis since they provided the most insight into the costs and returns of operating an aggregation enterprise (Figure 4).

Clearly, no market manager reached enough in sales in 2019 to breakeven on their aggregation enterprise that included a 14 percent markup on sales. To understand what it would take to breakeven, market managers projected future costs that aggregation fees would need to cover to reach sustainability. All market managers reported they would have direct costs in licensing, website subscription, and operations (e.g., mileage and supplies). Some market managers also expect aggregation efforts to cover some insurance and utility costs (Figure 4). Each market manager also estimated the labor hours to manage aggregation efforts. Chisago City was on the low end, having estimated 59 hours for the season. Grand Rapids was on the high end at 207 hours. Extension estimated breakeven sales for each market based on a 14 percent mark up and proposed costs per market.

Figure 4: Sustainability estimates by market (n=4)

	Chi	isago City	Gra	and Rapids	Ro	chester	W	'abasha
2019 Sales	\$	2,257	\$	1,386	\$	4,739	\$	6,388
2019 Net Revenue from Mark-up (14%)	\$	316	\$	194	\$	663	\$	894
Direct costs (sustainabilty est)								
License	\$	57	\$	57	\$	57	\$	57
Website subscription	\$	500	\$	333	\$	333	\$	333
Insurance	\$	-	\$	192			\$	260
Mileage	\$	52	\$	312	\$	95	\$	560
Supplies	\$	260	\$	260	\$	500	\$	100
Utilities			\$	78			\$	100
Subtotal	\$	869	\$	1,232	\$	985	\$	1,410
Labor costs (sustainability est.)								
Hours		59		207		185		100
Cost of labor@\$15/hr	\$	885	\$	3,105	\$	2,775	\$	1,500
Total costs	\$	1,754	\$	4,337	\$	3,760	\$	2,910
Breakeven Gross Sales	\$	12,525	\$	30,979	\$	26,857	\$	20,786
Breakeven Net Sales	\$	10,772	\$	26,642	\$	23,097	\$	17,876

Using the average estimates from the top four markets, Extension created a ballpark budget for markets to use for planning the 2020 season (Figure 5). This budget provides a sales target and expense budget that market managers can aim toward to approach breakeven. Generally, a market would need about \$20,000 in gross sales (with markup included) to cover approximately \$2,900 in average costs.

Figure 5: Breakeven estimate for aggregation enterprise based on average of four markets

Direct costs (sustainabilty est)	TYPIC	AL BUDGET
License	\$	57
Website subscription	\$	333
Insurance	\$	226
Mileage	\$	255
Supplies	\$	280
Utilities	\$	89
Subtotal	\$	1,240
Labor costs (sustainability est.)		
Hours		110
Cost of labor@\$15/hr	\$	1,650
Total costs	\$	2,890
Breakeven Gross Sales	\$	20,640
Breakeven Net Sales	\$	17,751

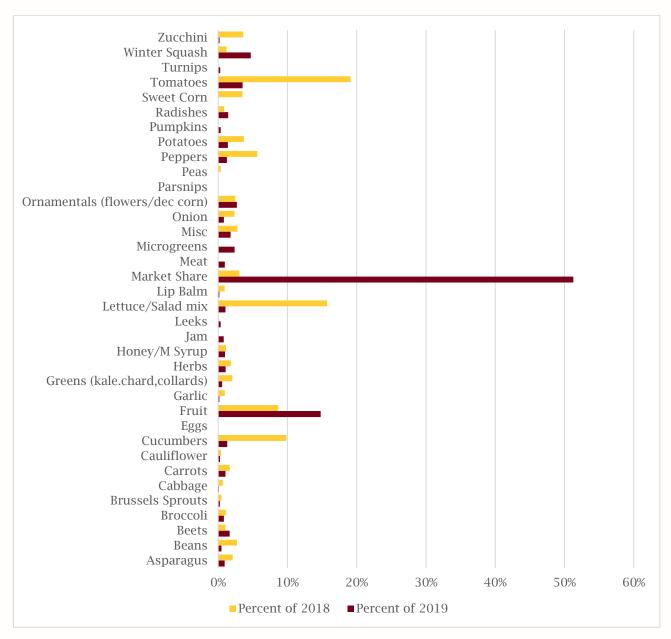
PRODUCT MIX SCENARIOS FOR MARKETS TO BREAKEVEN

To breakeven, each market manager will need to sell a mix of products from a mix of vendors. In 2019, vendors at participating markets sold \$218 on average for the season. When comparing 2018 sales to 2019 sales by vendor, no discernable change in pattern existed between some vendors selling less and others selling more. The largest product change from 2018 to 2019, however, came from the introduction of the market share program (a mixed box of products aggregated from multiple vendors) by Wabasha's market manager. In 2019, the market share offering accounted for 51 percent of all sales at participating markets (Figure 6).

Aggregation Market

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Figure 6: Product mix sold through aggregation enterprise in 2018 and 2019



Assuming an average market manager needs \$20,000 in gross sales to breakeven, Extension calculated two scenarios for a product mix to reach this goal. These calculations are based on the proportion of products sold in 2019 with and without a market share program:

Figure 7: Estimated sales of products to reach \$20,00 breakeven target, with and without market share

	Percent of 2019	With Marketshare	Without Marketshare
Asparagus	1%	\$187	\$384
Beans	0%	\$96	\$197
Beets	2%	\$333	\$682
Broccoli	1%	\$165	\$340
Brussels Sprouts	0%	\$48	\$99
Cabbage	0%	\$23	\$47
Carrots	1%	\$211	\$434
Cauliflower	0%	\$53	\$110
Cucumbers	1%	\$259	\$532
Eggs	0%	\$6	\$11
Fruit	15%	\$2,959	\$6,073
Garlic	0%	\$34	\$71
Greens (kale.chard,collards)	1%	\$111	\$228
Herbs	1%	\$216	\$444
Honey/M Syrup	1%	\$194	\$399
Jam	1%	\$160	\$329
Leeks	0%	\$70	\$144
Lettuce/Salad mix	1%	\$210	\$431
Lip Balm	0%	\$33	\$67
Market Share	51%	\$10,254	\$0
Meat	1%	\$191	\$391
Microgreens	2%	\$475	\$975
Misc	2%	\$357	\$732
Onion	1%	\$162	\$332
Ornamentals (flowers/dec corn)	3%	\$540	\$1,109
Parsnips	0%	\$5	\$9
Peas	0%	\$6	\$12
Peppers	1%	\$254	\$520
Potatoes	1%	\$279	\$572
Pumpkins	0%	\$72	\$149
Radishes	1%	\$291	\$597
Sweet Corn	0%	\$0	\$0
Tomatoes	4%	\$706	\$1,449
Turnips	0%	\$58	\$118
Winter Squash	5%	\$940	\$1,929
Zucchini	0%	\$40	\$82

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MARKETING MIX OF FARMERS

The success of the aggregation project hinges on the ability of market managers to recruit participating vendors. This supply issue is complicated by the often complex marketing mix of farmers market vendors who often attempt to serve many outlets and customers (Figure 8). In this situation, growers will favor supplying outlets with the best pricing and demand. With several competing market channels, farm operators will substitute or not engage an outlet without steady demand or pricing if other market channels are also demanding their products.

To understand how aggregation as a market outlet fits within the overall financial viability of commercial vegetable operations, Extension collected data from 17 farms about production and marketing costs to benchmark and compare their financial performance. Marketing costs related to each market outlet are most useful for understanding the relative importance of each market outlet; however, the benchmarks also provide a useful snapshot of commercial vegetable farms that primarily direct market. See Appendix A for details.

Figure 8: Marketing mix of farm operations that participated in study (n=16)

	Sales	No. of market channels	No. of Farmers Markets	CSA	Farm Stand	Direct-to-retail or restaurant	Wholesale or Food Hub	Aggregation *any year	Other
Farm A	\$12,329	2	4					•	
Farm B	\$29,912	4	1			•		•	•
Farm C	\$53,399	4	1	•	•	•			
Farm D	\$53,637	3	2			•	•		
Farm E	\$109,669	4	1			•		•	•
Farm F	\$1,600	1	1						
Farm G	\$309	2	1					•	
Farm H	\$47,437	3	2	•			•	•	
Farm I	\$40,394	2	7		•				
Farm J	\$14,138	5	2	•	•		•		•
Farm K	\$966	2	1					•	
Farm L	\$9,642	2	1					•	
Farm M	\$264,429	5	1	•		•	•		•
Farm N	\$33,790	8	4			•			•
Farm O	\$26,283	5	6		•	•	•		•
Farm P	\$18,518	2	1						

Farmers who direct market also commonly double up on market channels. In these cases, a farmer will deliver products to an outlet when already en route to another. This increased efficiency decreases the total marketing costs per dollar of sale.

An Example of Combined Market Channels

One participating farm operator had two wholesale accounts (a grocery and a retail establishment). All three deliveries to the grocery (outlet 1) were delivered when in town for a farmers market. Deliveries to retail establishments were part of a CSA route. The combined return over marketing at the farmers market and grocery together was greater than each outlet alone (Figure 9).

Figure 9: Marking Mix from Example Participating Farm

	Wh	nolesale	Oı	utlet 1	FM	C	omb.	Oı	utlet 2	CSA	C	omb.
Sales	\$	2,047	\$	272	\$ 3,549	\$	3,821	\$	1,464	\$ 36,693	\$:	38,157
Costs per trip:												
Travel (RT miles)		50		50	50		50		64	184		184
Travel time (hrs)		0.8		1	1		1		1.3	3		3
Selling time (hrs)		0.2		0.2	3.5		3.7		0.5	0.5		1
Mileage cost	\$	27	\$	27	\$ 27	\$	27	\$	35	\$ 100	\$	100
Travel time cost	\$	12	\$	15	\$ 15	\$	15	\$	20	\$ 45	\$	45
Selling time cost	\$	3	\$	3	\$ 53	\$	56	\$	8	\$ 8	\$	15
No of trips		6		4	12		12		12	16		16
Cost per season	\$	254	\$	181	\$ 1,137	\$	1,173	\$	743	\$ 2,444	\$	2,564
Annual Costs												
Supplies					\$ -					\$ 580	\$	580
Market fees					\$ -							
Total Marketing Costs	\$	254	\$	181	\$ 1,137	\$	1,173	\$	743	\$ 3,024	\$	3,144
Return over Marketing	\$	0.88	\$	0.33	\$ 0.68	\$	0.69	\$	0.49	\$ 0.92	\$	0.92

MARKETING MIX CONTEXT FOR FARM OPERATIONS PARTICIPATING IN STUDY

A marketing mix analysis is helpful for comparing the return over marketing costs in an applesto-apples fashion. In this study, Extension gathered data from participating farms about their marketing costs and sales by market channel and outlet. All told, the 16 participating farms sold through 51 outlets. To understand the relative profitability of each market channel, Extension calculated return over marketing costs for individual farms, as well as an overall average for those participating in each market channel.

Figure 10: Total Marketing Costs by Outlet (n=16)

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		FM	CSA	Stand		Direct	٧	/holesale	All
Sales	\$	316,519	\$ 119,390	\$ 21,017	\$	46,251	\$	118,628	\$ 621,805
Aggegation Sales									
Costs per trip:									
Travel (RT miles)		96.2	285.6	0.4		85.4		99.3	79.9
Travel time (hrs)		280.0	157.9	0.1		2.1		1.8	150.7
Selling time (hrs)		1143.4	3398.9	0.3		0.7		1.3	788.7
Mileage cost	\$	556	\$ 3,162	\$ 0	\$	47	\$	49	\$ 486
Travel time cost	\$	4,199	\$ 2,365	\$ 2	\$	32	\$	27	\$ 2,261
Selling time cost	\$	1,460	\$ 1,318	\$ 7	\$	11	\$	19	\$ 820
No of trips		650	82	370		129		65	1296
Cost per season	\$	93,173	\$ 11,140	\$ 3,155	\$	9,129	\$	6,165	\$ 122,761
Annual Costs									
Market fees/supplies	\$	12,632	\$ 5,030	\$ 114	\$	905	\$	3,261	\$ 21,942
Total Costs	\$ 10	05,804.50	\$ 16,170.25	\$ 3,268.20	\$1	10,034.39	\$	9,425.52	\$ 144,703
Return over Marketing Costs	\$	0.67	\$ 0.86	\$ 0.84	\$	0.78	\$	0.92	\$ 0.77

For this aggregation project, marketing costs associated with farmers markets were the most important to consider. Five of the seven participating farm operators did so through a farmers market in which they were already a member. Great variation existed between farms regarding total costs, returns, and sales. The highest-grossing farm sold more than \$92,000 at 60 farmers market days, whereas the lowest-grossing farm sold just \$300 at two markets. The range across other variables was equally as great (Figure 11).

Figure 11: Marketing Costs for Farms Participating in Aggregation Project (n=7)

		Lowest Return	Highest Return	All Farms
	Range	Farm F	Farm H	OVERALL
Sales	\$306 to \$92,207	\$1,600	\$24,545	\$316,519
Costs per trip:				
Travel (RT miles)	10 to 140 miles	38.0	46.0	69.7
Travel time (hrs)	20 min to 2.2 hours	0.8	2.0	1.5
Selling time (hrs)	3 to 12 hours	6.0	6.5	5.6
Mileage cost	\$5.50 to \$65.90	\$21	\$25	\$38
Travel time cost	\$3.80 to \$30.00	\$12	\$30	\$22
Selling time cost	\$45.00 to \$180.00	\$90	\$98	\$84
No of trips	2 to 147 trips	30	20	650
Cost per season	\$211 to \$22,841	\$3,681	\$3,051	\$93,173
Annual Costs				
Market fees/supplies	\$0 to \$3,434	\$150	\$965	\$12,632
Total Costs	\$211 to \$24,761	\$3,831	\$4,016	\$105,805
Return over Marketing Costs	From -1.39 to 0.84	-1.39	0.84	0.67

AGGREGATION WITHIN MARKETING MIX

During the project's pilot phase, aggregation sales were a small percentage of the seven participants' marketing mix, comprising 1.9 percent of total farm sales.

Five of the seven farms that participated in the project did so through their farmers market. For these farm operators, sales via the aggregation project accounted for 1.2 percent of their total sales. In this context, the impact of aggregation sales on farm operations was small and difficult to measure. However, assuming aggregation sales are in addition to general farmers market sales (rather than substituting for these sales), Extension calculated returns over marketing costs in the farmers market marketing channel in two ways. One with and one without aggregation sales and an associated fee at a 14 percent markup (Figures 12 and 13).

When examining the return over marketing costs in this way, Extension found that aggregation sales did increase the return—but in proportion to the importance of aggregation to total farmers market sales. For example, Farm C increased its return significantly from -1.105 to 0.236 when adding in aggregation sales, whereas the return for Farm B changed slightly from 0.673 to 0.674 (Figure 12).

Figure 12: Sales and Marketing Costs at Farmers Markets Outlets for Aggregation Farms (n=5)

	Farm A	Farm B	Farm C	Farm D	Farm E
Total Farm Sales	\$12,329	\$109,669	\$309	\$966	\$9,542
Farmers Market sales with aggregation	\$12,329	\$18,617	\$309	\$966	\$9,542
Farmers Market sales no aggregation	\$12,310	\$18,473	\$100	\$945	\$9,427
Costs per trip:					
Travel (RT miles)	42.2	80.0	28.0	10.0	60.0
Travel time (hrs)	1.4	2.0	1.0	0.3	1.2
Selling time (hrs)	4.2	5.0	5.0	3.0	7.0
Mileage cost	\$22.99	\$43.60	\$15.26	\$5.45	\$32.70
Travel time cost	\$21.02	\$30.00	\$15.00	\$4.50	\$18.00
Selling time cost	\$62.43	\$75.00	\$75.00	\$45.00	\$105.00
No of trips	68	40	2	10	25
Cost per season	\$7,238	\$5,944	\$211	\$550	\$3,893
Annual Costs					
Market fees/supplies	\$740	\$100	\$0	\$35	\$0
Aggregation fees	\$2	\$18	\$26	\$3	\$14
Total costs with aggregation	\$7,980	\$6,062	\$236	\$587	\$3,907
Total costs without aggregation	\$7,978	\$6,044	\$211	\$585	\$3,893
Return over Marketing Costs (with aggregation)	0.353	0.674	0.236	0.392	0.591
Return over Marketing Costs (without aggregation)	0.352	0.673	-1.105	0.381	0.587

When grouping all five farm operators who aggregated their farmers markets together, the effect of aggregation sales is more observable. Total aggregation sales between the five farms were \$556, with \$62 going to the market as fees through a 14 percent markup. Without aggregation sales, the group would have sold \$41,255 and had \$18,709 in annual marketing costs, for a 0.547 gross margin or return over marketing costs. After including \$508 in aggregation sales and \$62 in aggregation fees, the group had a 0.552 gross market or return over marketing costs (Figure 13).

Figure 13: Comparison of Farms with and without Aggregation at Farmers Market Outlet (n=5)

	Gr	oup with	Grou	up without
		Group with		•
ENA Salas		gregation		gregation
FM Sales	\$	41,255	\$	41,255
Aggegation Sales at FM	_	\$508		
Total Sales	\$	41,763	\$	41,255
Costs per trip:				
Travel (RT miles)		53.3		53.3
Travel time (hrs)		1.5		1.5
Selling time (hrs)		4.8		4.8
Mileage cost		\$29		\$29
Travel time cost		\$22		\$22
Selling time cost		\$72		\$72
No of trips		48		48
Cost per season		\$17,834		\$17,834
Annual Costs				
Market fees/supplies		\$875		\$875
Aggregation fees		\$62		
Total costs		\$18,771		\$18,709
Return over Marketing Costs		0.552		0.547

To put these figures into perspective, the increase in sales more than covered the increase in marketing costs, which, in this case, are the aggregation fees. Whether aggregation sales will increase or decrease profitability at a farmers market depends on a farm's relative gross margin on marketing at its farmers market. Since aggregation fees are a 14 percent markup on product, the gross margin on marketing is 87.8 percent. If a farm's gross marketing margin were 90 percent, the addition of aggregation sales would decrease its returns. If a farm had a gross marketing margin of 40 percent, the addition of aggregation sales and costs would increase their returns.

Since the average gross marketing margin was 67 percent at farmers markets for participating farms, taking part the participation in the aggregation project made sense as a way to increase sales and see a better return on marketing costs already incurred at an existing farmers market. This assumes, however, that the additional costs of participating in aggregation are the aggregation fees themselves, and any other costs are minimal. From conversations with farm operators who aggregated product through a farmers market, this assumption holds true due to the efforts of market managers who work to make it easy for vendors to participate.

The benefit of aggregation sales is much the same as for the combined outlet example (Figure 9). Stacking additional sales on top of farmers market sales helps offset marketing costs, and thereby increases the return over marketing cost.

Vegetables, Assorted 2019; Owned Land

Benchmark Report, 17 Enterprises

benchmark Report, 17 Ente	erprises											
	Group											
	Median	Count	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
			1070	2070	0070	40 70	0070	0070	1070	30 70	0070	10070
Yield per acre (\$)	9,487.00	17	1.00	4,571.43	6,366.50	7,683.16	9,155.00	9,773.70	12,031.38	22,722.13	26,037.63	163,970.00
Value per unit	1.00	17	0.00	0.00	0.50	1.00	1.00	1.00	1.00	1.00	1.00	2,254.00
Total product value	9,051.00	17	0.00	0.00	1,127.00	5,304.46	7,017.75	9,155.00	10,753.25	16,897.02	24,175.75	27,417.25
Gross return	9,051.00	17	0.00	0.00	1,127.00	5,304.46	7,017.75	9,155.00	10,753.25	16,897.02	24,175.75	27,417.25
Seed and plants	757.64	16	10,320.00	1,757.89	1,479.31	1,254.21	1,090.90	458.53	310.38	255.13	168.05	142.31
Fertilizer	274.15	10	2,705.26	545.60	313.48	300.00	293.85	254.45	240.00	114.00	64.50	36.20
Crop chemicals	0.00	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Packaging and supplies	243.74	12	24,240.00	3,742.11	1,476.92	750.00	390.61	133.33	100.00	86.09	16.50	11.54
Fuel & oil	517.48	12	14,850.00	2,769.37	1,553.59	1,268.42	850.39	322.13	181.54	110.45	68.35	12.50
Repairs	428.57	11	10,512.50	1,792.00	1,094.74	505.22	456.25	372.94	186.83	106.92	103.00	36.75
Hired labor	0.00	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Utilities	0.00	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Marketing	559.46	14	37,890.00	1,720.00	1,528.00	1,231.75	740.98	516.00	257.68	202.55	60.00	45.50
Organic certification	0.00	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Miscellaneous	0.00	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total direct expenses	4,750.43	17	160,390.00	18,975.63	9,977.45	8,041.50	5,708.13	4,129.47	2,714.02	2,253.40	440.16	0.00
Return over direct expenses	3,543.55	17	-160,390.00	-12,938.13	-6,994.87	1,594.45	2,482.07	4,980.40	7,115.89	10,501.80	20,329.50	23,693.50
Real estate taxes	0.00	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Farm insurance	0.00	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dues & professional fees	0.00	o 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Machinery depreciation	0.00	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Miscellaneous	0.00	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Added Expense	1,921.93	10	7,606.00	2,880.00	2,824.50	2,610.00	1,955.29	1,888.57	1,259.00	848.40	789.23	201.67
Total overhead expenses	2,321.57	17	32,580.53	9,496.00	6,220.00	3,176.06	2,948.37	2,256.78	2,028.65	663.94	458.28	0.00
Total dir & ovhd expenses	8.888.64	17	166.650.00	44,059.47	16,949.75	10.740.59	9.246.64	7.787.89	6,143.87	4.409.70	1,104.10	0.00
Net return	3,130.86	17	-166,650.00	-44,059.47	-9,036.70	-2,640.21	761.63	3,136.31	5,213.56	8,208.77	14,266.20	23,693.50
Not return	3,130.00	.,	-100,030.00	-44,000.47	-5,050.70	-2,040.21	701.00	0,100.01	0,210.00	0,200.77	14,200.20	20,030.00
Government payments	0.00	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Net return with govt pymts	3,130.86	17	-166,650.00	-44,059.47	-9,036.70	-2,640.21	761.63	3,136.31	5,213.56	8,208.77	14,266.20	23,693.50
Labor & management charge	0.00	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Net return over lbr & mgt	3,130.86	17	-166,650.00	-44,059.47	-9,036.70	-2,640.21	761.63	3,136.31	5,213.56	8,208.77	14,266.20	23,693.50
Direct cost of prod per unit	0.39	17	509.10	3.14	1.20	0.78	0.57	0.38	0.27	0.23	0.13	0.00
Dir & ovhd cost of prod/unit	0.65	17	1,047.75	5.49	2.59	1.05	0.85	0.62	0.53	0.46	0.25	0.00
COP less govt & other income	0.65	17	1,047.75	5.49	2.59	1.05	0.85	0.62	0.53	0.46	0.25	0.00
Cost of prod with lbr & mgt	0.65	17	1,047.75	5.49	2.59	1.05	0.85	0.62	0.53	0.46	0.25	0.00
Machinery cost per acre	1,516.63	17	22,170.00	14,850.00	9,000.94	2,595.62	1,738.43	1,394.41	600.93	282.06	50.00	0.00
Est. labor hours per acre	0.00	17	543.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
•		-										

Benchmark Report, 17 Farms

	Group Median	Count	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Net farm income	10,166	17 [-19,517	-12,423	-2,730	-760	4,087	11,367	12,863	25,714	34,927	61,826
Rate of return on assets (cost)	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rate of return on equity (cost)	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Operating profit margin (cost)	22.7	17	-3,312.9	-253.7	-30.9	-5.1	10.8	24.8	39.1	45.6	60.3	72.3
Asset turnover rate (cost)	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rate of return on assets (mkt)	4.3	17	-10.6	-9.8	-2.4	-0.9	1.4	5.1	12.8	15.2	17.6	19.9
Rate of return on equity (mkt)	3.9	17	-5.7	-3.2	-1.7	-0.5	2.5	7.9	16.5	19.5	21.0	23.1
Operating profit margin (mkt)	22.7	17	-3,312.9	-253.7	-30.9	-5.1	10.8	24.8	39.1	47.1	60.3	72.3
Asset turnover rate (mkt)	20.1	17	0.3	1.0	2.6	6.7	9.1	20.7	30.7	54.7	108.7	495.5
Current ratio	0.64	17	0.06	0.11	0.24	0.26	0.55	0.94	1.28	1.48	3.71	21.91
Working capital	1,500	17	-64,404	-13,298	-6,985	-3,213	522	1,743	3,210	16,589	30,303	47,036
Working capital to revenue ratio	11.5	17	-3,546.1	-68.0	-36.7	-7.4	2.9	11.5	16.4	27.9	51.4	144.3
Term debt coverage ratio	1.04	17	-2.56	0.00	0.00	0.68	0.94	1.16	1.35	2.12	2.65	4.64
Replacement coverage ratio	1.16	17	-29.80	-4.90	-0.95	0.79	1.04	1.28	1.98	2.58	2.70	6.27
Term debt to EBITDA	0.00	17	167.53	13.99	7.96	4.26	0.36	0.00	0.00	-10.04	-151.83	-439.06
Farm debt to asset ratio	37	17	2,373	189	166	87	55	35	19	0	0	0
Total debt to asset ratio	40	17	109	103	74	57	42	30	15	0	0	0
Change in earned net worth %	0	17	0	0	0	0	0	0	0	0	0	0
Total crop acres	2	17	0	0	0	0	1	2	3	4	13	22
Crop acres owned	2	17	0	0	0	0	1	2	3	4	13	22
Crop acres cash rented	0	17	0	0	0	0	0	0	0	0	0	0
Crop acres share rented	0	17	0	0	0	0	0	0	0	0	0	0
Machinery investment per acre	0	17	5,608	0	0	0	0	0	0	0	0	0

Financial Summary (Farms Sorted By Years)

	Avg. Of All Farms	2019
Number of farms	17	17
Income Statement		
Gross cash farm income	51,359	51,359
Total cash farm expense	39,004	39,004
Net cash farm income	12,355	12,355
Inventory change Depreciation	2,188 -2,730	2,188 -2,730
Net farm income from operations	-2,730 11,813	-2,730 11,813
Gain or loss on capital sales	11,019	11,013
Average net farm income	11,813	11,813
Median net farm income	10,166	10,166
Profitability (cost)		
Rate of return on assets	- %	- %
Rate of return on equity	- %	- %
Operating profit margin	- %	- %
Asset turnover rate	- %	- %
Profitability (market) Rate of return on assets	4.5 %	4.5 %
Rate of return on equity	7.2 %	7.2 %
Operating profit margin	25.1 %	25.1 %
Asset turnover rate	17.8 %	17.8 %
Liquidity & Repayment (end of year)		
Current assets	11,908	11,908
Current liabilities	8,751	8,751
Current ratio	1.36	1.36
Working capital Change in working capital	3,157 15,648	3,157 15,648
Working capital to gross inc	6.3 %	6.3 %
Term debt coverage ratio	0.39	0.39
Replacement coverage ratio	0.33	0.33
Term debt to EBITDA	46.55	46.55
Solvency (end of year at cost)		
Number of farms	1	1
Total assets	-	-
Total liabilities	-	-
Net worth Net worth change	-	-
Farm debt to asset ratio	- %	- %
Total debt to asset ratio	- %	- %
Change in earned net worth %	- %	- %
Solvency (end of year at market)		
Number of farms	17	17
Total assets	517,932	517,932
Total liabilities	120,919	120,919
Net worth	397,013	397,013
Total net worth change Farm debt to asset ratio	58,533 38 %	58,533 38 %
Total debt to asset ratio	23 %	23 %
Change in total net worth %	17 %	17 %
Nonfarm Information		
Net nonfarm income	32,102	32,102
Crop Acres		_
Total crop acres	4	4
Total crop acres owned	4	4
Total crop acres chare rented	-	-
Total crop acres share rented Machinery value per crop acre	- 367	- 367
washinery value per Grop acre	307	307

Financial Standards Measures (Farms Sorted By Years)

	Avg. Of All Farms	2019
Number of farms	17	17
Liquidity Current ratio Working capital	1.36 3,157	1.36 3,157
Working capital to gross inc	6.3 %	6.3 %
Solvency (market) Farm debt to asset ratio Farm equity to asset ratio Farm debt to equity ratio	38 % 62 % 0.61	38 % 62 % 0.61
Profitability (cost) Rate of return on farm assets Rate of return on farm equity Operating profit margin Net farm income EBITDA	- % - % - % - -	- % - % - % -
Repayment Capacity Capital debt repayment capacity Capital debt repayment margin Replacement margin Term debt coverage ratio Replacement coverage ratio	3,478 -5,513 -7,091 0.39 0.33	3,478 -5,513 -7,091 0.39 0.33
Efficiency Asset turnover rate (cost) Operating expense ratio Depreciation expense ratio Interest expense ratio Net farm income ratio	- % 70.1 % 5.4 % 0.9 % 23.5 %	- % 70.1 % 5.4 % 0.9 % 23.5 %

Summary Farm Income Statement (Farms Sorted By Years)

	Avg. Of All Farms	2019
Number of farms	17	17
Crop sales Crop inventory change Gross crop income	44,801 15 44,816	44,801 15 44,816
Livestock sales Livestock inventory change Gross livestock income	979 - 979	979 - 979
Government payments Other cash farm income Change in accounts receivable Gain or loss on hedging accounts Change in other assets Gain or loss on breeding lvst Gross farm income	753 4,826 -369 - -786 -27 50,192	753 4,826 -369 - -786 -27 50,192
Cash operating expenses Change in prepaids and supplies Change in growing crops Change in accounts payable Depreciation Total operating expense	38,561 93 -216 -3,233 2,730 37,936	38,561 93 -216 -3,233 2,730 37,936
Interest paid Change in accrued interest Total interest expense Total expenses	443 443 38,379	443 - 443 38,379
Net farm income from operations Gain or loss on capital sales	11,813 -	11,813 -
Net farm income	11,813	11,813

Profitability Measures (Farms Sorted By Years)

	Avg. Of All Farms	2019
Number of farms	17	17
Profitability (assets valued at market)		
Net farm income from operations	11,915	11,915
Rate of return on assets	4.5 %	4.5 %
Rate of return on equity	7.2 %	7.2 %
Operating profit margin	25.1 %	25.1 %
Asset turnover rate	17.8 %	17.8 %
Farm interest expense	443	443
Value of operator lbr and mgmt.	-	-
Return on farm assets	12,358	12,358
Average farm assets	277,299	277,299
Return on farm equity	11,915	11,915
Average farm equity	165,926	165,926
Value of farm production	49,313	49,313

Liquidity & Repayment Capacity Measures (Farms Sorted By Years)

	Avg. Of All Farms	2019
Number of farms	17	17
Liquidity		
Current ratio	1.36	1.36
Working capital	3,157	3,157
Working capital to gross inc	6.3 %	6.3 %
Current assets	11,908	11,908
Current liabilities	8,751	8,751
Gross revenues (accrual)	50,192	50,192
Repayment capacity		
Net farm income from operations	11,813	11,813
Depreciation	2,730	2,730
Personal income	32,102	32,102
Family living/owner withdrawals	-33,895	-33,895
Cash discrepancy	1,318	1,318
Payments on personal debt	-469	-469
Income taxes paid	-171	-171
Interest on term debt	-9,952	-9,952
Capital debt repayment capacity	3,478	3,478
Scheduled term debt payments	-8,991	-8,991
Capital debt repayment margin	-5,513	-5,513
Cash replacement allowance	-1,578	-1,578
Replacement margin	-7,091	-7,091
Term debt coverage ratio	0.39	0.39
Replacement coverage ratio	0.33	0.33

Balance Sheet at Market Values (Farms Sorted By Years)

	Avg. Of All Farms		2	019
Number of farms		17		17
Assets	Beginning	<u>Ending</u>	Beginning	Ending
Current Farm Assets Cash and checking balance Prepaid expenses & supplies Growing crops Accounts receivable Hedging accounts Crops held for sale or feed Crops under government loan Market livestock held for sale Other current assets Total current farm assets	8,954	7,517	8,954	7,517
	1,405	1,311	1,405	1,311
	984	1,200	984	1,200
	1,033	664	1,033	664
	0	0	0	0
	469	484	469	484
	0	0	0	0
	242	242	242	242
	639	491	639	491
	13,726	11,908	13,726	11,908
Intermediate Farm Assets Breeding livestock Machinery and equipment Titled vehicles Other intermediate assets Total intermediate farm assets	265	265	265	265
	25,946	26,223	25,946	26,223
	5,624	7,066	5,624	7,066
	10,953	11,091	10,953	11,091
	42,787	44,645	42,787	44,645
Long Term Farm Assets Farm land Buildings and improvements Other long-term assets Total long-term farm assets Total Farm Assets	153,698	168,354	153,698	168,354
	54,559	56,990	54,559	56,990
	3,941	3,989	3,941	3,989
	212,198	229,332	212,198	229,332
	268,711	285,886	268,711	285,886
Total Nonfarm Assets	197,148	232,046	197,148	232,046
Total Assets	465,860	517,932	465,860	517,932
Liabilities Current Farm Liabilities Accrued interest Accounts payable Current notes Government crop loans Principal due on term debt Total current farm liabilities	2,190	2,190	2,190	2,190
	3,296	63	3,296	63
	1,788	1,696	1,788	1,696
	0	0	0	0
	18,943	4,802	18,943	4,802
	26,217	8,751	26,217	8,751
Total intermediate farm liabs	14,159	12,603	14,159	12,603
Total long term farm liabilities	74,143	86,872	74,143	86,872
Total farm liabilities	114,519	108,226	114,519	108,226
Total nonfarm liabilities	12,861	12,693	12,861	12,693
Total liabs excluding deferreds	127,380	120,919	127,380	120,919
Total deferred liabilities	0	0	0	0
Total liabilities	127,380	120,919	127,380	120,919
Net worth (farm and nonfarm) Net worth excluding deferreds Net worth change Percent net worth change	338,480 338,480	397,013 397,013 58,533 17 %	338,480 338,480	397,013 397,013 58,533 17 %
Ratio Analysis Current farm liabilities / assets Intermediate farm liab. / assets Long term farm liab. / assets Total debt to asset ratio Debt to assets excl deferreds	191 %	73 %	191 %	73 %
	33 %	28 %	33 %	28 %
	35 %	38 %	35 %	38 %
	27 %	23 %	27 %	23 %
	27 %	23 %	27 %	23 %

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Statement Of Cash Flows (Farms Sorted By Years)

	Avg. Of All Farms	2019
Number of farms	17	17
Beginning cash (farm & nonfarm)	12,989	12,989
Cash Provided By Operating Activities Gross cash farm income	51,359	51,359
Total cash farm expense	-39,004	-39,004
Net cash from hedging transactions	-	-
Cash provided by operating	12,355	12,355
Cash Provided By Investing Activities		
Sale of breeding livestock Sale of machinery & equipment	-	-
Sale of fitled vehicles	-	<u>-</u>
Sale of farm land	14,189	14,189
Sale of farm buildings	-	-
Sale of other farm assets	-	-
Sale of nonfarm assets	290	290
Purchase of breeding livestock	-27	-27
Purchase of machinery & equip. Purchase of titled vehicles	-1,976 -1,824	-1,976 -1,824
Purchase of farm land	-1,824 -4,921	-1,824 -4,921
Purchase of farm buildings	-2,942	-2,942
Purchase of other farm assets	-859	-859
Purchase of nonfarm assets	-11,779	-11,779
Cash provided by investing	-9,849	-9,849
Cash Provided By Financing Activities		
Money borrowed	16,846	16,846
Principal payments	-19,478	-19,478
Personal income	32,102	32,102
Family living/owner withdrawals Income and social security tax	-33,895 -171	-33,895 -171
Capital contributions	-171	-111
Capital distributions	_	-
Dividends paid	-	-
Cash gifts and inheritances	-	-
Gifts given	-	-
Other cash flows	- 4 504	- 4 504
Cash provided by financing	-4,594	-4,594
Net change in cash balance	-2,088	-2,088
Ending cash (farm & nonfarm)	12,219	12,219
Discrepancy	-1,318	-1,318

Crop Production and Marketing Summary (Farms Sorted By Years)

	Avg. Of All Farms	2019
Number of farms	17	17
Acreage Summary		
Total acres owned	1	1
Total crop acres	4	4
Crop acres owned	4	4
Crop acres cash rented	-	-
Crop acres share rented	-	-
Total pasture acres	-	-
Percent crop acres owned	100 %	100 %
Mach invest/crop acre cost	260	260
Mach invest/crop acre market	367	367
Average Price Received (Cash Sales	Only)	
Average Yield Per Acre Vegetables, Assorted (\$)	9,043.35	9,043.35

Financial Summary Excluding Deferred Liabilities (Farms Sorted By Years)

	Avg. Of All Farms	2019
Number of farms	17	17
Income Statement Gross cash farm income Total cash farm expense Net cash farm income Inventory change Depreciation Net farm income from operations Gain or loss on capital sales	51,359 39,004 12,355 2,188 -2,730 11,813	51,359 39,004 12,355 2,188 -2,730 11,813
Average net farm income Median net farm income	11,813 10,166	11,813 10,166
Profitability (cost) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	- % - % - % - %	- % - % - % - %
Profitability (market) Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	4.5 % 7.8 % 25.1 % 17.8 %	4.5 % 7.8 % 25.1 % 17.8 %
Liquidity & Repayment (end of year) Current assets Current liabilities Current ratio Working capital Change in working capital Working capital to gross inc Term debt coverage ratio Replacement coverage ratio Term debt to EBITDA	11,908 8,751 1.36 3,157 15,648 6.3 % 0.39 0.33 46.55	11,908 8,751 1.36 3,157 15,648 6.3 % 0.39 0.33 46.55
Solvency (end of year at cost) Number of farms Total assets Total liabilities Net worth Net worth change Farm debt to asset ratio Total debt to asset ratio Change in earned net worth %	1 - - - - - % - % - %	1 - - - - - % - % - %
Solvency (end of year at market) Number of farms Total assets Total liabilities Net worth Total net worth change Farm debt to asset ratio Total debt to asset ratio Change in total net worth %	17 517,932 120,919 397,013 58,533 38 % 23 % 17 %	17 517,932 120,919 397,013 58,533 38 % 23 % 17 %
Nonfarm Information Net nonfarm income	32,102	32,102
Crop Acres Total crop acres Total crop acres owned Total crop acres cash rented	4 4 -	4 4 -
Total crop acres share rented Machinery value per crop acre	367	367

Farm Income Statement (Farms Sorted By Years)

	Avg. Of All Farms	2019
Number of farms	17	17
Cash Farm Income		
Soybeans	1,034	1,034
Vegetables, Assorted	42,468	42,468
Plants, Bedding Plants	667	667
Hay	631	631
Miscellaneous crop income	73	73
Beef Finishing	195	195
Broilers	239	239
Chickens, Egg Production, Eggs	296	296
Hogs, Finish Feeder Pigs	249	249
Other government payments	753	753
Conservation govt payment	378	378
Other farm income	4,375	4,375
Gross Cash Farm Income	51,359	51,359

Farm Income Statement (continued) (Farms Sorted By Years)

	Avg. Of All Farms	2019
Number of farms	17	17
Cash Farm Expense		
Seed and plants	2,643	2,643
Fertilizer	1,045	1,045
Crop chemicals	146	146
Crop insurance	113	113
Packaging and supplies	1,028	1,028
Supplies	5,909	5,909
Crop miscellaneous	217	217
Purchased feed	618	618
Interest	443	443
Fuel & oil	3,074	3,074
Repairs	1,218	1,218
Hired labor	8,063	8,063
Land rent	666	666
Building leases	133	133
Real estate taxes	1,121	1,121
Personal property taxes	159	159
Farm insurance	1,672	1,672
Utilities	1,875	1,875
Marketing	2,252	2,252
Dues & professional fees	290	290
Organic certification	355	355
Purchase of resale items	236	236
Miscellaneous	5,727	5,727
Total cash expense	39,004	39,004
Net cash farm income	12,355	12,355
Inventory Changes		
Prepaids and supplies	-93	-93
Accounts receivable	-369	-369
Hedging accounts	-	-
Other current assets	67	67
Crops and feed	15	15
Market livestock	- -	-
Breeding livestock	-27	-27
Other assets	-637	-637
Accounts payable	3,233	3,233
Accrued interest	-	
Total inventory change	2,188	2,188
Net operating profit	14,543	14,543
Net operating profit	14,040	14,545
Depreciation		
Machinery and equipment	-1,654	-1,654
Titled vehicles	-381	-381
Buildings and improvements	-695	-695
Total depreciation	-2,730	-2,730
Net farm income from operations	11,813	11,813
Gain or loss on capital sales	-	,
No. 1. forms in a super	44.040	44.040
Net farm income	11,813	11,813

Inventory Changes (Farms Sorted By Years)

	Avg. Of All Farms	2019
Number of farms	17	17
Net cash farm income	12,355	12,355
Crops and Feed Ending inventory Beginning inventory Inventory change	484 469 15	484 469 15
Market Livestock Ending inventory Beginning inventory Inventory change	242 242 -	242 242 -
Accts Receivable Ending inventory Beginning inventory Inventory change	664 1,033 -369	664 1,033 -369
Prepaid Expenses and Supplies Ending inventory Beginning inventory Inventory change	1,311 1,405 -93	1,311 1,405 -93
Hedging Activities Ending inventory Withdrawals Beginning inventory Deposits Gain or loss	- - - -	- - - -
Other Current Assets Ending inventory Beginning inventory Inventory change	1,690 1,623 67	1,690 1,623 67
Breeding Livestock Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	265 - 265 27 -27	265 - 265 27 -27
Other Capital Assets Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	14,379 - 14,157 859 -637	14,379 - 14,157 859 -637
Accounts Payable Beginning inventory Ending inventory Inventory change	3,296 63 3,233	3,296 63 3,233
Accrued Interest Beginning inventory Ending inventory Inventory change	2,190 2,190 -	2,190 2,190
Total inventory change	2,188	2,188
Net operating profit	14,543	14,543

FINPACK Score Card Items (Farms Sorted By Years)

	Avg. Of All Farms	2019
Number of farms	17	17
Liquidity Current ratio	1.36	1.36
Working capital Working capital to gross inc	3,157 6.3 %	3,157 6.3 %
Solvency (market)		
Farm debt to asset ratio	38 % 62 %	38 %
Farm equity to asset ratio Farm debt to equity ratio	0.61	62 % 0.61
Profitability (cost)		
Rate of ret on fm assets - mkt	4.5 %	4.5 %
Rate of ret on fm assets - cst	- %	- %
Rate of ret on fm equity - mkt	7.2 % - %	7.2 % - %
Rate of ret on fm equity - cst Operating profit margin - mkt	- 70 - %	- % - %
Operating profit margin - cst	- % - %	- % - %
Net farm income - mkt	11,915	11,915
Net farm income - cst	-	-
EBITDA - cst	-	-
Repayment Capacity		
Capital debt repayment capacity	3,478	3,478
Capital debt repayment margin	-5,513 7,001	-5,513 7,001
Replacement margin Term debt coverage ratio	-7,091 0.39	-7,091 0.39
Replacement coverage ratio	0.33	0.33
Efficiency		
Asset turnover rate (cost)	- %	- %
Asset turnover rate (market)	17.8 %	17.8 %
Operating expense ratio	70.1 %	70.1 %
Depreciation expense ratio Interest expense ratio	5.4 % 0.9 %	5.4 % 0.9 %
Net farm income ratio	23.5 %	23.5 %
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