

Returns and Costs of Niche Pork Production in 2007

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Summary and Implications

Information is provided on the return, cost and financial efficiency for niche pork production. Information from 27 niche pork producers is included in the analysis. Return levels showed that the average return to capital, unpaid labor and management return to capital, unpaid labor and management for the top 9 producers was \$10.29 per hundred pounds of pork produced, while this average was -\$15.62 for the bottom 9 producers and -\$0.11 for all 27 producers. The average margin over all costs on a per head sold basis showed a large loss (\$-52.08 for the average producer). The average return per hour of labor after all costs was \$0.24 for all 27 producers, but \$15.98 per hour for the top 9 producers and -\$10.16 for the bottom 9 producers.

The average total cost per hundred pounds of pork produced for all producers was \$67.15, while the top third (9) had average total costs that were \$36.22 less than the bottom 9 producers (\$51.31 vs \$87.53). The main contributor to cost differences between the top third and bottom third producers was operating costs, which included feed and other operating expenses and labor costs. These costs represented the majority of the total cost difference and were about equally split between the two; operating costs (feed and other) and labor costs.

The information summarized here shows striking differences in many areas between the top 9 and bottom 9 producers. The areas with the largest differences are places with the most potential to help producers improve. Educational programming that targets these areas is being developed to help these producers make changes to improve their operations, which in turn will improve the position of this sector of the industry.

Introduction

In recent years the production of niche pork has been expanding in response to growing demand for products with specific attributes, such as pork from

animals produced without antibiotics using bedded pens with outdoor access. This growth has occurred, in many situations, from the ground up. Entrepreneurial producers have identified unmet market demands and opportunities for new products. These producers then set out to develop products to satisfy this demand and systems to get these niche products to the consumer.

However, little information is known about the costs, returns and financial performance of niche pork production systems. As demand expands for niche pork, accurate information on these topics needs to be available for producers to evaluate opportunities in niche pork production. Additionally, niche pork producers do not have sufficient information to benchmark their own operations and evaluate how they are performing and where they can look for improvements. For those thinking about entering niche pork production, information needed to develop expected, costs, and potential returns is limited.

Given the lack of information, a project was undertaken to obtain, cost, and return information for niche pork production. This information is needed to assist niche pork producers in determining their production potential and assist them in improving their production efficiencies. In turn, this will improve niche pork production and lead to increased returns and improved survivability of niche pork producers.

Materials and Methods

To obtain niche pork production cost and efficiency information, a focus was placed on working with niche pork producers in establishing production and financial record systems for their pork production operations. Project staff included several Iowa Farm Business Association consultants, a farm management specialist in Minnesota, and area extension swine specialists in Iowa and Nebraska. These staff worked with participants to establish and maintain the record system in 2006 and 2007. They also worked with producers in providing year end summaries and analysis. The specialists' direct contact provided uniformity to data recording and analysis. A report was prepared for the 2006 results.

This report provides a summary of the costs, returns, and financial performance for participating niche pork producers for the year 2007. There were 27 niche pork farrow-to-finish producers who completed records for 2007. These 27 operations were typically 'natural' producers, meaning their pigs were raised without antibiotics using bedded pens with outdoor access.

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For the analysis, information such as corn price, interest on capital, and pig inventory value was standardized between cooperators. The corn price utilized was \$3.35 per bushel. This represents the monthly average Iowa corn prices for the year 2007. This is higher than for previous years. The value for other grains and supplement was included at the values provided by the producers with the assistance of the extension specialists. The inventory values for breeding livestock was placed at \$150 per animal and remained the same for the beginning and ending inventory. Pig inventory values were held constant between the beginning and ending inventories. Pigs weighing 70 pounds or less were valued at \$50 with pigs near market weight values at \$110. Interest on operating capital and fixed capital was calculated at 5 percent. Labor value was standardized at **\$15** per hour.

Results and Discussion

Returns

Returns from producing niche pork are provided in Table 1. Averages are included for all 27 producers. These producers were also sorted based on return to capital, unpaid labor and management per hundred pounds of pork produced, and averages are also included for the top 9 producers and the bottom 9 producers as sorted this way.

The return levels were quite different between the top 9 and bottom 9 herds. On average, the return to capital, unpaid labor and management per hundred pounds of pork produced was -\$0.11 for all 27 farms, but \$10.29 for the top 9 herds and -\$15.62 for the bottom 9 herds. The total return to capital, unpaid labor and management for the pork production operation was -\$209 for the average operation, but almost \$24,000 for the top herds and below -\$18,600 for the bottom herds.

The average return to labor for all farms was \$0.24 per hour, but this number was \$15.98 per hour for the top herds and -\$10.16 per hour for the bottom herds. Thus, after all costs were paid the average per hour wage earned by all 27 producers was \$0.24. Note that prices received for market hog sales were similar between the groups: \$52.83 for the top group compared to \$50.21 for the bottom group and \$51.40 on average. Thus, prices received for hogs sold by the top and bottom groups had little impact on the differences experienced in their returns. Market hog prices did not increase much from the year 2006 to 2007 while production cost increased sharply. This led to a very tough year for producers which is clearly shown by the low to negative returns.

The margin over all costs, including labor valued at \$15 per hour, averaged \$0.15 per hundred pounds of pork produced for the top group and -\$37.38 for the bottom group, which is a difference of \$37.53 per

hundred pounds of pork, or about \$103.00 for a 275 pound hog. For all 27 producers, the margin over all costs, including labor valued at \$15 per hour, was essentially a zero return for labor.

Cost of Production

Data on the cost of producing niche pork are provided in Table 2. The method of categorization is the same as for the return information shown in Table 1.

Table 2 shows that the average total cost per hundred pounds of pork produced was \$67.15 for all 27 farms. The average total operating cost (excluding labor) for all 27 farms was \$48.20 per hundred pounds of live hog, with feed costs being \$37.98 of this total and other operating costs (excluding labor) making up the remaining \$10.22. Average fixed costs were \$4.00 per hundred pounds, and average labor costs were \$14.51 per hundred pounds. These numbers translate into total costs of about \$185.00 per market hog produced.

Table 2 also shows that the top 9 producers had average total costs of \$51.31 per hundred pounds produced, while the bottom group averaged \$87.53, which is a difference of \$36.22, or about \$99.00 per hog produced. Average feed costs for the top producers were \$14.31 per hundred pounds below the average for the bottom group (\$31.90 vs \$46.21), and other operating costs (excluding labor) for the top group were about 70 percent of the total for the bottom group (\$7.77 vs \$11.24). Fixed costs for top producers averaged \$2.71 per hundred pounds of pork produced, while this number for the bottom producers was \$4.58. Labor costs for the bottom producers was about three times that of the top producers (\$7.94 vs \$24.03).

Cost Differences

Table 3 compares cost differences between the top and bottom producers. These data show that 49 percent of total cost differences are in operating costs, which included feed and other operating expenses, but not labor. Note also that differences in feed costs represented about 28 percent of the cost difference between the top and bottom producers, while the differences in other operating costs (excluding labor) represented 10 percent of the cost differences. The difference in labor cost was quite dramatic in 2007. While it represented about 20 percent of the production cost, it represented over 40 percent of the cost difference between the top and bottom producer. Close attention to controlling feed costs and other operating costs is also important.

These cost difference results for niche pork production are different than what is seen for the more traditional confinement commodity pork producers.

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While feed costs are important for both system types, for commodity producers the fixed costs of facilities are relatively more important, which in turn means that facility use, or adequate “through-put” of hogs, is very important for these producers. The lower relative significance for fixed costs for niche pork producers is perhaps not surprising. Many niche producers in the record system had low investment in production facilities. Thus, the need to get pork out the door to keep fixed cost under control was not as pressing. The

difference in labor cost is rather striking. This is related to production efficiency as it can take a similar amount of labor to care for a sow and litter. If there are fewer pigs the labor cost per pig and hundred pounds of pork increases.

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Table 1. Returns from Producing Niche Pork - 2007
Sorted by Return to Capital, Unpaid Labor and Management, \$/Cwt.

Item	Average	Top 9 Farms	Bottom 9 Farms
Number of Producers	27	9	9
Hundred Pounds of Pork Produced	1810	2329	1196
Return to Capital, Unpaid Labor and Management per Farm	\$-209	\$23,956	\$18,687
Return to Capital, Unpaid Labor and Management per Cwt.	\$-0.11	\$10.29	\$-15.62
Return per Hour for All Hours of Labor and Management	\$0.24	\$15.98	\$-10.16
Percent Return on Capital	-27	-7	-56
Average Price per Cwt of Cull Breeding Stock Sold	\$33.46	\$33.49	\$32.54
Average Price per Cwt. of Market Hogs Sold	\$51.40	\$52.83	\$50.21
Average Price per Cwt of All Animals Sold	\$49.12	\$50.53	\$47.85
Return per \$100 of Feed Fed	\$134.99	\$161.45	\$105.31
Margin Over All Costs/Cwt. Produced, Including Inventory	\$-17.27	\$-0.15	\$-37.38
Margin Over All Costs per Head Sold, Including Inventory	\$-52.08	\$-0.20	\$-114.99

Table 2. Cost of Producing Niche Pork - 2007
Sorted by Return to Capital, Unpaid Labor and Management, \$/Cwt.

Item	Average	Top 9 Farms	Bottom 9 Farms
Number of Producers	27	9	9
Hundred Pounds of Pork Produced	1810	2329	1196
Operating Costs per Cwt. Produced			
Feed Cost	\$37.98	\$31.90	\$46.21
Other Operating Cost (except labor)	\$10.22	\$7.77	\$11.24
A. Utilities and Fuel	\$3.07	\$2.13	\$4.57
B. Injectables, Vaccines, etc.	\$1.45	\$1.41	\$1.38
E. Capital Charge on Operating Costs	\$1.20	\$.99	\$1.47
Total Operating Costs Per Cwt.	\$48.20	\$39.67	\$57.45
Fixed Costs per Cwt. Produced			
Depreciation, Taxes & Ins.	\$1.80	\$1.33	\$2.60
Capital Charge on Fixed Investment	\$1.44	\$1.38	\$1.98
Total Fixed Costs Per Cwt. Produced	\$3.24	\$2.71	\$4.58
Cost of Labor (All) Per Cwt. Produced	\$14.51	\$7.94	\$24.03
Total Cost per Cwt. Produced	\$67.15	\$51.31	\$87.53

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Table 3. Comparison of Niche Pork Production Costs Between Top and Bottom Producers.

Item	Group			Percent of Difference
	Top 9	Bottom 9	Difference	
Operating Costs (feed and other)	\$39.67	\$57.45	+\$17.78	49
Fixed Costs and operating int	\$3.70	\$6.05	+\$2.35	7
Labor Costs	\$7.94	\$24.03	-\$16.09	44
Total Costs	\$51.31	\$87.53	+\$36.22	100
Feed Costs	\$31.90	\$46.21	+\$10.31	28
Other Operating Costs	\$7.77	\$11.24	+\$3.47	10