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### 2008 Organic Farm Performance in Minnesota





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2008 ORGANIC FARM PERFORMANCE IN MINNESOTA

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#### **ABOUT THIS REPORT**

While there is lots of anecdotal information about farm performance and profitability, real world information about production, financial performance, and profitability on **organic** farms is scarce. This report provides detailed data about many aspects of the 2008 performance of actual Minnesota organic farms. It also offers summary data from 2006 and 2007 for trend comparison purposes. More detailed information about previous years is available in reports at www.mda.state.mn.us/food/organic, at www.mgt.org, or in a searchable database at www.finbin.umn.edu.

#### HOW DOES THE ORGANIC FBM PROJECT WORK?

The Minnesota Department of Agriculture (MDA) administers the project, with critical support from the partners listed inside the front cover. Participating farmers receive scholarships to defray the cost of tuition in local Farm Business Management (FBM) education programs offered throughout Minnesota by eight colleges within the Minnesota State Colleges and Universities system and one Farm Business Management Association. The farmers work one-on-one with a local FBM instructor to keep and use quality records in their farm business decisions. Their farm data is then stripped of all its identifying characteristics (so the producers remain absolutely anonymous) and incorporated into FINBIN, a database managed by the University of Minnesota Center for Farm Financial Management www.finbin.umn.edu.

#### **DOES IT MAKE A DIFFERENCE?**

In 2008, an outside contractor evaluated this project for the MDA. Among her findings: more than 80% of respondents indicated above average or excellent experience with the program. According to participants, the best things about the program were the farm-specific analysis report they received, assistance with recordkeeping/financial statements/taxes, and outside advice. Participants said the FBM program made it easier for them to provide required information to lenders and to the USDA Farm Service Agency, and that information they gained from the project (particularly cash flow, cost of production, and profitability information) informed their own annual plans and investment decisions.



FBM instructors work with all kinds of producers -- organic and conventional, crop, specialty crop, and livestock. To learn more about FBM opportunities in your area, contact the MnSCU campus in your region. A list of programs is available at www.mgt.org, or you may call Dick Joerger at 651-297-1484. Southwest Minnesota also has a Farm Business Management Association: please contact Jim Kurtz at 507-372-3904.

#### **EXPLANATION OF DATA PROCESSING AND REPORT FORMAT**

The tables in this report were created using FINPACK and RankEm Central, software programs copyrighted by the Center for Farm Financial Management (CFFM) at the University of Minnesota. The data are provided to CFFM by farm business management instructors in the Minnesota State Colleges and Universities system, and by Minnesota Farm Management Association field staff.

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### 2008 ORGANIC FARM PERFORMANCE IN MINNESOTA – WHOLE FARM RESULTS AND TRENDS –

#### By Dale Nordquist, University of Minnesota Center for Farm Financial Management

This report summarizes individual farm financial results for participants in the Minnesota Organic Farm Business Management Project for 2008 and provides comparisons to previous years. The report includes whole-farm information as well as costs and returns for individual enterprises. The year-end analysis of the individual farms was completed by Minnesota Farm Business Management instructors or by Minnesota Farm Management Associations. A total of 74 farms participated in the program for 2008. Of those, 48 were "completely organic," meaning that all of the agricultural products produced on the farm were produced under organic certification. The Whole Farm Results section summarizes only these completely organic farms.

#### FINANCIAL PERFORMANCE

Table 1 summarizes the financial performance of these 48 organic farms. On average, 2008 was a profitable year for these farms, but not as profitable as 2007. Median net farm income was very close to the 2007 level, down just slightly at \$56,412. Average net farm income was \$67,392 on sales of \$255,581. The average farm earned a rate of return on assets (ROA) of 8.9% (with assets valued at adjusted cost basis) and a rate of return on equity (ROE) of 11.5%. These rates were also down from the previous year. The fact that the ROE exceeded ROA is a positive indicator of profitability, and indicates that borrowed capital earned more than the average interest rate paid.

Liquidity levels also slipped slightly in 2008. In the previous year, participating farms ended the year with working capital (current assets minus current liabilities) equal to 29 % of a year's income. By the end of 2008, these farms had only 22 % of a year's income at their disposal. The average current ratio was 1.66:1, down from 1.98:1.

The ability of these farms to repay debt, measured by the term debt coverage ratio, was still relatively strong at 1.83:1, down from 2.51:1 for the 2007 farms. (Term debt coverage ratio measures the farm's ability to cover all term debt and capital lease payments. A ratio of 1.83:1 indicates that after all expenses, family expenditures, and taxes, \$1.83 remained for every \$1.00 of scheduled debt repayment.) Net worth improvement, while not as strong as in 2007, was still very positive at \$44,495 (with assets valued at estimated market value).

#### **COMPARISON TO CONVENTIONAL FARMS**

Table 2 shows these same financial measures for the 2,361 Minnesota non-organic (conventional) farms that participated in farm management education programs. The average conventional farm was somewhat larger, with average total assets of \$1.9 million compared to \$1.15 million for the organic farms. The average conventional farm was also larger based on total sales, with gross income of \$681,889 compared to \$255,581 for the organic group. As might be expected, given their higher sales, conventional farm earnings were generally higher than those of the organic group, with a median net farm income of \$91,275 compared to \$56,412 for the organic farms.

Comparing businesses of different size based on net income can be deceiving. Rate of return on assets (ROA) does a better job of adjusting for different levels of resources employed in the business. The average organic farm earned a rate of return on assets (ROA) of 8.9% compared to an average ROA of 10.5% for conventional farms (with assets valued at adjusted cost basis). Both of these rates are very strong by historical standards.

While it might be expected that organic farms would have higher profit margins than conventional commodity producers, this was only marginally true in 2009. Organic farms had an operating profit margin of 22.5% compared to 21.8% for conventional farms. As might be expected based on their volume of commodity sales, conventional farms generated more income per dollar of investment with an average asset turnover rate of 48.1% compared to 39.7% for organic farms. We stress these measures because operating profit margin multiplied times asset turnover rate equals rate of return on assets. Organic farms, if they generate consistently lower turnover rates, have to improve their profit margin to compete financially with conventional farm returns.

The conventional farms used slightly more debt capital, with average debt-to-asset ratios of 47% compared to 40% for the organic farms. One troubling factor is that the liquidity position of organic farms deteriorated in 2008 compared to conventional farms. At the end of 2008, these organic farms had 22% of a year's income in working capital (current assets – current liabilities) compared to 31% for conventional farms.

#### **PROFITABILITY COMPARISONS**

There was a wide range of financial results within this group of organic farms, similar to the variation of returns seen historically for conventional farms. Table 3 sorts the 2008 organic farms into thirds based on net farm income. The highest profit group had median net earnings of \$122,639 compared to a loss of \$-1,808 for the low profit group. The high third was slightly larger in terms of sales and total assets and generated rates of return comparable to the most profitable conventional farms. The more interesting comparison might be the middle third compared to the low profit group. The low profit group was actually made up of larger farms, on average, based on total assets and yet generated less gross income. They owned more acres and rented fewer. These results are consistent with 2007 comparisons. It is not possible to tell from this summary, however, how many of the farms in the lower third were also in that category last year.

Debt level did not appear to be a contributing factor to the differences in profitability. The high profit farms actually had slightly higher debt-to-asset levels. Liquidity and repayment capacity are big concerns for the low profit group. On average, at the end of the year, they had only 3% of a year's gross income in working capital. A general guideline is that farms should have 25% of a year's income in working capital: 10% is considered critically low. The low profit group generated a term debt coverage ratio of 0.22:1, meaning that after owner withdrawals, they fell far short of earning enough to cover payments. The high profit farms, on the other hand, generated 2.80 times their scheduled debt payments. The high profit group's net worth increased, on average, by almost \$100,000, while the low profit group saw their net worth decrease slightly.

#### TYPE OF FARM

Of the 48 completely organic farms, 14 were crop farms and 26 were dairy farms<sup>1</sup> (Table 4). (The other eight farms were either organic hog or beef farms, for which there were not enough farms to summarize, or were diversified farms that did not fall clearly into a specific farm type.) Consistent with 2007 results, the organic crop farms were very profitable as a group, with median net farm income of \$98,337 and an ROA of more than 13%. Crop farms had high liquidity (2.50:1 current ratio) and high debt coverage (2.79:1 term debt coverage). The average organic crop farm's net worth increased by more than \$74,000 during the year.

The 26 organic dairy farms were less profitable compared to the crop farms and were also slightly less profitable than the 2007 organic dairies. Their median net farm income in 2008 was \$46,376 compared to \$53,783 in 2007. Their 2008 rate of return on assets was 6.5%. It is likely that high feed costs contributed to this decrease in profitability. (Conventional dairies experienced the same situation. It is interesting to note, however, that organic dairy profits did not decrease as much as those of conventional dairies). The data reported here indicate that the average organic dairy had slightly better than a break-even year in 2008. Consistent with their conventional dairy counterparts, their liquidity position was much lower than that of the crop farms, indicating much less ability to sustain a long period of reduced earnings. Still, the average organic dairy farm increased its net worth by more than \$36,000 in 2008.

#### SIZE OF FARM

This report sorts organic farms into size groups based on gross farm income (Table 5). The financial performance of these organic farms generally improved with farm size. This phenomenon was true based on net farm income and return on assets. The smallest farms had negative returns on assets, while the largest farms generated a return on assets of almost 13%. In general, farms that generated more than \$100,000 of gross income produced adequate returns. Many of the farms that grossed less than \$100,000 were probably part-time farms. These farms had lower profits but generally earned more than \$20,000 of non-farm income, somewhat more than the larger farms. Debt repayment capacity, as measured by term debt coverage ratio, also increased consistently with average business size, as did net worth growth. There was no consistent pattern in liquidity across these farm size groups.

<sup>&</sup>lt;sup>1</sup>Farms were categorized on the basis of having 70 percent or more of gross income from that category of income.

#### SUMMARY

One of the goals of this project is to document the financial performance of participating organic producers so that they and their peers have more accurate benchmarks on which to evaluate organic options. Another goal is to un-mask the financial performance of a group of organic producers to provide agricultural lenders better information on which to base credit decisions and to give policy makers, researchers, and others real-world insight into organic farm performance.

As with groups of conventional farms, there is tremendous variability in the production and financial performance of this group of organic producers. Some producers were very profitable, had high rates of return, and ended 2008 in very strong financial positions. Others struggled to generate returns adequate to meet financial and family needs. Some differences may be explained by the weather and other factors beyond the control of the producer. Other differences might be explained by the relative profitability of specific commodities. Again, this is not unlike conventional farm production.

The tables that follow summarize the whole farm financial performance of this group of 48 organic producers. The first set of tables (Tables 1-5) includes the sorts on which the previous discussion is based. The next set provides information about crop enterprise (Tables 6-22) and dairy enterprise (Tables 23-27) performance. Finally, Table 28 shows the Farm Financial Standards Council's recommended ratios and measures. Use it together with the financial "scorecard" on the back cover to benchmark your own individual results.

If you would like to further dissect the results of these and the other farms that participated in Minnesota farm management educational program, you can run your own data reports using FINBIN at www.finbin.umn.edu. The privacy and anonymity of all participants' data is strictly protected.

### VALUING A LIFESTYLE: USING NUMBERS TO INFORM BIG PICTURE THINKING

By Jack LaValla, FBM Instructor, Riverland College

I am a farm business management instructor in Southeast Minnesota, where I work with organic and conventional producers. I recognize that there are lots of numbers in this report! I would like to offer a few suggestions that might help you use this report in ways that are most beneficial to you.

I would like to start by asking you the following questions: What is it that you value about your role in agriculture? How do you choose to support the food and fiber system? Our values can either steer us toward or away from practices and sources of information. I think it's important to address the question of values and priorities up front, in order to help direct you to the information that will be most meaningful and relevant to you.

I'm going to approach this document by focusing on three critical areas for organic farm businesses:

- 1. Goals
- 2. Collaboration
- 3. How to Use Benchmarks and Financial Indicators

#### Goals

Goals are a reflection of your values system. In fact, they are a road map of your values. My primary objective as a teacher is to help farm families reach their goals by using:

- Sound Accounting Practices
- Financial Analysis
- Business Planning
- Informed Decision Making
- Reflective Evaluation

You should revisit your goals (both business and personal) on an annual basis. Informed decision making using the financial and production data available to you should support your goals. It is up to you to use some key indicators and analyze your business performance in order to determine whether you are indeed on track with your plan, or if you need to make some modifications. Lenders, business advisors, farm business managers, accountants, and others are all available to help, but at the end of the day, it's **your** farm.

#### **COLLABORATION**

Success in a business is not merely the result of individual effort, but rather the collaborative effort by several individuals and organizations working together. Developing working relationships built upon trust and common vision is generally a key to positive results.

As a farm business management instructor, I encourage and help facilitate collaborative relationships with farm families and those who support their business goals. A great strength of farmers over the years has been their resilient and independent spirit in the face of many obstacles. However, the "go it alone" practice can sometimes hamper progress and create a defensive attitude. For this reason I strongly recommend that producers use the information found in this report (along with their own individual business analysis, if they have one) to inform and educate others they work with. These may be lenders, agronomists, animal health providers, commodity marketing personnel, and/or certifying agencies.

It is important to state here that maximum profitability may not be the bottom line indicator of the success of your business! But you cannot assume that everyone who looks at your business performance from the outside can determine what you value if you do not share your goals and the indicators that highlight the goals you've established.

Information like the data contained in this report is especially valuable for collaborating with lenders. Over the years it has been difficult to find credible numbers for organic production. Instead, modified benchmarks from conventional farms were used. This practice didn't serve the needs of either the farmer or the lender. I have seen positive results as farmers and lenders work together to determine enterprise feasibility and cash flow requirements for the organic farm businesses.

Collaborating allows for determining areas of focus such as:

- Financial Indicators Where am I now?
- Benchmarks *How do I compare with others?*
- Trends *How am I performing?*
- Projections Where am I headed?

#### **USING BENCHMARKS AND FINANCIAL INDICATORS**

This report includes detailed information about the performance of organic farms and provides key measures you can use to compare your business performance against. You can reflect on and use this information when reviewing your goals. It will promote productive collaboration with family, business partners and other stakeholders as you make management decisions for your operation.

I recommend that my FBM students focus on three areas:

- Liquidity and Solvency Find these measures on your Balance Sheet
- Profitability Find these measures on your Income Statement
- Repayment Capacity Find these measures on your Cash Flow Statement

LIQUIDITY	KEY INDICATOR:			
This reflects the ability to meet financial obligations as they come due.	<b>Working Capital</b> – How much cash is available to operate in the short-term from within the business? Working capital is a very good predictor of the ability to cash flow during the year.			
SOLVENCY	KEY INDICATORS:			
If you were to sell your business, would you be able to pay off all business debts? Solvency is important in evaluating financial risk.	<b>Farm Debt to Asset Ratio</b> – This is the bank's share of the business. It compares total farm debt to total farm assets. A higher ratio indicates greater financial risk and lower borrowing capacity.			
	<b>Farm Equity to Asset Ratio</b> – This is your share of the business. It compares farm equity to total farm assets. When added to the debt to asset ratio you will get 100%.			
	<b>Farm Debt to Equity Ratio</b> – This number compares the bank's ownership to your ownership. It indicates how much the owners have leveraged their equity in the business.			
PROFITABILITY	KEY INDICATORS:			
This is the margin of difference between the value of goods produced and sold and the cost of the resources used in their production.	<b>Net Farm Income</b> – This represents the return of cash to your labor, your management, and the equity that you have invested in your business. This is the reward for investing your family labor, management skills and money in the business.			
	<b>Rate of Return on Farm Equity</b> – Think of this as the average interest rate you are earning through investment in the farm. It can be compared to returns available if your equity were invested somewhere else.			
	<b>Operating Profit Margin</b> – This measure demonstrates the operating efficiency of your business by comparing the value of your farm production to your operating expenses.			
REPAYMENT CAPACITY	KEY INDICATORS:			
This shows the borrower's ability to repay term debts on time. It includes non-farm income and expenses, so it is not a measure of business performance alone—it indicates the ability to	<b>Term Debt Coverage Ratio</b> – This indicates whether your business produced enough cash to cover all (both farm and non-farm) intermediate and long loan payments.			
make a living on the farm.	<b>Capital Replacement Margin</b> – This is the money remaining after operating expenses, taxes, family living costs and scheduled loan payments have been made. It's really the money that's left (after paying all the bills) that can be used for purchasing or financing new buildings, equipment, land or livestock.			

In conclusion, I am confident that the information you will find in this book can provide you with valuable information to use in managing your business in order to reach the goals you have established for your family and your farming operation. Try using the indicators I have highlighted to measure productivity and efficiency. Depending on your individual situation or interests, you may choose to use others.

If you are a participant in the Farm Business Management program, remember that your year-end analysis provides only a snapshot view of your operation. There is real value in tracking your progress and identifying trends over time by analyzing your business each year for several years. This information will provide valuable fuel for discussion and interaction with your business collaborators.

Your financial and production data belong to you. Strategize to use it wisely in reviewing and setting goals for your family and farm business that reflect your values and sustain the role you play in the food and fiber system.

### HOW TO USE THIS BOOK ONE INSTRUCTOR'S ADVICE

By Mark Berg, FBM Instructor, Northland College

Even if you are someone who is **not** a student of Farm Business Management but want to find out about the production capabilities and economics of organic farming, this book can be very useful. It contains information that answers often-asked questions, including: *Can I make a living farming organically? What does it cost to be an organic farmer? How big do I have to be?* 

#### CAN I MAKE A LIVING FARMING ORGANICALLY?

One of the easiest ways to find out whether farmers can make a living farming organically is to examine the *Financial Summaries* (Tables 1 and 3-5).

For the amount of profit, look at: 1) Average net farm income; and 2) Median net farm income.

For rate of return on investments made by these farmers, see: 1) *Rate of return on assets;* 2) *Rate of return on equity;* and 3) *Operating profit margin.* 

To see whether this is enough profit, look at *Total family living expense* and see whether the profit is enough to cover *Total living, invest, cap. purch* (total non-farm living, investment, and capital purchases).

#### WHAT DOES IT COST TO BE AN ORGANIC FARMER?

The amount of investment and debt needed to become an organic farmer is wide and varies from farm to farm. It depends on factors like farm size, and whether a person is already farming or just beginning to build a new organic farm (incurring costs for farm and equipment purchases, for example.)

The amount of investment and debt carried by the organic farms included in this report is shown on the *Financial Summaries* (Tables1 and 3-5) in *Total Farm Assets* and *Total Farm Liabilities*, as well as Total Assets and Total Liabilities (these include non-farm assets and loans).

The cost of producing an organic crop or livestock product is shown in detail on the *Crop Enterprise and Livestock Enterprise Analysis* tables (Tables 7 to 27). Here you will find lots of detail pertaining to the costs, yields, size, and profit.

#### HOW BIG DO I HAVE TO BE?

Information about farm size is printed at the bottom of the *Financial Summaries* (Tables 1 and 3-5) and at the top of the page of the *Crop Production & Marketing Summary* (Table 6). Yields and prices received for the organic crops are also listed in this table.

You should also look at the *Crop Enterprise and Livestock Enterprise Analysis* tables (Tables 7 to 22 and 23 to 27). These include acreage and numbers of cows.

From this point onward, you can dig more deeply into this book to find more detail. If you have further questions feel free to call any of the Farm Business Management instructors in your area.

### GETTING THE MOST OUT OF YOUR OWN FARM ANALYSIS – A STEP BY STEP GUIDE FOR PARTICIPATING FARMERS

By Mark Berg, FBM Instructor, Northland College

Your own farm business analysis offers you a tremendous wealth of information, **if you use it**. It has a lot of numbers, so consider it as an encyclopedia of data, a reference guide about your own, unique farm. For effective use, you will consider different parts of it, at different times. But right now, let's go through your analysis as though you just received it, and want to review the year. Let's do some jumping around the analysis:

### For an immediate and quick review, the steps I recommend are:

#### Step #1:

#### Assess the accuracy and completeness of the analysis

- Step #1a: You want your information to be reliable. To see if the data is complete and accurate, take a look at the Cash Accuracy Check. This accounts for all the cash available and coming into the operation, and accounts for where it was spent or saved. The answer should read "<u>0</u>".
- **Step #1b:** Then a quick look at the Liabilities Check. If they are correct, the balance will also read "<u>0</u>".
- Step #1c: Before leaving this page, take a quick look at the Crop and Feed Check, to see if your production, sales, purchases, and usage look reasonable. All the ending amounts should read "<u>0</u>", or think about why they may not be.
- Step #1d: For even more accuracy, compare the Contributions to Overhead Expenses table's *Total return over overhead expenses* to the Financial Statements & Measures table's *Net farm income from operations*. They should be close. This is comparing the financials profit to the enterprises profit.

#### Step #2: Check the profit

This is called *Net Farm Income*. Is it enough to cover family living, capital improvements on your farm, and principal payments on loans? (Hint: regular loans are called *Term debt* in your analysis.)

#### Step #3:

#### Reviewing planned vs. actual – making it happen.

Now go to the Planned vs. Actual page. There you can compare *planned production, income and expenses, money borrowed and paid back, and capital purchases and sales* from your business plan for the year against the actual results.

#### Step #4: Comparative trends

Scan across the page and look at your: Income statement: Were there changes in Gross Income, Operating Expenses, Profit?

*Balance Sheet information:* How about changes in *Assets & debt, Net worth (equity)*, and *Repayment Capacity?* (Study your balance sheet trends in more detail, later, on the pages of your farm business analysis).

*Production:* Review changes in farm size in acres and/or cattle numbers, acres planted; and your production.

#### Step #5: The crop enterprise analysis

For cash crops (those which you sell), find *Net return per acre* – this is your raw profit per acre. If you want to consider all things, including a charge for your labor, and see what remains of your profit/acre you will find this under *Net return over labor and management*.

For crops you raise for feed and forage, you will want to look under the Cost of Production section at the *With labor* & *management* amount. This is your cost per ton, bushel, or hundredweight. You need to know if you can raise a crop more cheaply than you can buy it.

For cash crops, again look under Cost of Production section at the *With labor & management* amount. You want the cost/ unit to be less than the cash sale price of your crops.

#### Step #6: Livestock enterprise analysis

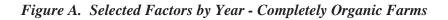
As we did in the crop table, go to the bottom of the page. Look at the valuable, unique-to-your-farm information under *Cost of Production* and *Other Information*.

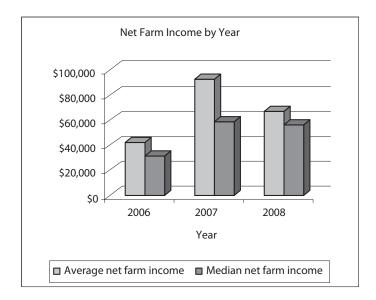
#### Step #7: Comparing your data to others

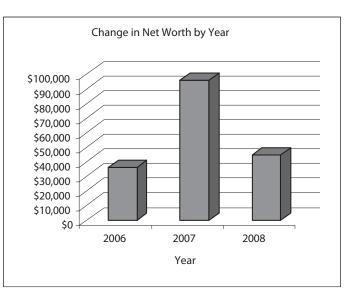
Now it's time to be more detailed. Starting with the Enterprise Tables, compare your information, in detail, with the averages in this 2008 Organic Farm Performance in *Minnesota* book. This area is the heart of your business: where your operating money went and where your gross income came from.

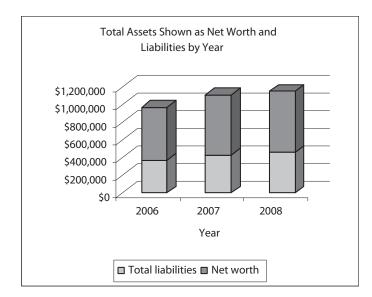
Ask your instructor or advisor to help you look at the *Net* farm income, Change in net worth, Repayment capacity, Farm size, Yields, Cost of Production, and trends of the other farmers and compare them, again in detail, to your business.

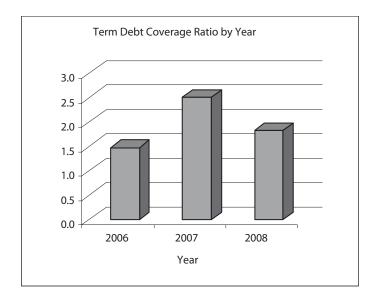
Use the scorecard on the back of this book!! Comparing your data with the averages helps to give you a perspective as to what others are spending or earning, and how your costs, yields, prices (high or low) relate to the group you are in.

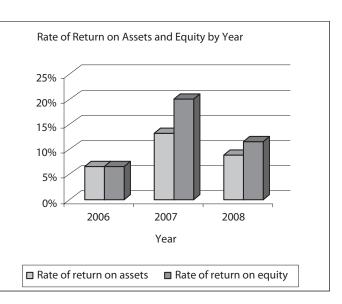


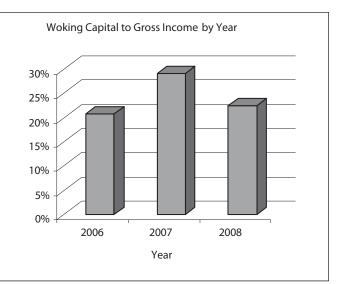










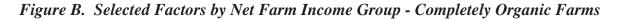


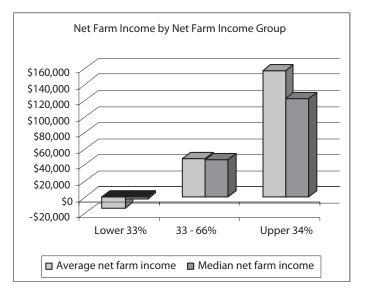
#### Table 1. Financial Summary Completely Organic Farms (Sorted By Year)

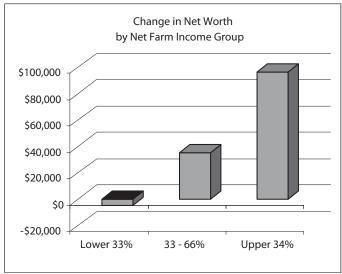
Income Statement         Image: Statement           Gross cash farm income         255,581         243,560         193,28           Total cash farm expense         201,791         192,489         158,52           Inventory change         31,859         58,684         20,97           Depreciation         -18,402         -16,748         -13,76           Net farm income from operations         67,247         33,007         41,97           Gain or loss on capital sales         145         -         -           Average net farm income         67,392         93,007         41,97           Median net farm income         66,412         58,886         31,48           Profitability (cost)         Rate of return on assets         8.9 %         13,3 %         6.5 9           Rate of return on equity         11.5 %         20,1 %         6.5 9           Operating profit margin         22.5 %         31.8 %         18.0 9           Asset turnover rate         39,7 %         41.9 %         36.1 9           Current assets         163,734         171,651         119,75           Current assets         163,734         171,651         119,75           Current assets         165,112         84,971         44,10		2008	2007	2006
Gross cash farm income         255,581         243,660         193,28           Total cash farm expense         201,791         192,489         158,52           Net cash farm income         53,791         51,071         34,76           Inventory change         31,859         58,684         20,97           Depreciation         -18,402         -16,748         -13,76           Net farm income from operations         67,247         93,007         41,97           Gain or loss on capital sales         145         -         -           Average net farm income         67,392         93,007         41,97           Median net farm income         56,412         58,886         31,48           Profitability (cost)         Rate of return on assets         8.9 %         13.3 %         6.5 9           Rate of return on equity         11.5 %         20.1 %         6.5 9           Operating profit margin         22.5 %         31.8 %         18.0 9           Asset turnover rate         39.7 %         41.9 %         36.1 9           Current sasets         166,734         171,651         119,75           Current assets         98,622         86,680         75,64           Current sasets         1.62	Number of farms	48	45	46
Gross cash farm income         255,581         243,660         193,28           Total cash farm expense         201,791         192,489         158,52           Net cash farm income         53,791         51,071         34,76           Inventory change         31,859         58,684         20,97           Depreciation         -18,402         -16,748         -13,76           Net farm income from operations         67,247         93,007         41,97           Gain or loss on capital sales         145         -         -           Average net farm income         67,392         93,007         41,97           Median net farm income         56,412         58,886         31,48           Profitability (cost)         Rate of return on assets         8.9 %         13.3 %         6.5 9           Rate of return on equity         11.5 %         20.1 %         6.5 9           Operating profit margin         22.5 %         31.8 %         18.0 9           Asset turnover rate         39.7 %         41.9 %         36.1 9           Current sasets         166,734         171,651         119,75           Current assets         98,622         86,680         75,64           Current sasets         1.62	Income Statement			
Total cash farm expense       201,791       192,489       158,52         Net cash farm income       53,791       51,071       34,76         Inventory change       31,859       58,684       20,97         Depreciation       -18,402       -16,748       -13,76         Net farm income from operations       67,247       93,007       41,97         Gain or loss on capital sales       145       -       -         Average net farm income       66,412       58,886       31,48         Profitability (cost)       Rate of return on assets       8.9 %       13.3 %       6.5 9         Rate of return on equity       11.5 %       20.1 %       6.5 9         Operating profit margin       22.5 %       31.8 %       180.0 %         Asset turnover rate       39.7 %       41.9 %       36.1 9         Liquidity & Repayment (end of year)       Current labilities       98,622       86,680       75,64         Current ratio       1.66       1.98       1.5       1.5         Working capital to gross inc       22.4 %       29.0 %       20.6 9         Current ratio       1.62       2.51       1.4         Replacement coverage ratio       1.83       2.51       1.4 <tr< td=""><td></td><td>255.581</td><td>243.560</td><td>193,284</td></tr<>		255.581	243.560	193,284
Net cash farm income         53,791         51,071         34,76           Inventory change         31,859         58,684         20,97           Depreciation         -18,402         -16,748         -13,76           Net farm income from operations         67,247         93,007         41,97           Gain or loss on capital sales         145         -         -           Average net farm income         67,392         93,007         41,97           Median net farm income         56,412         58,886         31,48           Profitability (cost)         Rate of return on equity         11.5 %         20.1 %         6.5 9           Rate of return on equity         11.5 %         20.1 %         6.5 9           Operating profit margin         22.5 %         31.8 %         18.0 9           Asset turnover rate         39.7 %         41.9 %         36.1 9           Liquidity & Repayment (end of year)				
Inventory change 31,859 58,684 20,97 Depreciation -18,402 -16,748 -13,76 Next farm income from operations 67,247 93,007 41,97 Gain or loss on capital sales 145 - Average net farm income 67,392 93,007 41,97 Median net farm income 56,412 58,886 31,48 Profitability (cost) Rate of return on assets 8.9 % 13.3 % 6.5 9 Rate of return on equity 11.5 % 20.1 % 6.5 9 Operating profit margin 22.5 % 31.8 % 18.0 9 Asset turnover rate 39.7 % 41.9 % 36.1 9 Liquidity & Repayment (end of year) Current assets 163,734 171,651 119,75 Current assets 163,734 171,651 119,75 Current assets 165,112 84,971 44,10 Working capital 0 65,112 84,971 44,10 Working capital to gross inc 22.4 % 29.0 % 22.0.6 ° Term debt coverage ratio 1.62 2.51 1.4 Replacement coverage ratio 1.62 3.7,77 Total farm liabilities 415,764 381,270 327,77 Total assets 997,087 951,886 824,09 Total farm isabilities 445,692 428,695 372,72 Net worth 644,373 664,611 598,18 Ret worth change 44,495 95,765 35,88 Farm debt to asset ratio 40 % 39 % 38 9 Nonfarm Information 42 % 40 % 40 9 Total larmis 10 work 39 % 38 9 Nonfarm Information 40 % 39 % 38 9	•			34,763
Depreciation         -18,402         -16,748         -13,76           Net farm income from operations         67,247         93,007         41,97           Sain or loss on capital sales         145         -         -           Average net farm income         67,392         93,007         41,97           Median net farm income         56,412         58,866         31,48           Profitability (cost)         Rate of return on assets         8.9 %         13.3 %         6.5 9           Rate of return on equity         11.5 %         20.1 %         6.6 9           Operating profit margin         22.5 %         31.8 %         18.0 9           Asset turnover rate         39.7 %         41.9 %         36.1 9           Current assets         163,734         171,651         119,75           Current ratio         1.66         1.98         1.5           Working capital         65,112         84,971         44,10           Working capital to gross inc         22.4 %         29.0 %         20.6 9           Term debt coverage ratio         1.83         2.51         1.4           Replacement coverage ratio         1.62         2.51         1.4           Solvency (end of year at market)         4				
Net farm income from operations       67,247       93,007       41,97         Gain or loss on capital sales       145       -         Yerage net farm income       67,392       93,007       41,97         Wedian net farm income       56,412       58,886       31,48         Profitability (cost)       8ate of return on assets       8.9 %       13.3 %       6.5 9         Sate of return on equity       11.5 %       20.1 %       6.5 9         Operating profit margin       22.5 %       31.8 %       18.0 9         Asset turnover rate       39.7 %       41.9 %       36.1 9         Liquidity & Repayment (end of year)       20.1 %       66.680       75,64         Current labilities       98,622       86,680       75,64         Current ratio       1.66       1.98       1.5         Morking capital to gross inc       22.4 %       29.0 %       20.6 9         Current ratio       1.62       2.51       1.4         Replacement coverage ratio       1.83       2.51       1.4         Replacement coverage ratio       1.62       2.51       1.4         Solvency (end of year at market)       300,73       684,611       598,18         Number of farms       415,764				
Sain or loss on capital sales       145       -         Average net farm income       67,392       93,007       41,97         Wedian net farm income       56,412       58,886       31,48         Profitability (cost)       Rate of return on agests       8.9 %       13.3 %       6.5 9         Rate of return on equity       11.5 %       20.1 %       6.5 9         Deprating profit margin       22.5 %       31.8 %       18.0 9         Asset turnover rate       39.7 %       41.9 %       36.1 9         Current assets       163,734       171,651       119,75         Current assets       163,734       171,651       119,75         Current assets       166,112       84,971       44,10         Vorking capital       65,112       84,971       44,10         Vorking capital to gross inc       22.4 %       29.0 %       20.6 9         Ferm debt coverage ratio       1.62       2.51       1.4         Solvency (end of year at market)       145,764       381,270       327,77         Total farm isolbilities       415,764       381,270       327,77         Total assets       1,150,065       1,113,306       970,91         Total farm assets       947,087				
Average net farm income         67,392         93,007         41,97           Wedian net farm income         56,412         58,886         31,48           Profitability (cost)         Rate of return on assets         8.9 %         13.3 %         6.5 9           Rate of return on equity         11.5 %         20.1 %         6.5 9           Operating profit margin         22.5 %         31.8 %         18.0 9           Asset turnover rate         39.7 %         41.9 %         36.1 9           Current assets         163,734         171,651         119,75           Current taiso         1.66         1.98         1.5           Current taiso         1.66         1.98         1.5           Vorking capital         65,112         84,971         44,10           Working capital to gross inc         22.4 %         29.0 %         20.6 9           Ferm debt coverage ratio         1.83         2.51         1.4           Replacement coverage ratio         1.82         2.51         1.4           Solvency (end of year at market)         Number of farms         48         45         4.09           Yumber of farm sests         997,087         951,896         824.09         377,70           Total farm li			-	-1,070
Median net farm income         56,412         58,866         31,48           Profitability (cost)         Rate of return on assets         8.9 %         13.3 %         6.5 9           Rate of return on equity         11.5 %         20.1 %         6.5 9           Operating profit margin         22.5 %         31.8 %         18.0 9           Asset turnover rate         39.7 %         41.9 %         36.1 9           Liquidity & Repayment (end of year)         Current assets         163,734         171,651         119,75           Current assets         163,734         171,651         119,75         20.6 %         20.6 %           Current ratio         1.66         1.98         1.5         Working capital         65,112         84,971         44,10           Working capital to gross inc         22.4 %         29.0 %         20.6 %         20.6 %           Term debt coverage ratio         1.83         2.51         1.4         48         45         4           Replacement coverage ratio         1.62         2.51         1.4         40.6 %         397,87         951,896         824,09           Total farm assets         997,087         951,896         824,09         372,72         30.4 \$611         598,18			93 007	<i>4</i> 1 973
Profitability (cost)         Rate of return on assets $8.9\%$ $13.3\%$ $6.59$ Rate of return on equity $11.5\%$ $20.1\%$ $6.59$ Deparating profit margin $22.5\%$ $31.8\%$ $18.09$ Asset turnover rate $39.7\%$ $41.9\%$ $36.19$ Liquidity & Repayment (end of year)         Current labilities $98,622$ $86,680$ $75,64$ Current itabilities $92,0\%$ $20.6\%$ Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan= 2.51 $1.4$ Vorking capital to gross inc $22.4\%$ $29.0\%$ $20.6\%$ $7$ Colspan= 2 $2.51$ $1.4$ $4.5$ $4$ $4.5$ $4$ Solvency (end of year at market)         Vandebt coverage ratio $1.62$				
Rate of return on assets       8.9 %       13.3 %       6.5 9         Rate of return on equity       11.5 %       20.1 %       6.5 9         Asset furnover rate       39.7 %       41.9 %       36.1 9         Liquidity & Repayment (end of year)       22.5 %       31.8 %       180.0 9         Current assets       163,734       171,651       119,75         Current liabilities       98,622       86,680       75,64         Current ratio       1.66       1.98       1.5         Working capital       65,112       84,971       44,10         Working capital to gross inc       22.4 %       29.0 %       20.6 9         Term debt coverage ratio       1.62       2.51       1.4         Replacement coverage ratio       1.62       2.51       1.4         Solvency (end of year at market)       Vumber of farms       48       45       4         Vumber of farms       48       45       4       4       597,087       951,896       824,09         Total farm liabilities       415,764       381,270       327,77       7       7       7         Total assets       997,087       951,896       352,98       372,72       84,611       598,88       898,18 <td></td> <td>50,412</td> <td>50,000</td> <td>51,409</td>		50,412	50,000	51,409
Rate of return on equity         11.5 %         20.1 %         65.5 %           Operating profit margin         22.5 %         31.8 %         18.0 %           Asset turnover rate         39.7 %         41.9 %         36.1 %           Liquidity & Repayment (end of year)          1000000000000000000000000000000000000				
Operating profit margin         22.5 %         31.8 %         18.0 9           Asset turnover rate         39.7 %         41.9 %         36.1 9           Liquidity & Repayment (end of year)          119.75           Current assets         163,734         171,651         119.75           Current ratio         1.66         1.98         1.5           Working capital         65,112         84,971         44,10           Working capital to gross inc         22.4 %         29.0 %         20.6 9           Term debt coverage ratio         1.83         2.51         1.4           Replacement coverage ratio         1.62         2.51         1.4           Solvency (end of year at market)         1         10.65         1,113,306         970,97           Number of farms         48         45         4         4         10           Total farm liabilities         415,764         381,270         327,77         10         327,72           Total farm liabilities         455,692         428,695         372,72         14         58,18           Net worth change         44,495         95,765         35,98         58,618         58,618         58,618         58,62         36,83         74				6.5 %
Asset turnover rate       39.7 %       41.9 %       36.1 %         Liquidity & Repayment (end of year)       Current assets       163,734       171,651       119,75         Current assets       163,734       171,651       119,75       119,75         Current ratio       1.66       1.98       1.5         Vorking capital       65,112       84,971       44,10         Norking capital to gross inc       22.4 %       29.0 %       20.6 %         Ferm debt coverage ratio       1.83       2.51       1.4         Replacement coverage ratio       1.62       2.51       1.4         Solvency (end of year at market)       Vumber of farms       48       45       4         Number of farms       48       45       4       490       361,270       327,77         Total farm liabilities       415,764       381,270       327,77       72       72,12       72,12         Yet worth       694,373       684,611       598,18       53,686       32,99       36,98       36,98       36,98       36,98       36,98       36,99       36,99       36,99       36,99       36,99       36,99       36,99       36,99       36,99       36,99       36,99       36,99       36,				6.5 %
Liquidity & Repayment (end of year)           Current assets         163,734         171,651         119,75           Current liabilities         98,622         86,680         75,64           Current ratio         1.66         1.98         1.5           Working capital         65,112         84,971         44,10           Working capital to gross inc         22.4 %         29.0 %         20.6 %           Term debt coverage ratio         1.83         2.51         1.4           Replacement coverage ratio         1.62         2.51         1.4           Solvency (end of year at market)         Number of farms         48         45         4           Number of farms         48         45         4         327,77           Total farm liabilities         415,764         381,270         327,77           Total assets         997,087         951,896         824,09           Total farm liabilities         445,692         428,695         372,72           Net worth         694,373         684,611         598,18           Parm debt to asset ratio         42 %         40 %         40 %           Total family living expense         9         7         7           Total debt to ass	Operating profit margin	22.5 %		18.0 %
Current assets         163,734         171,651         119,75           Current liabilities         98,622         86,680         75,64           Current ratio         1.66         1.98         1.5           Working capital         65,112         84,971         44,10           Working capital to gross inc         22.4 %         29.0 %         20.6 %           Ferm debt coverage ratio         1.83         2.51         1.4           Replacement coverage ratio         1.62         2.51         1.4           Solvency (end of year at market)         1.62         2.51         1.4           Solvency (end of year at market)         48         45         4           Number of farms         48         45         4           Total farm assets         997,087         951,896         824,09           Total assets         1,150,065         1,113,306         970,91           Total assets         1,150,065         1,113,306         970,91           Total liabilities         455,692         428,695         372,72           Net worth change         44,495         95,765         35,98           Farm debt to asset ratio         42 %         40 %         40 %           Yet nonf	Asset turnover rate	39.7 %	41.9 %	36.1 %
Current assets         163,734         171,651         119,75           Current liabilities         98,622         86,680         75,64           Current ratio         1.66         1.98         1.5           Working capital         65,112         84,971         44,10           Working capital to gross inc         22.4 %         29.0 %         20.6 %           Term debt coverage ratio         1.83         2.51         1.4           Replacement coverage ratio         1.62         2.51         1.4           Solvency (end of year at market)         Number of farms         48         45         4           Number of farms         48         45         4         4         104         381,270         327,77           Total assets         1,150,065         1,113,306         970,91         704         384,611         598,18           Net worth change         44,495         95,765         35,98         364,611         598,18         598           Farm debt to asset ratio         42 %         40 %         40 %         40 %         40 %         38 %         50           Notal debt to asset ratio         42 %         40 %         40 %         40 %         40 %         40 %         40	Liquidity & Repayment (end of year)			
Current liabilities         98,622         86,680         75,64           Current ratio         1.66         1.98         1.5           Working capital to gross inc         22.4 %         29.0 %         20.6 %           Term debt coverage ratio         1.83         2.51         1.4           Replacement coverage ratio         1.62         2.51         1.4           Solvency (end of year at market)          48         45         4           Number of farms         48         45         4         4           Total farm assets         997,087         951,896         824,09           Total farm liabilities         415,764         381,270         327,77           Total assets         1,150,065         1,113,306         970,91           Total liabilities         455,692         428,695         372,72           Net worth         694,373         684,611         598,18           Net worth change         44,495         95,765         35,98           Farm debt to asset ratio         40 %         39 %         38 %           Nofarm Information         1         48,620         43,632         38,83           Total drebt vasset ratio         49,895         53,647		163.734	171.651	119,750
Current ratio         1.66         1.98         1.5           Working capital         65,112         84,971         44,10           Working capital to gross inc         22.4 %         29.0 %         20.6 %           Term debt coverage ratio         1.83         2.51         1.4           Replacement coverage ratio         1.62         2.51         1.4           Solvency (end of year at market)          48         45         4           Number of farms         48         45         4         4           Total farm assets         997,087         951,896         824,09         327,77           Total assets         1,150,065         1,113,306         970,91           Total liabilities         455,692         428,695         372,72           Net worth         694,373         684,611         598,18           Net worth change         44,495         95,765         35,98           Farm debt to asset ratio         40 %         39 %         38 %           Nonfarm Information         7         7         18,34           Farms reporting living expense         48,620         43,632         38,83           Total family living expenses         9         7         7				75,646
Working capital         65,112         84,971         44,10           Working capital to gross inc         22.4 %         29.0 %         20.6 %           Term debt coverage ratio         1.83         2.51         1.4           Replacement coverage ratio         1.62         2.51         1.4           Solvency (end of year at market)         1.62         2.51         1.4           Solvency (end of year at market)         48         45         4           Total farm assets         997,087         951,896         824,09           Total farm assets         997,087         951,896         824,09           Total assets         1,150,065         1,113,306         970,91           Total liabilities         455,692         428,695         372,72           Net worth         694,373         684,611         598,18           Net worth change         44,495         95,765         35,98           Farm debt to asset ratio         40 %         39 %         38 %           Notal debt to asset ratio         40 %         39 %         38 %           Notarum Information         7         7         7           Net nonfarm lincome         21,307         21,021         18,34           <		,		1.58
Working capital to gross inc         22.4 %         29.0 %         20.6 %           Term debt coverage ratio         1.83         2.51         1.4           Replacement coverage ratio         1.62         2.51         1.4           Solvency (end of year at market)         1.62         2.51         1.4           Solvency (end of year at market)         48         45         4           Number of farms         48         45         4           Total farm assets         997,087         951,896         824,09           Total farm liabilities         415,764         381,270         327,77           Total assets         1,150,065         1,113,306         970,91           Total liabilities         455,692         428,695         372,72           Net worth         694,373         684,611         598,18           Net worth change         44,495         95,765         35,98           Farm debt to asset ratio         40 %         39 %         38 %           Nonfarm Information         7         7         7           Net nonfarm income         21,307         21,021         18,34           Farms reporting living expenses         9         7         7           Total de				
Term debt coverage ratio       1.83       2.51       1.4         Replacement coverage ratio       1.62       2.51       1.4         Solvency (end of year at market)       1.62       2.51       1.4         Solvency (end of year at market)       1.62       2.51       1.4         Solvency (end of year at market)       48       45       4         Number of farms       48       45       4         Total farm lassets       997,087       951,896       824,09         Total farm liabilities       415,764       381,270       327,77         Total assets       1,150,065       1,113,306       970,91         Total liabilities       455,692       428,695       372,72         Net worth       694,373       684,611       598,18         Net worth change       44,495       95,765       35,98         Farm debt to asset ratio       40 %       39 %       38 %         Nonfarm Information       21,307       21,021       18,34         Net nonfarm income       21,307       21,021       18,34         Farms reporting living expense       48,620       43,632       38,83         Total family living expense       48,620       43,632       38,83     <				
Replacement coverage ratio         1.62         2.51         1.4           Solvency (end of year at market)         48         45         4           Number of farms         48         45         4           Total farm assets         997,087         951,896         824,09           Total farm liabilities         415,764         381,270         327,77           Total assets         1,150,065         1,113,306         970,97           Total liabilities         455,692         428,695         372,72           Net worth         694,373         684,611         598,18           Net worth change         44,495         95,765         35,98           Farm debt to asset ratio         40 %         39 %         38 9           Nonfarm Information         200         39 %         38 9           Net nonfarm income         21,307         21,021         18,34           Farms reporting living expenses         9         7         7           Total family living expense         48,620         43,632         38,83           Total family living expense         48,620         43,632         38,83           Total facres owned         225         229         21           Total crop				1.48
Number of farms         48         45         4           Total farm assets         997,087         951,896         824,09           Total farm liabilities         415,764         381,270         327,77           Total assets         1,150,065         1,113,306         970,91           Total liabilities         455,692         428,695         372,72           Net worth         694,373         684,611         598,18           Net worth change         44,495         95,765         35,98           Farm debt to asset ratio         42 %         40 %         40 %           Total debt to asset ratio         40 %         39 %         38 %           Nonfarm Information         7         7         7           Notal family living expenses         9         7         7           Total family living expenses         9         7         7           Total family living expenses         48,620         43,632         38,83           Total family living expenses         9         7         7           Total family living expenses         98,95         53,647         44,85           Crop Acres         7         398         35         35           Total crop acres <td></td> <td></td> <td></td> <td>1.48</td>				1.48
Number of farms         48         45         4           Total farm assets         997,087         951,896         824,09           Total farm liabilities         415,764         381,270         327,77           Total assets         1,150,065         1,113,306         970,91           Total liabilities         455,692         428,695         372,72           Net worth         694,373         684,611         598,18           Net worth change         44,495         95,765         35,98           Farm debt to asset ratio         42 %         40 %         40 %           Total debt to asset ratio         40 %         39 %         38 %           Nonfarm Information         7         7         7           Notal family living expenses         9         7         7           Total family living expenses         9         7         7           Total family living expense         48,620         43,632         38,83           Total family living expense         48,620         43,632         38,83           Total family living expenses         9         7         44,85           Crop Acres         7         7         398         35           Total acres owned<	Solveney (and of year at market)			
Total farm assets         997,087         951,896         824,09           Total farm liabilities         415,764         381,270         327,77           Total assets         1,150,065         1,113,306         970,91           Total liabilities         455,692         428,695         372,72           Net worth         694,373         684,611         598,18           Net worth change         44,495         95,765         35,98           Farm debt to asset ratio         42 %         40 %         40 %           Total debt to asset ratio         40 %         39 %         38 %           Nonfarm Information         7         7         7           Net nonfarm income         21,307         21,021         18,34           Farms reporting living expenses         9         7         7           Total family living expense         48,620         43,632         38,83           Total family living invest, cap. purch         49,895         53,647         44,85           Crop Acres         7         229         21         21           Total acres owned         225         229         21         21           Total acres owned         253         146         13         33<		18	15	46
Total farm liabilities         415,764         381,270         327,77           Total assets         1,150,065         1,113,306         970,91           Total liabilities         455,692         428,695         372,72           Net worth         694,373         684,611         598,18           Net worth change         44,495         95,765         35,98           Farm debt to asset ratio         42 %         40 %         40 %           Total debt to asset ratio         40 %         39 %         38 %           Nonfarm Information         7         7         7           Net nonfarm income         21,307         21,021         18,34           Farms reporting living expenses         9         7         7           Total family living expense         48,620         43,632         38,83           Total living, invest, cap. purch         49,895         53,647         44,85           Crop Acres         7         21         18,34           Total acres owned         225         229         21           Total crop acres         377         398         35           Total crop acres owned         153         146         13           Total crop acres cash rented				
Total assets         1,150,065         1,113,306         970,91           Total liabilities         455,692         428,695         372,72           Net worth         694,373         684,611         598,18           Net worth change         44,495         95,765         35,98           Farm debt to asset ratio         42 %         40 %         40 %           Total debt to asset ratio         40 %         39 %         38 %           Nonfarm Information         7         21,021         18,34           Farms reporting living expenses         9         7         7           Total family living expense         48,620         43,632         38,83           Total family living, invest, cap. purch         49,895         53,647         44,85           Crop Acres           Total acres owned         225         229         21           Total crop acres         377         398         35           Total crop acres owned         153         146         13           Total crop acres cash rented         209         238         20				
Total liabilities         455,692         428,695         372,72           Net worth         694,373         684,611         598,18           Net worth change         44,495         95,765         35,98           Farm debt to asset ratio         42 %         40 %         40 %           Total debt to asset ratio         40 %         39 %         38 %           Nonfarm Information         21,307         21,021         18,34           Farms reporting living expenses         9         7         7           Total family living expenses         9         7         7           Total family living expense         48,620         43,632         38,83           Total family living, invest, cap. purch         49,895         53,647         44,85           Crop Acres         7         21021         18,34           Total acres owned         225         229         21           Total crop acres         377         398         35           Total crop acres         377         398         35           Total crop acres owned         153         146         13           Total crop acres cash rented         209         238         20				
Net worth         694,373         684,611         598,18           Net worth change         44,495         95,765         35,98           Farm debt to asset ratio         42 %         40 %         40 %           Total debt to asset ratio         40 %         39 %         38 %           Nonfarm Information         40 %         39 %         38 %           Net nonfarm income         21,307         21,021         18,34           Farms reporting living expenses         9         7         7           Total family living expense         48,620         43,632         38,83           Total living, invest, cap. purch         49,895         53,647         44,85           Crop Acres         7         21         13         35           Total acres owned         225         229         21           Total crop acres         377         398         35           Total crop acres owned         153         146         13           Total crop acres cash rented         209         238         20				
Net worth change         44,495         95,765         35,98           Farm debt to asset ratio         42 %         40 %         40 %           Total debt to asset ratio         40 %         39 %         38 %           Nonfarm Information         40 %         39 %         38 %           Net nonfarm income         21,307         21,021         18,34           Farms reporting living expenses         9         7         7           Total family living expense         48,620         43,632         38,83           Total living, invest, cap. purch         49,895         53,647         44,85           Crop Acres         7         21         13         14           Total acres owned         225         229         21           Total crop acres         377         398         35           Total crop acres owned         153         146         13           Total crop acres cash rented         209         238         20		,		
Farm debt to asset ratio42 %40 %40 %Total debt to asset ratio40 %39 %38 %Nonfarm Information21,30721,02118,34Farms reporting living expenses97Total family living expense48,62043,63238,83Total living, invest, cap. purch49,89553,64744,85Crop Acres22522921Total acres owned22522921Total crop acres37739835Total crop acres owned15314613Total crop acres cash rented20923820				
Total debt to asset ratio40 %39 %38 %Nonfarm InformationNet nonfarm income21,30721,02118,34Farms reporting living expenses97Total family living expense48,62043,63238,83Total family living, invest, cap. purch49,89553,64744,85Crop AcresTotal acres owned22522921Total crop acres37739835Total crop acres owned15314613Total crop acres cash rented20923820				
Nonfarm InformationNet nonfarm income21,30721,02118,34Farms reporting living expenses97Total family living expense48,62043,63238,83Total living, invest, cap. purch49,89553,64744,85Crop AcresTotal acres owned22522921Total crop acres37739835Total crop acres owned15314613Total crop acres cash rented20923820				
Net nonfarm income21,30721,02118,34Farms reporting living expenses97Total family living expense48,62043,63238,83Total living, invest, cap. purch49,89553,64744,85Crop AcresTotal acres owned22522921Total crop acres37739835Total crop acres owned15314613Total crop acres cash rented20923820	l otal debt to asset ratio	40 %	39 %	38 %
Farms reporting living expenses97Total family living expense48,62043,63238,83Total living, invest, cap. purch49,89553,64744,85Crop AcresTotal acres owned22522921Total crop acres37739835Total crop acres owned15314613Total crop acres cash rented20923820	Nonfarm Information			
Total family living expense48,62043,63238,83Total living, invest, cap. purch49,89553,64744,85Crop Acres22522921Total acres owned22522921Total crop acres37739835Total crop acres owned15314613Total crop acres cash rented20923820	Net nonfarm income	21,307	21,021	18,344
Total family living expense         48,620         43,632         38,83           Total living, invest, cap. purch         49,895         53,647         44,85           Crop Acres         225         229         21           Total crop acres         377         398         35           Total crop acres owned         153         146         13           Total crop acres cash rented         209         238         20	Farms reporting living expenses	9	7	6
Total living, invest, cap. purch49,89553,64744,85Crop Acres22522921Total acres owned22522921Total crop acres37739835Total crop acres owned15314613Total crop acres cash rented20923820		48,620	43,632	38,833
Total acres owned         225         229         21           Total crop acres         377         398         35           Total crop acres owned         153         146         13           Total crop acres cash rented         209         238         20				44,853
Total acres owned         225         229         21           Total crop acres         377         398         35           Total crop acres owned         153         146         13           Total crop acres cash rented         209         238         20	Crop Acres			
Total crop acres         377         398         35           Total crop acres owned         153         146         13           Total crop acres cash rented         209         238         20		225	229	215
Total crop acres owned15314613Total crop acres cash rented20923820				351
Total crop acres cash rented 209 238 20	•			139
Lotal crop acres share rented 16 1/	Total crop acres share rented	16	14	5

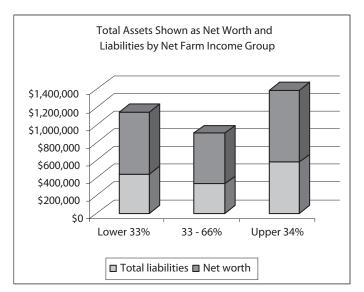
#### Table 2. Financial Summary All Participating Non-Organic Farms (Sorted By Year)

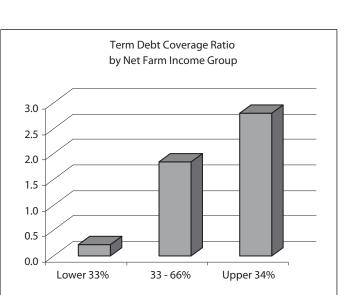
	2008	2007	2006
Number of farms	2361	2527	2409
Income Statement			
Gross cash farm income	681,889	600,204	502,298
Total cash farm expense	561,734	503,537	427,222
Net cash farm income	120,156	96,667	75,075
Inventory change	56,503	91,018	49,586
Depreciation	-34,812	-30,265	-27,352
Net farm income from operations	141,846	157,420	97,309
Gain or loss on capital sales	1,121	-	-
Average net farm income	142,967	157,420	97,309
Median net farm income	91,275	107,062	61,145
Profitability (cost)			
Rate of return on assets	10.5 %	14.0 %	9.3 %
Rate of return on equity	14.6 %	21.0 %	12.3 %
Operating profit margin	21.8 %	27.2 %	20.3 %
Asset turnover rate	48.1 %	51.4 %	46.1 %
Liquidity & Repayment (end of year)			
Current assets	465,171	407,357	332,184
Current liabilities	239,772	216,030	204,724
Current ratio	1.94	1.89	1.62
Working capital	225,399	191,327	127,460
Working capital to gross inc	31.4 %	28.1 %	23.0 %
Term debt coverage ratio	2.40	2.78	1.91
Replacement coverage ratio	2.05	2.78	1.91
Solvency (end of year at market)			
Number of farms	2,361	2,527	2,409
Total farm assets	1,747,305	1,566,457	1,418,806
Total farm liabilities	815,400	733,053	674,292
Total assets	1,925,162	1,743,866	1,593,159
Total liabilities	860,341	776,795	714,939
Net worth	1,064,821	967,071	878,220
Net worth change	105,544 47 %	145,981	96,806
Farm debt to asset ratio Total debt to asset ratio	47 %	47 % 45 %	48 % 45 %
	70 70		-0 /0
Nonfarm Information Net nonfarm income	25,191	24,589	24,720
			745
Farms reporting living expenses Total family living expense	780 50,955	770 48,048	45,299
Total living, invest, cap. purch	77,664	71,874	
rotar living, livest, cap. purch	77,004	71,074	68,580
Crop Acres	065	060	075
Total acres owned	265 795	268 785	275 791
Total crop acres Total crop acres owned	220	211	221
Total crop acres cash rented	551	550	545
Total crop acres share rented	23	24	25
Total crop acres shale renied	20	24	20

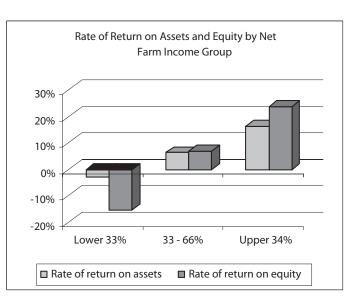












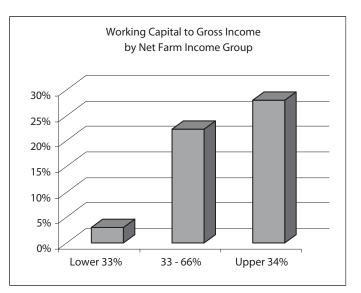
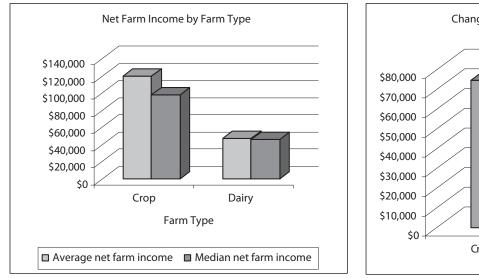
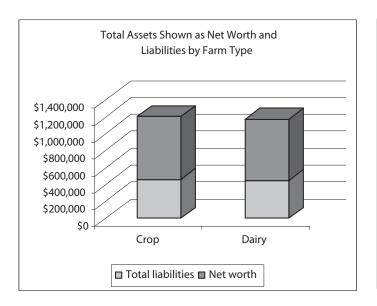
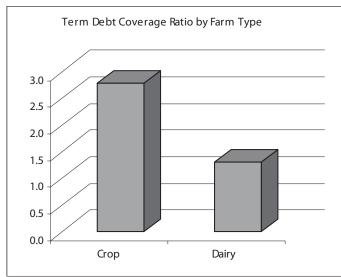


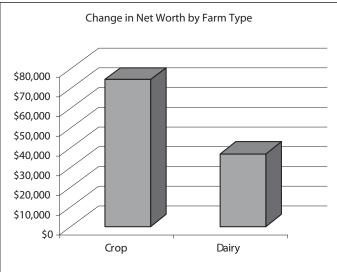
	Table 3. Fin	ancial Summary				
		ganic Farms, 2008				
(Sorted By Net Farm Income)						
	Avg. Of					
	All Farms	Low 33%	33 - 66%	High 34%		
Number of farms	48	15	16	17		
Income Statement						
Gross cash farm income	255,581	150,067	186,207	413,975		
Total cash farm expense	201,791	156,110	145,287	295,277		
Net cash farm income	53,791	-6,043	40,920	118,699		
Inventory change	31,859	3,959	23,855	64,011		
Depreciation	-18,402	-11,516	-16,658	-26,120		
Net farm income from operations	67,247	-13,600	48,116	156,589		
Gain or loss on capital sales	145	-	-155	555		
Average net farm income	67,392	-13,600	47,961	157,144		
Median net farm income	56,412	-1,808	46,376	122,639		
Profitability (cost)						
Rate of return on assets	8.9 %	-2.7 %	6.4 %	16.3 %		
Rate of return on equity	11.5 %	-15.5 %	7.0 %	23.9 %		
Operating profit margin	22.5 %	-10.6 %	20.4 %	31.5 %		
Asset turnover rate	39.7 %	25.8 %	31.2 %	51.6 %		
Liquidity & Repayment (end of year)						
Current assets	163,734	87,848	97,503	293,027		
Current liabilities	98,622	83,131	51,174	156,947		
Current ratio	1.66	1.06	1.91	1.87		
Working capital	65,112	4,717	46,329	136,080		
Working capital to gross inc	22.4 %	3.0 %	22.3 %	28.0 %		
Term debt coverage ratio	1.83	0.22	1.84	2.80		
Replacement coverage ratio	1.62	0.20	1.66	2.45		
Solvency (end of year at market)						
Number of farms	48	15	16	17		
Total farm assets	997,087	977,110	763,198	1,234,846		
Total farm liabilities	415,764	409,305	315,409	515,915		
Total assets	1,150,065	1,141,162	903,761	1,389,736		
Total liabilities	455,692	444,541	334,061	580,007		
Net worth	694,373	696,621	569,701	809,729		
Net worth change	44,495	-4,401	35,352	96,245		
Farm debt to asset ratio	42 %	42 %	41 %	42 %		
Total debt to asset ratio	40 %	39 %	37 %	42 %		
Nonfarm Information						
Net nonfarm income	21,307	27,234	24,195	13,360		
Farms reporting living expenses	9	3	21,100	4		
Total family living expense	48,620	-	-	-		
Total living, invest, cap. purch	49,895	-	-	-		
Crop Acres						
Total acres owned	225	217	161	293		
Total crop acres	377	212	208	682		
	153	111	88	251		
Total crop acres owned Total crop acres cash rented	153 209	111 99	88 120	251 389		

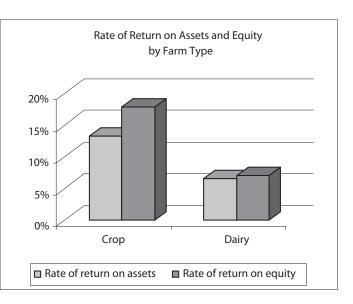
#### Figure C. Selected Factors by Farm Type - Completely Organic Farms

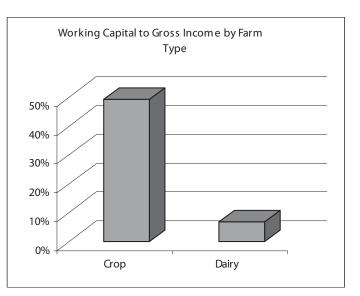






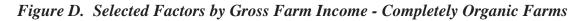


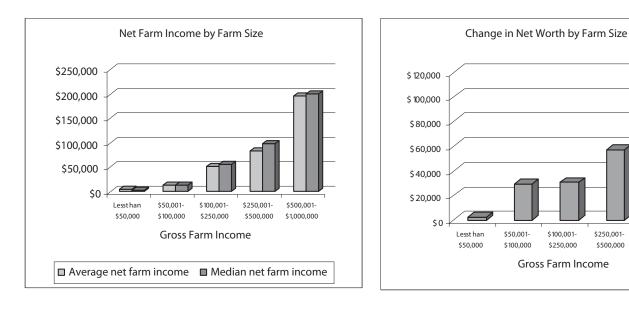


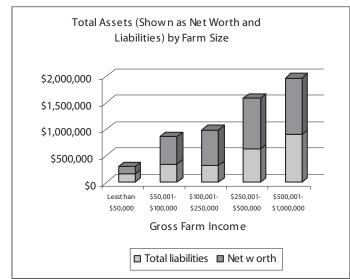


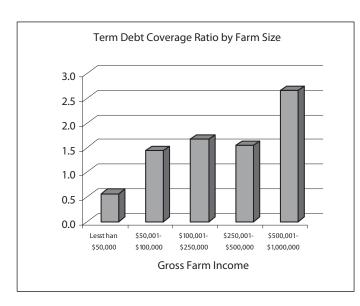
#### Table 4. Financial Summary Completely Organic Farms, 2008 (Sorted By Farm Type)

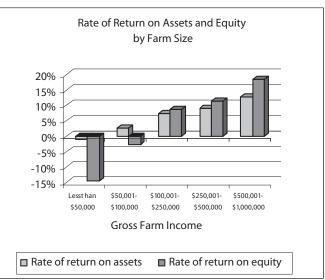
	Avg. Of All Farms	Сгор	Dairy
Number of farms	48	14	26
Income Statement			
Gross cash farm income	255,581	316,502	220,981
Total cash farm expense	201,791	239,070	175,017
Net cash farm income	53,791	77,432	45,964
Inventory change	31,859	69,587	14,912
Depreciation	-18,402	-26,654	-13,656
Net farm income from operations	67,247	120,365	47,219
Gain or loss on capital sales	145	, _	-96
Average net farm income	67,392	120,365	47,124
Median net farm income	56,412	98,337	46,376
Profitability (cost)			
Rate of return on assets	8.9 %	13.3 %	6.5 %
Rate of return on equity	11.5 %	17.9 %	7.0 %
Operating profit margin	22.5 %	28.8 %	19.3 %
Asset turnover rate	39.7 %	46.1 %	33.8 %
Liquidity & Repayment (end of year)			
Current assets	163,734	321,327	85,255
Current liabilities	98,622	128,300	68,699
Current ratio	1.66	2.50	1.24
Working capital	65,112	193,027	16,556
Working capital to gross inc	22.4 %	49.2 %	6.9 %
Term debt coverage ratio	1.83	2.79	1.30
Replacement coverage ratio	1.62	2.42	1.20
Solvency (end of year at market)			
Number of farms	48	14	26
Total farm assets	997,087	1,029,708	1,003,995
Total farm liabilities	415,764	432,622	395,180
Total assets	1,150,065	1,203,099	1,169,722
Total liabilities	455,692	465,108	445,433
Net worth	694,373	737,991	724,288
Net worth change	44,495	74,376	36,809
Farm debt to asset ratio	42 %	42 %	39 %
Total debt to asset ratio	40 %	39 %	38 %
Nonfarm Information	04.007	00.000	47 700
Net nonfarm income	21,307	33,328	17,799
Farms reporting living expenses	9	3	4
Total family living expense	48,620	-	-
Total living, invest, cap. purch	49,895	-	-
Crop Acres	005	057	047
Total acres owned	225	257	217
Total crop acres	377	734	209
Total crop acres owned	153	254	108
Total crop acres cash rented	209	428	100
Total crop acres share rented	16	52	1











\$500.001-

\$1,000,000

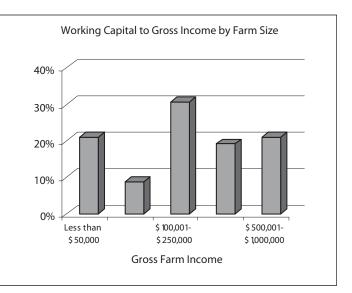


Table 5. Financial SummaryCompletely Organic Farms, 2008(Sorted By Gross Farm Income)						
	Avg. Of All Farms	Less than 50,000	50,001 - 100,000	100,001 - 250,000	250,001 - 500,000	500,001 - 1,000,000
Number of farms	48	6	7	18	10	7
ncome Statement						
Gross cash farm income	255,581	35,485	76,542	172,981	346,805	705,355
Total cash farm expense	201,791	48,538	66,432	132,448	282,920	530,920
Net cash farm income	53,791	-13,053	10,109	40,533	63,885	174,435
nventory change	31,859	21,982	11,758	22,428	45,306	65,468
Depreciation	-18,402	-3,986	-9,084	-12,126	-26,994	-43,941
Net farm income from operations	67,247	4,944	12,783	50,835	82,197	195,963
Gain or loss on capital sales	145	-,0-+	12,100	-138	943	100,000
Average net farm income	67,392	4,944	12,783	50,697	83,140	195,963
					,	
Median net farm income	56,412	3,009	13,177	56,412	97,551	200,204
Profitability (cost)						
Rate of return on assets	8.9 %	-1.1 %	2.8 %	7.5 %	9.0 %	12.9 %
Rate of return on equity	11.5 %	-14.7 %	-2.8 %	8.9 %	11.4 %	18.4 %
Operating profit margin	22.5 %	-3.5 %	13.8 %	25.0 %	20.8 %	24.6 %
Asset turnover rate	39.7 %	30.7 %	20.4 %	30.1 %	43.2 %	52.6 %
Liquidity & Repayment (end of ye	ar)					
Current assets	163,734	46,279	47,168	105,153	208,877	467,119
Current liabilities	98,622	34,631	39,066	45,050	132,471	302,427
Current ratio	1.66	1.34	1.21	2.33	1.58	1.54
Norking capital	65,112	11,648	8,102	60,104	76,406	164,691
Working capital to gross inc	22.4 %	21.0 %	8.8 %	30.7 %	19.2 %	21.0 %
Term debt coverage ratio	1.83	0.57	1.44	1.67	1.54	2.66
Replacement coverage ratio	1.62	0.51	1.33	1.44	1.42	2.26
Solvency (end of year at market)						
Number of farms	48	6	7	18	10	7
Total farm assets	997,087	232,379	656,793	826,378	1,406,608	1,846,784
Total farm liabilities	415,764	135,505	323,659	290,897	566,584	853,719
Total assets	1,150,065	292,502	866,075	989,687	1,581,953	1,964,525
Total liabilities	455,692	161,010	347,912	325,108	631,524	900,653
Net worth	694,373	131,492	518,163	664,579	950,429	1,063,872
	44,495	2,288	29,015	30,532		
Net worth change					57,305	113,760
Farm debt to asset ratio	42 %	58 %	49 %	35 %	40 %	46 %
Total debt to asset ratio	40 %	55 %	40 %	33 %	40 %	46 %
Nonfarm Information						
Net nonfarm income	21,307	20,938	50,273	18,553	14,769	9,082
Farms reporting living expenses	9	2	-	2	1	4
Total family living expense	48,620	-	-	-	-	
Fotal living, invest, cap. purch	49,895	-	-	-	-	
Crop Acres						
	225	107	137	225	269	35
Fotal acres owned						
Total crop acres	377	139	158	215	382	1,208
Total crop acres owned	153	83	88	110	164	374
Total crop acres cash rented	209	53	71	100	218	745
Total crop acres share rented	16	3	-	6	-	89

#### Figure E. Organic Crop, Forage, and Livestock Trends<sup>1</sup>

2008

103.26

\$9.43

\$67.71

\$427.41

\$601.35

\$3.37

\$4.14

18.27

\$22.84

\$52.80

\$354.64

\$183.18

\$15.81

\$19.41

47.72

\$8.36

\$48.14

\$247.67

\$170.80

\$3.69

\$5.19

57.71

\$4.73

\$43.82

\$193.24

\$107.36

\$2.36

\$3.35

43.84

\$15.04

\$67.76

\$367.68

\$314.14

\$6.75

\$8.73

2007

77.04

\$8.09

\$58.03

\$419.54

\$270.71

\$4.11

\$5.45

19.29

\$19.06

\$42.85

\$269.81

\$118.43

\$10.80

\$13.99

30.08

\$6.81

\$48.15

\$0.05

\$5.83

\$7.38

71.89

\$5.04

\$37.74

\$285.70

\$92.11

\$2.76

\$3.97

28.16

\$13.99

\$44.89

\$290.00

\$111.35

\$7.77

\$10.30

\$222.04

2006

85.94

\$5.29

\$67.60

\$325.24

\$148.37

\$2.79

\$3.78

14.13

\$14.63

\$44.79

\$273.42

-\$10.99

\$15.44

\$19.35

38.26

\$3.03

\$39.35

\$212.52

-\$88.88

\$4.23

\$5.56

23.82

\$6.49

\$40.51

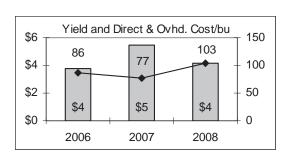
-\$7.93

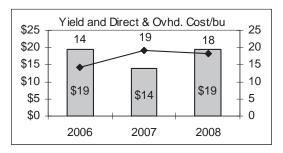
\$6.72

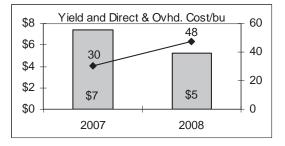
\$8.39

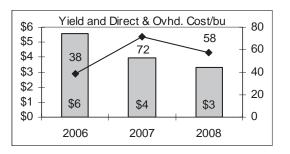
\$207.86

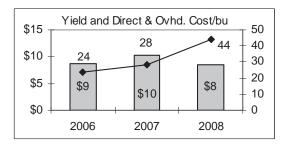
### Graphs show yields (line) and expenses (bar).

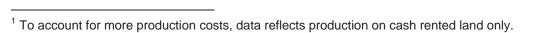












Corn

**Soybeans** 

Barley

Oats

Yield per Acre

Yield per Acre

Yield per Acre

Yield per Acre

Value per Bushel

Net Return per Acre

Yield per Acre

Value per Bushel

Net Return per Acre

Fuel, Oil, Repairs per Acre

Total Direct Exp per Bushel

Fuel, Oil, Repairs per Acre

Total Direct Exp per Bushel

Fuel, Oil, Repairs per Acre

Total Direct Exp per Bushel

Fuel, Oil, Repairs per Acre

Total Direct Exp per Bushel

Fuel, Oil, Repairs per Acre

Total Direct Exp per Bushel

Total Dir & Ovhd Exp per Acre

Total Dir & Ovhd Exp per Bushel

Total Dir & Ovhd Exp per Acre

Total Dir & Ovhd Exp per Bushel

Total Dir & Ovhd Exp per Acre

Total Dir & Ovhd Exp per Bushel

Total Dir & Ovhd Exp per Acre

Total Dir & Ovhd Exp per Bushel

Total Dir & Ovhd Exp per Acre

Total Dir & Ovhd Exp per Bushel

	2008	2007	2006	
<u>Alfalfa Hay</u>				
Yield per Acre	3.11	3.18	4.05	Yield and Direct & Ovhd. Cost/ton
Value per Ton	\$142.21	\$139.15	\$115.69	$150 \xrightarrow{4} 3 \xrightarrow{3} 4$
Fuel, Oil, Repairs per Acre	\$66.30	\$61.64	\$53.01	\$100 + + 4 3
Total Dir & Ovhd Exp per Acre	\$328.73	\$352.73	\$350.36	
Net Return per Acre	\$115.57	\$91.22	\$125.64	\$50 - \$86 \$111 \$106 - 1
Total Direct Exp per Ton	\$78.95	\$72.55	\$70.21	
Total Dir & Ovhd Exp per Ton	\$105.58	\$110.85	\$86.43	2006 2007 2008
<u>Corn Silage</u>				
Yield per Acre	11.09	13.57	15.64	Yield and Direct & Ovhd. Cost/ton
Value per Ton	\$44.04	\$32.29	\$27.21	\$40 20
Fuel, Oil, Repairs per Acre	\$80.00	\$108.55	\$76.26	
Total Dir & Ovhd Exp per Acre	\$342.00	\$408.44	\$399.17	\$20 + 10
Net Return per Acre	\$163.37	\$39.31	\$40.32	\$10 + \$26 \$20 \$20 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$5
Total Direct Exp per Ton	\$23.58	\$21.88	\$19.35	\$10 - \$26 \$30 \$31 5 \$0 - \$26 \$30 \$31 0
Total Dir & Ovhd Exp per Ton	\$30.84	\$30.10	\$25.53	2006 2007 2008
Dairy				
Production/Cow	12,629	13,372	12,323	Milk Price (line) & Cost to Produce (bar) \$19
Price Rec'vd/Cwt Milk	\$25.39	\$24.44	\$22.15	\$24
Total Feed Cost/Cwt Milk	\$10.31	\$10.47	\$7.64	\$10 + \$22 \$25 + \$24
Return over Feed/Cwt Milk	\$5.95	\$5.30	\$4.67	\$16 + \$22
Net Return/Cwt Milk	\$2.33	\$2.33	\$2.06	\$15 - \$16 \$18 \$19 \$20
Total Direct & Ovhd Exp/Cwt	\$18.60	\$18.24	\$16.07	2006 2007 2008

### **INTRODUCTION TO THE CROP REPORTS**

The Crop Production and Marketing Summary in Table 6 offers a snapshot of yields and prices received for crops in 2006, 2007, and 2008. The Crop Enterprise Analysis tables that follow (Tables 7-22) show the average physical production, gross return, direct expenses, overhead expenses, and net returns per acre for various cropping enterprises on both completely and partially organic farms. Separate tables are included for owned and cash rented land. The reports include historical comparisons of enterprise returns for years 2006 through 2008, and only crops with sufficient instances to summarize are included.

*Gross Return per acre* includes the value of the crop produced plus any other income directly associated with production of the crop, including LDP payments, crop insurance proceeds and any disaster payments that might have been received. It does not include direct and counter-cyclical government payments (see *Net return with government payments*).

*The Value per unit* (ton or bushel) is assigned by the producer. For cash crops, the value is based on the actual sales price for production sold or contracted before year-end and the inventory value for crops still in inventory at year-end. The local harvest-time price is used for forages and other feed crops.

*Net return per acre* is the amount contributed toward operator labor, management, and equity capital. Land costs include land rent on the rented land pages but only actual interest paid and real estate taxes on owned land. For this reason, net returns from owned and rented land should not be compared.

*Net return with government payments* is the net return per acre after decoupled government payments such as direct and counter-cyclical government payments have been added. These payments are generally allocated evenly per acre across all crops except vegetables and pasture.

*Net return over labor and management* is the return, including government payments, after compensating the operator for unpaid labor and management. This is also known as the per acre return to equity capital.

Cost of production shows the average cost per unit produced in each cost category:

*Total direct and overhead expense per unit* is the break even price needed to cover cash costs and depreciation.

*Less government and other income* is the break even price when government payments and any miscellaneous income are used to offset some expenses.

*With labor and management* is the break even price to provide a labor and management return for the operator(s).

*Machinery cost per acre* includes fuel and oil, repairs, custom hire, machinery lease payments, machinery depreciation, and interest on intermediate debt.

# Table 6. Crop Production and Marketing SummaryCompletely and Partially Organic Farms(Sorted By Year)

Acreage Summary         Total acres owned       245       284       264         Total crop acres       451       552       514         Crop acres owned       176       197       174         Crop acres cash rented       263       337       316         Crop acres share rented       11       18       25         Total pasture acres       47       33       27         Percent crop acres owned       39%       36%       34%         Average Price Received (Cash Sales Only)       V       V       V         Soybeans, Organic per bushel       22.5       16.17       14.17         Soybeans per bushel       11.58       7.96       6.32         Corn per bushel       5.06       3.76       2.11         Corn, Organic per bushel       8.71       6.62       5.19         Hay, Alfalfa, Organic per ton       120.39       125.17       132.22         Wheat, Spring per bushel       6.8       4.7       4.11         Oats, Organic per bushel       -       4.94       -         Hay, Alfalfa per ton       -       78.85       -				
Acreage Summary         Total acres owned       245       284       264         Crop acres owned       176       197       174         Crop acres owned       176       197       174         Crop acres share rented       263       337       316         Crop acres share rented       11       18       25         Total pasture acres       47       33       27         Percent crop acres owned       39%       36%       34%         Average Price Received (Cash Sales Only)       Soybeans, Organic per bushel       22.5       16.17       14.17         Soybeans, Organic per bushel       11.58       7.96       6.32       Com per bushel       5.06       3.76       2.11         Com, Organic per bushel       8.71       6.62       5.19       14.17       132.22         Wheat, Spring per bushel       -       4.94       -       -       78.85       Barley, Organic per bushel       -       74.11         Oats, Organic per bushel       -       -       78.85       3.5       3.81         Com, Organic per bushel       -       -       78.85       3.5       3.81         Com, Organic per bushel       -       -       5.54       - <th></th> <th>2008</th> <th>2007</th> <th>2006</th>		2008	2007	2006
Total acres owned       245       284       264         Total crop acres       451       552       514         Crop acres owned       176       197       174         Crop acres cash rented       263       337       316         Crop acres share rented       11       18       25         Total pasture acres       47       33       27         Percent crop acres owned       39%       36%       34%         Average Price Received (Cash Sales Only)       506       3.76       2.11         Soybeans, Organic per bushel       22.5       16.17       14.17         Soybeans per bushel       5.06       3.76       2.11         Corn, Organic per bushel       8.71       6.62       5.19         Hay, Alfalfa, Organic per ton       120.39       125.17       132.22         Wheat, Spring per bushel       -       4.94       -         Ay, Affalfa, Organic (ton)       3.3       3.35       3.81         Corn, Organic per bushel       -       5.54       -         Average Yield Per Acre       -       78.85       39.83         Barley, Organic (bushel)       110.94       78.74       90.03         Soybeans, Organic (bushel)	Number of farms	73	64	70
Total acres owned       245       284       264         Total crop acres       451       552       514         Crop acres owned       176       197       174         Crop acres cash rented       263       337       316         Crop acres share rented       11       18       25         Total pasture acres       47       33       27         Percent crop acres owned       39%       36%       34%         Average Price Received (Cash Sales Only)       506       3.76       2.11         Soybeans, Organic per bushel       22.5       16.17       14.17         Soybeans per bushel       5.06       3.76       2.11         Corn, Organic per bushel       8.71       6.62       5.19         Hay, Alfalfa, Organic per ton       120.39       125.17       132.22         Wheat, Spring per bushel       -       4.94       -         Ay, Affalfa, Organic (ton)       3.3       3.35       3.81         Corn, Organic per bushel       -       5.54       -         Average Yield Per Acre       -       78.85       39.83         Barley, Organic (bushel)       110.94       78.74       90.03         Soybeans, Organic (bushel)	Acreage Summary			
Total crop acres       451       552       514         Crop acres owned       176       197       174         Crop acres cash rented       263       337       316         Crop acres share rented       11       18       25         Total pasture acres       47       33       27         Percent crop acres owned       39%       36%       34%         Average Price Received (Cash Sales Only)       50ybeans, Organic per bushel       22.5       16.17       14.17         Soybeans, Organic per bushel       5.06       3.76       2.11       Corn, Organic per bushel       5.06       3.76       2.11         Corn, Organic per bushel       6.8       4.7       4.11       0ats, Organic per bushel       -       4.94       -         Hay, Alfalfa, Organic per ton       120.39       125.17       132.22       -         Hay, Alfalfa, Organic per bushel       -       4.94       -       -         Hay, Alfalfa, Organic per bushel       -       -       78.85       -         Barley, Organic (bushel)       110.94       78.74       90.03       Soybeans, Organic (bushel)       110.94       78.74       90.03         Soybeans, Organic (bushel)       16.55       77.31       <		245	284	264
Crop acres owned         176         197         174           Crop acres cash rented         263         337         316           Crop acres share rented         11         18         25           Total pasture acres         47         33         27           Percent crop acres owned         39%         36%         34%           Average Price Received (Cash Sales Only)         50ybeans, Organic per bushel         22.5         16.17         14.17           Soybeans, Organic per bushel         11.58         7.96         6.32         6.32           Corn, Organic per bushel         5.06         3.76         2.11         Corn, Organic per bushel         6.82         5.19           Hay, Alfalfa, Organic per ton         120.39         125.17         132.22         Wheat, Spring per bushel         6.8         4.7         4.11           Oats, Organic per bushel         -         4.94         -         -           Hay, Alfalfa, Organic per bushel         -         5.54         -         -           Soybeans, Organic (bushel)         110.94         78.74         90.03         Soybeans (bushel)         110.94         78.74         90.03           Soybeans, Organic (bushel)         110.94         78.74         90.03<				
Crop acres cash rented         263         337         316           Crop acres share rented         11         18         25           Total pasture acres         47         33         27           Percent crop acres owned         39%         36%         34%           Average Price Received (Cash Sales Only)           34%           Average Price Received (Cash Sales Only)           47         33         27           Soybeans, Organic per bushel         22.5         16.17         14.17         50         6.32         6.32         6.32         6.32         6.32         6.32         6.32         5.19         Hay, Alfalfa, Organic per bushel         8.71         6.62         5.19         Hay, Alfalfa, Organic per bushel         6.8         4.7         4.11         0ats, Organic per bushel         -         4.94         -         -         78.85         Barley, Organic per bushel         -         -         78.85         Barley, Organic (bushel)         110.94         78.74         90.03         Soybeans, Organic (ton)         3.3         3.35         3.81         Corn, Organic (bushel)         110.94         78.74         90.03         Soybeans, Organic (bushel)         31.13         33.98         31.53         Corn			197	
Crop acres share rented         11         18         25           Total pasture acres         47         33         27           Percent crop acres owned         39%         36%         34%           Average Price Received (Cash Sales Only)         Soybeans, Organic per bushel         22.5         16.17         14.17           Soybeans, Organic per bushel         11.58         7.96         6.32         Corn per bushel         5.06         3.76         2.11           Corn, Organic per bushel         8.71         6.62         5.19         Hay, Alfalfa, Organic per ton         120.39         125.17         132.22           Wheat, Spring per bushel         6.8         4.7         4.11         Oats, Organic per bushel         -         78.85           Barley, Organic per bushel         -         4.94         -         -           Hay, Alfalfa, Organic (ton)         3.3         3.35         3.81           Corn, Organic (bushel)         110.94         78.74         90.03           Soybeans, Organic (ton)         12.62         11.64         14.7           Oats, Organic (bushel)         31.13         33.98         31.53           Corn Silage, Organic (ton)         12.62         11.64         14.7 <td< td=""><td>•</td><td>263</td><td>337</td><td>316</td></td<>	•	263	337	316
Total pasture acres         47         33         27           Percent crop acres owned         39%         36%         34%           Average Price Received (Cash Sales Only)         Soybeans, Organic per bushel         22.5         16.17         14.17           Soybeans, Organic per bushel         11.58         7.96         6.32           Corn per bushel         5.06         3.76         2.11           Corn, Organic per bushel         8.71         6.62         5.19           Hay, Alfalfa, Organic per ton         120.39         125.17         132.22           Wheat, Spring per bushel         6.8         4.7         4.11           Oats, Organic per bushel         -         4.94         -           Ay, Alfalfa per ton         -         -         78.85           Barley, Organic per bushel         -         5.54         -           Average Yield Per Acre         -         5.54         -           Hay, Alfalfa, Organic (ton)         3.3         3.35         3.81           Corn, Organic (bushel)         110.94         78.74         90.03           Soybeans, Organic (bushel)         31.13         33.98         31.53           Corn Silage, Organic (ton)         12.62         11.64	•		18	25
Percent crop acres owned         39%         36%         34%           Average Price Received (Cash Sales Only)         Soybeans, Organic per bushel         22.5         16.17         14.17           Soybeans, Organic per bushel         11.58         7.96         6.32           Corn per bushel         5.06         3.76         2.11           Corn, Organic per bushel         8.71         6.62         5.19           Hay, Alfalfa, Organic per ton         120.39         125.17         132.22           Wheat, Spring per bushel         6.8         4.7         4.11           Oats, Organic per bushel         -         4.94         -           Hay, Alfalfa per ton         -         -         78.85           Barley, Organic per bushel         -         5.54         -           Average Yield Per Acre         -         -         78.85           Barley, Organic (bushel)         110.94         78.74         90.03           Soybeans, Organic (bushel)         18.56         20.83         15.11           Soybeans (bushel)         110.94         78.74         90.03           Soybeans (bushel)         112.62         11.64         14.7           Oarn Silage, Organic (ton)         12.62         11.64 <td>•</td> <td>47</td> <td>33</td> <td>27</td>	•	47	33	27
Soybeans, Organic per bushel         22.5         16.17         14.17           Soybeans per bushel         11.58         7.96         6.32           Corn per bushel         5.06         3.76         2.11           Corn, Organic per bushel         8.71         6.62         5.19           Hay, Alfalfa, Organic per ton         120.39         125.17         132.22           Wheat, Spring per bushel         6.8         4.7         4.11           Oats, Organic per bushel         -         4.94         -           Hay, Alfalfa per ton         -         -         78.85           Barley, Organic per bushel         -         5.54         -           Average Yield Per Acre         -         -         78.85           Barley, Organic (ton)         3.3         3.35         3.81           Corn, Organic (bushel)         110.94         78.74         90.03           Soybeans, Organic (bushel)         18.56         20.83         15.11           Soybeans (bushel)         11.13         33.98         31.53           Corn Silage, Organic (ton)         12.62         11.64         14.7           Oats, Organic (bushel)         56.55         77.31         40.12           Orm (bushel	•	39%	36%	34%
Soybeans, Organic per bushel         22.5         16.17         14.17           Soybeans per bushel         11.58         7.96         6.32           Corn per bushel         5.06         3.76         2.11           Corn, Organic per bushel         8.71         6.62         5.19           Hay, Alfalfa, Organic per ton         120.39         125.17         132.22           Wheat, Spring per bushel         6.8         4.7         4.11           Oats, Organic per bushel         -         4.94         -           Hay, Alfalfa per ton         -         -         78.85           Barley, Organic per bushel         -         5.54         -           Average Yield Per Acre         -         -         78.85           Barley, Organic (ton)         3.3         3.35         3.81           Corn, Organic (bushel)         110.94         78.74         90.03           Soybeans, Organic (bushel)         18.56         20.83         15.11           Soybeans (bushel)         11.13         33.98         31.53           Corn Silage, Organic (ton)         12.62         11.64         14.7           Oats, Organic (bushel)         56.55         77.31         40.12           Orm (bushel	Average Price Received (Cash Sales On	niv)		
Soybeans per bushel         11.58         7.96         6.32           Corn per bushel         5.06         3.76         2.11           Corn, Organic per bushel         8.71         6.62         5.19           Hay, Alfalfa, Organic per ton         120.39         125.17         132.22           Wheat, Spring per bushel         6.8         4.7         4.11           Oats, Organic per bushel         -         4.94         -           Hay, Alfalfa per ton         -         -         78.85           Barley, Organic per bushel         -         5.54         -           Average Yield Per Acre         -         78.74         90.03           Soybeans, Organic (ton)         3.3         3.35         3.81           Corn, Organic (bushel)         110.94         78.74         90.03           Soybeans, Organic (bushel)         18.56         20.83         15.11           Soybeans (bushel)         31.13         33.98         31.53           Corn (bushel)         12.62         11.64         14.7           Oats, Organic (bushel)         56.55         77.31         40.12           Corn (bushel)         51.55         31.85         31.81           Pasture, Organic (bushel)	- ·		16.17	14,17
Corn per bushel         5.06         3.76         2.11           Corn, Organic per bushel         8.71         6.62         5.19           Hay, Alfalfa, Organic per ton         120.39         125.17         132.22           Wheat, Spring per bushel         6.8         4.7         4.11           Oats, Organic per bushel         -         4.94         -           Hay, Alfalfa per ton         -         -         78.85           Barley, Organic per bushel         -         5.54         -           Average Yield Per Acre         -         5.54         -           Hay, Alfalfa, Organic (ton)         3.3         3.35         3.81           Corn, Organic (bushel)         110.94         78.74         90.03           Soybeans, Organic (bushel)         18.56         20.83         15.11           Soybeans, Organic (bushel)         31.13         33.98         31.53           Corn Silage, Organic (ton)         12.62         11.64         14.7           Oats, Organic (aum)         5.77         3.89         7.47           Barley, Organic (bushel)         51.55         31.85         31.81           Pasture, Organic (bushel)         51.55         31.85         31.81 <t< td=""><td></td><td></td><td></td><td></td></t<>				
Corn, Organic per bushel         8.71         6.62         5.19           Hay, Alfalfa, Organic per ton         120.39         125.17         132.22           Wheat, Spring per bushel         6.8         4.7         4.11           Oats, Organic per bushel         -         4.94         -           Hay, Alfalfa per ton         -         -         78.85           Barley, Organic per bushel         -         5.54         -           Average Yield Per Acre         -         5.54         -           Hay, Alfalfa, Organic (ton)         3.3         3.35         3.81           Corn, Organic (bushel)         110.94         78.74         90.03           Soybeans, Organic (bushel)         18.56         20.83         15.11           Soybeans (bushel)         131.13         33.98         31.53           Corn Silage, Organic (bushel)         12.62         11.64         14.7           Oats, Organic (bushel)         56.55         77.31         40.12           Corn (bushel)         51.55         31.85         31.81           Pasture, Organic (bushel)         51.55         31.85         31.81           Hay, Grass, Organic (bushel)         2.63         2.98         2.98				
Hay, Alfalfa, Organic per ton       120.39       125.17       132.22         Wheat, Spring per bushel       6.8       4.7       4.11         Oats, Organic per bushel       -       4.94       -         Hay, Alfalfa per ton       -       -       78.85         Barley, Organic per bushel       -       5.54       -         Average Yield Per Acre       -       5.54       -         Hay, Alfalfa, Organic (ton)       3.3       3.35       3.81         Corn, Organic (bushel)       110.94       78.74       90.03         Soybeans, Organic (bushel)       18.56       20.83       15.11         Soybeans (bushel)       31.13       33.98       31.53         Corn Silage, Organic (ton)       12.62       11.64       14.7         Oats, Organic (bushel)       56.55       77.31       40.12         Corn (bushel)       51.55       31.85       31.81         Pasture, Organic (bushel)       51.55       31.85       31.81         Hay, Grass, Organic (ton)       2.81       2.63       2.98         Wheat, Spring (bushel)       60.59       53.18       42.41         CRP (\$)       60.24       -       56.84         Hay, Mixed, Organic	•		6.62	
Wheat, Spring per bushel       6.8       4.7       4.11         Oats, Organic per bushel       -       4.94       -         Hay, Alfalfa per ton       -       -       78.85         Barley, Organic per bushel       -       5.54       -         Average Yield Per Acre       -       5.54       -         Hay, Alfalfa, Organic (ton)       3.3       3.35       3.81         Corn, Organic (bushel)       110.94       78.74       90.03         Soybeans, Organic (bushel)       18.56       20.83       15.11         Soybeans (bushel)       31.13       33.98       31.53         Corn Silage, Organic (ton)       12.62       11.64       14.7         Oats, Organic (bushel)       56.55       77.31       40.12         Corn (bushel)       51.55       31.85       31.81         Pasture, Organic (aum)       5.7       3.89       7.47         Barley, Organic (bushel)       51.55       31.85       31.81         Hay, Grass, Organic (ton)       2.81       2.63       2.98         Wheat, Spring, Organic (bushel)       43.36       25.33       27.65         Wheat, Spring (bushel)       60.59       53.18       42.41         CRP (\$)	•			
Oats, Organic per bushel       -       4.94       -         Hay, Alfalfa per ton       -       78.85         Barley, Organic per bushel       -       5.54       -         Average Yield Per Acre       -       5.54       -         Hay, Alfalfa, Organic (ton)       3.3       3.35       3.81         Corn, Organic (bushel)       110.94       78.74       90.03         Soybeans, Organic (bushel)       18.56       20.83       15.11         Soybeans (bushel)       31.13       33.98       31.53         Corn Silage, Organic (ton)       12.62       11.64       14.7         Oats, Organic (bushel)       56.55       77.31       40.12         Corn (bushel)       156.33       134.08       151.12         Pasture, Organic (bushel)       51.55       31.85       31.81         Pasture, Organic (bushel)       51.55       31.85       31.81         Hay, Grass, Organic (ton)       2.81       2.63       2.98         Wheat, Spring, Organic (bushel)       43.36       25.33       27.65         Wheat, Spring (bushel)       60.59       53.18       42.41         CRP (\$)       60.24       -       56.84         Hay, Mixed, Organic (ton) <td></td> <td></td> <td>4.7</td> <td></td>			4.7	
Hay, Alfalfa per ton       -       -       78.85         Barley, Organic per bushel       -       5.54       -         Average Yield Per Acre       -       -       5.54       -         Hay, Alfalfa, Organic (ton)       3.3       3.35       3.81         Corn, Organic (bushel)       110.94       78.74       90.03         Soybeans, Organic (bushel)       18.56       20.83       15.11         Soybeans (bushel)       31.13       33.98       31.53         Corn Silage, Organic (ton)       12.62       11.64       14.7         Oats, Organic (bushel)       56.55       77.31       40.12         Corn (bushel)       156.33       134.08       151.12         Pasture, Organic (aum)       5.7       3.89       7.47         Barley, Organic (bushel)       51.55       31.85       31.81         Hay, Grass, Organic (ton)       2.81       2.63       2.98         Wheat, Spring, Organic (bushel)       43.36       25.33       27.65         Wheat, Spring (bushel)       60.59       53.18       42.41         CRP (\$)       60.24       -       56.84         Hay, Mixed, Organic (ton)       2.53       -       - <td></td> <td>-</td> <td>4.94</td> <td>-</td>		-	4.94	-
Barley, Organic per bushel       -       5.54       -         Average Yield Per Acre       -       -       -         Hay, Alfalfa, Organic (ton)       3.3       3.35       3.81         Corn, Organic (bushel)       110.94       78.74       90.03         Soybeans, Organic (bushel)       18.56       20.83       15.11         Soybeans (bushel)       31.13       33.98       31.53         Corn Silage, Organic (ton)       12.62       11.64       14.7         Oats, Organic (bushel)       56.55       77.31       40.12         Corn (bushel)       156.33       134.08       151.12         Pasture, Organic (aum)       5.7       3.89       7.47         Barley, Organic (bushel)       51.55       31.85       31.81         Hay, Grass, Organic (ton)       2.81       2.63       2.98         Wheat, Spring, Organic (bushel)       43.36       25.33       27.65         Wheat, Spring (bushel)       60.59       53.18       42.41         CRP (\$)       60.24       -       56.84         Hay, Mixed, Organic (ton)       2.53       -       -		-	-	78.85
Hay, Alfalfa, Organic (ton)3.33.353.81Corn, Organic (bushel)110.9478.7490.03Soybeans, Organic (bushel)18.5620.8315.11Soybeans (bushel)31.1333.9831.53Corn Silage, Organic (ton)12.6211.6414.7Oats, Organic (bushel)56.5577.3140.12Corn (bushel)56.5577.3140.12Pasture, Organic (aum)5.73.897.47Barley, Organic (bushel)51.5531.8531.81Hay, Grass, Organic (ton)2.812.632.98Wheat, Spring, Organic (bushel)43.3625.3327.65Wheat, Spring (bushel)60.5953.1842.41CRP (\$)60.24-56.84Hay, Mixed, Organic (ton)2.53	Barley, Organic per bushel	-	5.54	-
Hay, Alfalfa, Organic (ton)3.33.353.81Corn, Organic (bushel)110.9478.7490.03Soybeans, Organic (bushel)18.5620.8315.11Soybeans (bushel)31.1333.9831.53Corn Silage, Organic (ton)12.6211.6414.7Oats, Organic (bushel)56.5577.3140.12Corn (bushel)56.5577.3140.12Pasture, Organic (aum)5.73.897.47Barley, Organic (bushel)51.5531.8531.81Hay, Grass, Organic (ton)2.812.632.98Wheat, Spring, Organic (bushel)43.3625.3327.65Wheat, Spring (bushel)60.5953.1842.41CRP (\$)60.24-56.84Hay, Mixed, Organic (ton)2.53	Average Yield Per Acre			
Corn, Organic (bushel)110.9478.7490.03Soybeans, Organic (bushel)18.5620.8315.11Soybeans (bushel)31.1333.9831.53Corn Silage, Organic (ton)12.6211.6414.7Oats, Organic (bushel)56.5577.3140.12Corn (bushel)56.5577.3140.12Corn (bushel)55.7531.84151.12Pasture, Organic (aum)5.73.897.47Barley, Organic (bushel)51.5531.8531.81Hay, Grass, Organic (ton)2.812.632.98Wheat, Spring, Organic (bushel)43.3625.3327.65Wheat, Spring (bushel)60.5953.1842.41CRP (\$)60.24-56.84Hay, Mixed, Organic (ton)2.53	•	3.3	3.35	3.81
Soybeans, Organic (bushel)         18.56         20.83         15.11           Soybeans (bushel)         31.13         33.98         31.53           Corn Silage, Organic (ton)         12.62         11.64         14.7           Oats, Organic (bushel)         56.55         77.31         40.12           Corn (bushel)         156.33         134.08         151.12           Pasture, Organic (aum)         5.7         3.89         7.47           Barley, Organic (bushel)         51.55         31.85         31.81           Hay, Grass, Organic (ton)         2.81         2.63         2.98           Wheat, Spring, Organic (bushel)         43.36         25.33         27.65           Wheat, Spring (bushel)         60.59         53.18         42.41           CRP (\$)         60.24         -         56.84           Hay, Mixed, Organic (ton)         2.53         -         -	• • • • •			
Soybeans (bushel)31.1333.9831.53Corn Silage, Organic (ton)12.6211.6414.7Oats, Organic (bushel)56.5577.3140.12Corn (bushel)156.33134.08151.12Pasture, Organic (aum)5.73.897.47Barley, Organic (bushel)51.5531.8531.81Hay, Grass, Organic (ton)2.812.632.98Wheat, Spring, Organic (bushel)43.3625.3327.65Wheat, Spring (bushel)60.5953.1842.41CRP (\$)60.24-56.84Hay, Mixed, Organic (ton)2.53		18.56	20.83	15.11
Oats, Organic (bushel)         56.55         77.31         40.12           Corn (bushel)         156.33         134.08         151.12           Pasture, Organic (aum)         5.7         3.89         7.47           Barley, Organic (bushel)         51.55         31.85         31.81           Hay, Grass, Organic (ton)         2.81         2.63         2.98           Wheat, Spring, Organic (bushel)         43.36         25.33         27.65           Wheat, Spring (bushel)         60.59         53.18         42.41           CRP (\$)         60.24         -         56.84           Hay, Mixed, Organic (ton)         2.53         -         -		31.13	33.98	31.53
Oats, Organic (bushel)         56.55         77.31         40.12           Corn (bushel)         156.33         134.08         151.12           Pasture, Organic (aum)         5.7         3.89         7.47           Barley, Organic (bushel)         51.55         31.85         31.81           Hay, Grass, Organic (ton)         2.81         2.63         2.98           Wheat, Spring, Organic (bushel)         43.36         25.33         27.65           Wheat, Spring (bushel)         60.59         53.18         42.41           CRP (\$)         60.24         -         56.84           Hay, Mixed, Organic (ton)         2.53         -         -	Corn Silage, Organic (ton)	12.62	11.64	14.7
Corn (bushel)156.33134.08151.12Pasture, Organic (aum)5.73.897.47Barley, Organic (bushel)51.5531.8531.81Hay, Grass, Organic (ton)2.812.632.98Wheat, Spring, Organic (bushel)43.3625.3327.65Wheat, Spring (bushel)60.5953.1842.41CRP (\$)60.24-56.84Hay, Mixed, Organic (ton)2.53		56.55	77.31	40.12
Barley, Organic (bushel)51.5531.8531.81Hay, Grass, Organic (ton)2.812.632.98Wheat, Spring, Organic (bushel)43.3625.3327.65Wheat, Spring (bushel)60.5953.1842.41CRP (\$)60.24-56.84Hay, Mixed, Organic (ton)2.53		156.33	134.08	151.12
Hay, Grass, Organic (ton)2.812.632.98Wheat, Spring, Organic (bushel)43.3625.3327.65Wheat, Spring (bushel)60.5953.1842.41CRP (\$)60.24-56.84Hay, Mixed, Organic (ton)2.53		5.7	3.89	7.47
Wheat, Spring, Organic (bushel)         43.36         25.33         27.65           Wheat, Spring (bushel)         60.59         53.18         42.41           CRP (\$)         60.24         -         56.84           Hay, Mixed, Organic (ton)         2.53         -         -		51.55	31.85	31.81
Wheat, Spring (bushel)         60.59         53.18         42.41           CRP (\$)         60.24         -         56.84           Hay, Mixed, Organic (ton)         2.53         -         -		2.81	2.63	2.98
CRP (\$)         60.24         -         56.84           Hay, Mixed, Organic (ton)         2.53         -         -	Wheat, Spring, Organic (bushel)	43.36	25.33	27.65
Hay, Mixed, Organic (ton) 2.53	Wheat, Spring (bushel)	60.59	53.18	42.41
			-	56.84
Sunflowers, Organic (cwt) - 12.59 -		2.53	-	-
	Sunflowers, Organic (cwt)	-	12.59	-

## Table 7. Crop Enterprise AnalysisAlfalfa Hay, Organic, on Owned Land

	2008	2007	2006
Number of fields Number of farms	29 21	28 21	28 19
Acres	62.28	62.17	49.03
Yield per acre (ton)	3.56	3.56	3.54
Operators share of yield %	100.00	100.00	100.00
Value per ton	138.16	148.96	122.17
Total product return per acre	491.20	530.92	432.77
Other crop income per acre	1.25	-	14.97
Gross return per acre	492.44	530.92	447.75
Direct Expenses			
Seed	1.16	6.49	1.30
Fertilizer	31.61	30.59	34.14
Non-chemical crop protect	0.64	-	-
Crop insurance	1.51	1.63	0.65
Storage	1.07		-
Fuel & oil	35.58	35.84	26.01
Repairs	33.16	35.31	27.76
Repair, machinery	7.19	2.34	5.45
Custom hire	42.00	61.03	92.94
Repair, buildings Hired labor	4.99 0.36	0.47	0.56 4.52
Machinery leases	0.50	-	4.52
Hauling and trucking	0.08	7.85	13.17
Marketing	0.14	7.05	1.22
Organic certification	2.30	2.56	1.37
Operating interest	7.44	7.68	6.56
Miscellaneous	6.00	0.74	1.83
Total direct expenses per acre	175.24	192.53	219.08
Return over direct exp per acre	317.21	338.38	228.66
Overhead Expenses			
Repair, machinery	-	6.45	-
Custom hire	0.18	19.87	3.88
Hired labor	16.12	14.08	11.81
Machinery leases	1.87	6.47	1.42
Building leases	5.74	-	1.06
RE & pers. property taxes	11.52	10.89	10.02
Farm insurance	6.61	8.23	5.99
Utilities	6.38	5.62	3.41
Dues & professional fees	3.52	9.32	4.17
Interest	30.26	48.30	37.01
Mach & bldg depreciation	43.22	37.13	24.50
Miscellaneous	6.84	6.25	6.45
Total overhead expenses per acre	132.27 307.51	172.62 365.15	109.73
Total dir & ovhd expenses per acre Net return per acre	184.94	165.77	328.81 118.94
	17.00	4.4.40	11.00
Government payments	17.30	14.42	14.29
Net return with govt pmts	202.24	180.19	133.23
Labor & management charge Net return over lbr & mgt	46.05 156.18	46.57 133.62	31.08 102.14
° °			
Cost of Production	40.00	<b>F</b> 4 00	04.05
Total direct expense per ton	49.29	54.02	61.85
Total dir & ovhd exp per ton	86.49	102.45	92.83
Less govt & other income	81.28	98.40	84.56
With labor & management	94.23	111.47	93.34
Net value per unit	138.16	148.96	122.17
Machinery cost per acre	168.41	215.12	189.96
Est. labor hours per acre	5.09	4.60	4.31

# Table 8. Crop Enterprise AnalysisAlfalfa Hay, Organic, on Cash Rent

	2008	2007	2006
Number of fields	35	24	18
Number of farms	20	16	17
Acres	59.59	80.80	67.83
Yield per acre (ton)	3.11	3.18	4.05
Operators share of yield %	100.00	100.00	100.00
Value per ton	142.21	139.15	115.69
Total product return per acre	442.77	442.76	468.99
Crop insurance per acre	1.53	-	-
Other crop income per acre	-	1.19	7.01
Gross return per acre	444.30	443.95	476.00
Direct Expenses			
Seed	2.18	7.01	2.37
Fertilizer	13.21	30.40	21.97
Non-chemical crop protect	-	1.28	3.63
Crop insurance	0.49	0.48	0.60
Storage	1.20	-	-
Fuel & oil	29.25	27.89	22.35
Repairs	34.15	31.53	25.64
Repair, machinery	2.29	1.96	4.41
Custom hire	53.72	39.53	112.30
Repair, buildings	0.61	0.26	0.61
Hired labor Land rent	0.15 81.29	67.72	8.06
	81.29	07.72	71.78 2.40
Machinery leases Hauling and trucking	13.85	7.06	2.40
Marketing	0.12	1.00	1.12
Organic certification	1.77	2.27	1.68
Operating interest	10.25	11.89	4.87
Miscellaneous	1.31	1.58	0.82
Total direct expenses per acre	245.82	230.85	284.60
Return over direct exp per acre	198.48	213.10	191.40
Overhead Expenses			
Custom hire	0.26	25.37	4.31
Hired labor	26.28	21.72	16.51
Machinery leases	0.47	1.67	1.85
Building leases	2.07	-	0.43
Farm insurance	3.82	9.53	4.85
Utilities	3.60	4.70	2.75
Dues & professional fees	1.06	2.70	1.35
Interest	8.89	5.36	5.04
Mach & bldg depreciation	27.48	32.16	22.51
	8.98	18.67	6.17
Total overhead expenses per acre Total dir & ovhd expenses per acre	82.91	121.88	65.76
Net return per acre	328.73 115.57	352.73 91.22	350.36 125.64
·			
Government payments	13.36	15.37	11.77
Net return with govt pmts	128.93	106.59	137.41 25.95
Labor & management charge Net return over lbr & mgt	42.78 86.15	33.23 73.36	25.95 111.46
Cost of Production			
Total direct expense per ton	78.95	72.55	70.21
Total direct expense per ton	105.58	110.85	86.43
Less govt & other income	100.80	105.65	81.80
With labor & management	114.54	116.09	88.20
-			
Net value per unit	142.21	139.15	115.69
Machinery cost per acre	154.29	164.20	198.97
Est. labor hours per acre	4.33	3.19	5.19

# Table 9. Crop Enterprise AnalysisBarley, Organic, on Owned Land

	2008	2007	2006
Number of fields	10	8	8
Number of farms	8	7	8
Acres	71.79	49.21	55.73
Yield per acre (bu.)	47.64	35.04	39.71
Operators share of yield %	100.00	100.00	100.00
Value per bu.	6.63	6.14	4.84
Total product return per acre	315.72	215.25	192.38
Crop insurance per acre	1.69	-	-
Other crop income per acre	5.04	38.36	10.80
Gross return per acre	322.45	253.60	203.18
Direct Expenses Seed Fertilizer Crop insurance Fuel & oil Repairs Repair, machinery Custom hire Repair, buildings Hauling and trucking Organic certification Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 26.31\\ 24.81\\ 7.10\\ 31.82\\ 29.36\\ 0.58\\ 1.11\\ 0.66\\ 1.52\\ 4.57\\ 3.88\\ 8.13\\ 139.85\\ 182.60\\ \end{array}$	$\begin{array}{c} 22.38\\ 13.21\\ 5.54\\ 14.13\\ 19.01\\ 1.50\\ 1.47\\ 0.12\\ 0.73\\ 2.77\\ 6.88\\ 0.28\\ 88.01\\ 165.59\end{array}$	11.03 3.75 4.14 20.19 18.18 1.94 1.07 0.59 1.55 11.40 73.85 129.33
Overhead Expenses Custom hire Hired labor RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 0.43\\ 9.74\\ 8.15\\ 5.43\\ 3.59\\ 2.94\\ 24.09\\ 29.79\\ 0.54\\ 84.71\\ 224.55\\ 97.89\end{array}$	$\begin{array}{c} 8.57\\ 7.39\\ 7.25\\ 4.05\\ 3.82\\ 3.06\\ 22.75\\ 36.59\\ 3.34\\ 96.83\\ 184.84\\ 68.76\end{array}$	$\begin{array}{c} 2.17\\ 8.42\\ 10.12\\ 5.02\\ 4.96\\ 2.77\\ 26.44\\ 20.29\\ 11.40\\ 91.59\\ 165.44\\ 37.74\end{array}$
Government payments	14.60	12.36	18.19
Net return with govt pmts	112.49	81.12	55.94
Labor & management charge	42.35	39.25	31.06
Net return over lbr & mgt	70.14	41.87	24.87
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.94 4.71 4.27 5.16	2.51 5.27 3.83 4.95	1.86 4.17 3.44 4.22
Net value per unit	6.63	6.14	4.84
Machinery cost per acre	94.52	82.57	67.26
Est. labor hours per acre	2.86	3.74	3.93

# Table 10. Crop Enterprise AnalysisBarley, Organic, on Cash Rent

	2008	2007
Number of fields	11	9
Number of farms	11	8
Acres	56.06	78.93
Yield per acre (bu.)	47.72	30.08
Operators share of yield %	100.00	100.00
Value per bu.	8.36	6.81
Total product return per acre	399.09	204.88
Crop insurance per acre	16.22	-
LDP income per acre	0.89	-
Other crop income per acre	2.27	17.22
Gross return per acre	418.47	222.10
Direct Expenses	00.44	00.40
Seed	20.14	20.18
Fertilizer	24.22 5.60	24.08 6.62
Crop insurance Fuel & oil	16.23	20.80
Repairs	30.11	20.80
Repair, machinery	0.84	0.84
Custom hire	8.60	3.04
Repair, buildings	0.96	0.56
Hired labor	1.11	-
Land rent	49.94	60.66
Utilities	1.45	-
Hauling and trucking	1.81	4.63
Marketing	1.08	-
Organic certification	2.23	1.55
Operating interest	5.73	5.52
Miscellaneous	6.16	1.06
Total direct expenses per acre	176.20	175.48
Return over direct exp per acre	242.27	46.62
Overhead Expenses		
Custom hire	1.48	3.35
Hired labor	7.05	7.31
Machinery leases	0.11	0.89
Building leases	-	-
Farm insurance	3.46	3.58
Utilities	2.96	3.57
Dues & professional fees Interest	1.27	3.82
	6.31 44.13	3.35 17.32
Mach & bldg depreciation Miscellaneous	44.13	3.36
Total overhead expenses per acre	71.47	46.56
Total dir & ovhd expenses per acre	247.67	222.04
Net return per acre	170.80	0.05
Government payments	8.76	12.04
Net return with govt pmts	179.56	12.10
Labor & management charge	32.38	33.18
Net return over lbr & mgt	147.18	-21.08
Cost of Production		
Total direct expense per bu.	3.69	5.83
Total dir & ovhd exp per bu.	5.19	7.38
Less govt & other income	4.60	6.41
With labor & management	5.28	7.51
Net value per unit	8.38	6.81
Machinery cost per acre	104.98	74.93
Est. labor hours per acre	2.70	2.99

# Table 11. Crop Enterprise AnalysisCorn, Organic, on Owned Land

	2008	2007	2006
Number of fields	33	20	17
Number of farms	21	16	15
Acres	25.96	40.10	41.82
Yield per acre (bu.)	106.21	98.50	93.68
Operators share of yield %	100.00	100.00	100.00
Value per bu.	8.60	8.88	5.51
Other product return per acre	-	6.35	7.11
Total product return per acre	913.62	880.66	523.48
Crop insurance per acre	35.83	-	-
Other crop income per acre	2.97	47.89	33.76
Gross return per acre	952.42	928.55	557.23
Direct Expenses			
Seed	58.24	38.96	39.69
Fertilizer	86.23	45.79	24.07
Non-chemical crop protect	4.29 26.17	1.26 16.99	14.44 5.80
Crop insurance Drying expense	11.56	2.78	2.73
Irrigation energy	0.54	-	2.15
Fuel & oil	41.46	34.54	41.24
Repairs	43.41	23.68	40.66
Repair, machinery	2.85	4.48	4.00
Custom hire	8.68	3.70	0.04
Repair, buildings	1.08	0.17	0.48
Hired labor	0.32	-	6.61
Machinery leases	-	0.49	2.63
Hauling and trucking	0.12	0.30	1.35
Marketing Organia cartification	0.53 1.00	2.59	- 1.51
Organic certification Operating interest	12.59	5.73	12.77
Miscellaneous	0.97	1.30	0.57
Total direct expenses per acre	300.04	182.77	198.59
Return over direct exp per acre	652.38	745.78	358.64
Overhead Expenses			
Repair, machinery	-	1.49	-
Custom hire	0.21	8.43	7.46
Hired labor	34.46	14.67	12.67
Machinery leases	0.63	4.19	1.39
Building leases	5.85	- 13.70	0.73 11.58
RE & pers. property taxes Farm insurance	13.19 5.76	9.03	8.31
Utilities	4.97	5.62	6.10
Dues & professional fees	6.47	7.11	3.65
Interest	76.92	60.57	55.73
Mach & bldg depreciation	39.64	29.33	42.51
Miscellaneous	8.92	6.01	5.80
Total overhead expenses per acre	197.02	160.15	155.94
Total dir & ovhd expenses per acre	497.06	342.92	354.53
Net return per acre	455.36	585.63	202.70
Government payments	20.64	22.31	29.12
Net return with govt pmts	476.00	607.94	231.82
Labor & management charge	52.58	42.71	52.72
Net return over Ibr & mgt	423.42	565.22	179.10
Cost of Production	0.00	4.00	0.46
Total direct expense per bu.	2.82	1.86	2.12
Total dir & ovhd exp per bu.	4.68	3.48	3.78
Less govt & other income With labor & management	4.12 4.62	2.70 3.14	3.04 3.60
-	4.02	3.14	
Net value per unit	8.60	8.88	5.51
Machinery cost per acre	143.12	115.25	144.02
Est. labor hours per acre	7.24	5.39	4.82

# Table 12. Crop Enterprise AnalysisCorn, Organic, on Cash Rent

	2008	2007	2006
Number of fields Number of farms	23 22	25 20	18 15
Acres	44.77	73.35	43.93
Yield per acre (bu.)	103.26	77.04	85.94
Operators share of yield %	100.00	100.00	100.00
Value per bu.	9.43	8.09	5.29
Other product return per acre	-	3.83 627.00	1.14
Total product return per acre Crop insurance per acre	973.48 41.70	027.00	455.72
Other crop income per acre	13.58	63.25	17.89
Gross return per acre	1,028.77	690.25	473.61
Direct Expenses	50.04	10.04	00.40
Seed	52.84	48.34	38.46
Fertilizer Crop shamiasla	54.45 6.38	48.52	42.73
Crop chemicals Non-chemical crop protect	6.98	4.30	2.14
Crop insurance	17.38	14.94	7.84
Drying expense	5.16	1.37	1.97
Fuel & oil	32.30	27.45	25.86
Repairs	28.04	23.49	32.31
Repair, machinery	6.38	5.97	9.07
Custom hire	22.71	25.08	3.48
Repair, buildings	0.99	1.12	0.36
Hired labor	10.16	-	-
Land rent	89.02	96.31	64.43
Machinery leases	-	0.09	0.59
Utilities	1.83	-	-
Hauling and trucking	1.04	3.17	0.24
Marketing Organic certification	1.04	0.02 2.94	2.33
Operating interest	9.26	12.16	8.03
Miscellaneous	1.61	1.39	0.24
Total direct expenses per acre	347.70	316.66	240.06
Return over direct exp per acre	681.07	373.59	233.54
Overhead Expenses			
Repair, machinery	-	2.80	-
Custom hire	0.12 16.22	12.70	2.52
Hired labor Machinery leases	0.96	12.06 6.02	24.95 1.12
Building leases	0.30	0.02	2.88
Farm insurance	5.37	7.34	5.98
Utilities	6.70	5.28	3.74
Dues & professional fees	3.16	5.15	2.67
Interest	6.97	8.71	6.98
Mach & bldg depreciation	28.52	29.28	29.64
Miscellaneous	11.52	13.53	4.70
Total overhead expenses per acre	79.72	102.89	85.17
Total dir & ovhd expenses per acre	427.41	419.54	325.24
Net return per acre	601.35	270.71	148.37
Government payments	16.71	18.40	26.27
Net return with govt pmts	618.07	289.10	174.64
Labor & management charge	45.64	40.30	34.40
Net return over lbr & mgt	572.43	248.80	140.24
Cost of Production			
Total direct expense per bu.	3.37	4.11	2.79
Total dir & ovhd exp per bu.	4.14	5.45	3.78
Less govt & other income	3.44	4.34	3.26
With labor & management	3.88	4.86	3.66
Net value per unit	9.43	8.09	5.29
Machinery cost per acre	123.05	140.53	108.84
Est. labor hours per acre	4.75	4.06	4.99

# Table 13. Crop Enterprise AnalysisCorn Silage, Organic, on Owned Land

	2008	2007	2006
Number of fields	15	14	9
Number of farms	12	12	8
Acres	21.44	25.16	28.72
Yield per acre (ton)	15.01	12.25	14.09
Operators share of yield %	100.00	100.00	100.00
Value per ton	45.42	36.22	30.87
Other product return per acre	-	-	12.07
Total product return per acre	681.97 13.21	443.67	447.13
Crop insurance per acre Other crop income per acre	0.28	50.31	-
Gross return per acre	695.46	493.97	447.13
Direct Expenses Seed	54.42	45.08	41.28
Fertilizer	59.92	29.19	23.64
Non-chemical crop protect	0.23	0.11	2.22
Crop insurance	10.96	9.39	3.23
Storage	5.66	2.41	-
Irrigation energy	1.54	1.46	-
Fuel & oil	45.77	33.36	33.17
Repairs	55.26 2.56	52.39	35.95 13.17
Repair, machinery Custom hire	2.56	8.40 23.20	23.41
Repair, buildings	-	1.75	1.18
Hired labor	0.76	-	-
Machinery leases	-	-	1.94
Marketing	-	-	2.51
Organic certification	2.31	0.95	0.71
Operating interest	5.93	2.85	4.95
Miscellaneous	4.45	3.38	-
Total direct expenses per acre Return over direct exp per acre	274.07 421.39	213.93 280.04	187.37 259.77
Overhead European			
Overhead Expenses Repair, machinery		10.61	_
Custom hire	0.00	9.13	0.11
Hired labor	19.83	33.61	29.28
Machinery leases	0.88	5.02	4.48
Building leases	15.37	-	2.38
RE & pers. property taxes	9.15	9.27	8.69
Farm insurance	4.85	7.19	7.78
Utilities	3.95	5.05	4.00
Dues & professional fees Interest	2.68 31.04	3.06 37.64	1.68 23.21
Mach & bldg depreciation	42.29	34.82	31.96
Miscellaneous	10.07	6.43	5.59
Total overhead expenses per acre	140.12	161.84	119.14
Total dir & ovhd expenses per acre	414.19	375.77	306.51
Net return per acre	281.28	118.21	140.63
Government payments	60.62	13.34	29.21
Net return with govt pmts	341.89	131.55	169.84
Labor & management charge	41.68	47.72	29.20
Net return over lbr & mgt	300.21	83.83	140.64
Cost of Production			
Total direct expense per ton	18.25	17.46	13.29
Total dir & ovhd exp per ton	27.59	30.68	21.75
Less govt & other income	22.65 25.43	25.48	18.82
With labor & management	20.40	29.38	20.89
Net value per unit	45.42	36.22	30.87
Machinery cost per acre	180.37	188.34	150.43
Est. labor hours per acre	5.77	6.38	5.36

# Table 14. Crop Enterprise AnalysisCorn Silage, Organic, on Cash Rent

	2008	2007	2006
Number of fields	13	5	10
Number of farms	12	5	9
Acres	36.95	15.40	16.70
Yield per acre (ton)	11.09	13.40	15.64
Operators share of yield %	100.00	100.00	100.00
Value per ton	44.04	32.29	27.21
Other product return per acre	-	-	14.01
Total product return per acre	488.40	438.20	439.48
Crop insurance per acre	13.44	-	-
LDP income per acre	3.53	-	-
Other crop income per acre	-	9.55	-
Gross return per acre	505.37	447.74	439.48
Direct Expenses			
Seed	44.42	37.43	42.87
Fertilizer	28.50	26.93	29.44
Crop chemicals	1.48	4.81	-
Non-chemical crop protect	7.42	0.92	4.73
Crop insurance	6.63	4.74	2.46
Storage	2.34	-	-
Fuel & oil	36.33	38.77	31.20
Repairs	42.23	53.91	36.66
Repair, machinery	1.12	15.60	6.98
Custom hire	25.25	9.07	55.87
Repair, buildings	0.32 56.56	0.27	1.42 81.09
Land rent Machinery leases	50.50	95.36	1.94
Organic certification	0.57	1.44	1.94
Operating interest	4.60	2.23	6.32
Miscellaneous	3.67	5.47	-
Total direct expenses per acre	261.44	296.94	302.61
Return over direct exp per acre	243.93	150.80	136.87
Overhead Expenses			
Custom hire	3.27	6.82	1.28
Hired labor	17.71	24.95	30.30
Machinery leases	0.54	-	2.16
Building leases	-	3.97	-
Farm insurance	2.85	5.61	6.39
Utilities	3.27	4.47	4.11
Dues & professional fees	3.19	5.56	3.40
Interest	9.16	15.41	11.27
Mach & bldg depreciation	32.56	40.20	29.95
Miscellaneous	7.99	4.52	7.69
Total overhead expenses per acre	80.55	111.49	96.56
Total dir & ovhd expenses per acre	342.00	408.44	399.17
Net return per acre	163.37	39.31	40.32
Government payments	5.94	5.48	28.67
Net return with govt pmts	169.31	44.79	68.98
Labor & management charge	34.85	62.25	33.08
Net return over lbr & mgt	134.46	-17.46	35.90
Cost of Production			
Total direct expense per ton	23.58	21.88	19.35
Total dir & ovhd exp per ton	30.84	30.10	25.53
Less govt & other income	28.77	28.99	22.80
With labor & management	31.92	33.58	24.91
Net value per unit	44.36	32.29	27.21
Machinery cost per acre	148.01	175.78	173.63
Est. labor hours per acre	5.25	10.69	6.36

# Table 15. Crop Enterprise AnalysisOats, Organic, on Owned Land

	2008	2007	2006
Number of fields Number of farms	10 10	9 7	7 7
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre LDP income per acre Other crop income per acre Gross return per acre	$\begin{array}{c} 25.37\\ 67.94\\ 100.00\\ 5.10\\ 2.84\\ 349.62\\ 3.08\\ 44.18\\ 396.88\end{array}$	42.62 82.11 100.00 4.17 5.63 348.17 31.68 379.85	51.29 46.04 100.00 3.23 148.59 15.06 163.64
Direct Expenses Seed Fertilizer Crop insurance Irrigation energy Fuel & oil Repairs Repair, machinery Custom hire Repair, buildings Hired labor Machinery leases Hauling and trucking Organic certification Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$     \begin{array}{r}       19.40 \\       8.53 \\       1.77 \\       0.69 \\       21.26 \\       16.59 \\       14.05 \\       17.41 \\       11.57 \\       \hline       1.13 \\       1.24 \\       2.51 \\       0.13 \\       116.27 \\       280.61 \\     \end{array} $	13.29 13.09 7.10 22.90 9.46 9.11 22.11 3.30 - 2.27 2.55 3.73 0.52 109.42 270.44	9.74 18.47 11.14 20.72 18.81 2.59 0.60 12.20 3.64 2.49 2.38 10.47 0.82 114.07 49.57
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 0.92 \\ 7.89 \\ 4.45 \\ 14.37 \\ 6.89 \\ 6.32 \\ 3.39 \\ 46.47 \\ 38.71 \\ 4.60 \\ 134.01 \\ 250.28 \\ 146.60 \end{array}$	$\begin{array}{r} 4.95\\ 13.50\\ 7.25\\ 13.99\\ 6.09\\ 4.82\\ 5.10\\ 51.64\\ 30.67\\ 7.27\\ 145.29\\ 254.71\\ 125.15\end{array}$	$\begin{array}{c} 6.05\\ 0.40\\ 0.05\\ 5.39\\ 3.83\\ 4.04\\ 2.10\\ 30.41\\ 21.85\\ 3.41\\ 77.53\\ 191.60\\ -27.95\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	12.04 158.64 22.35 136.29	16.67 141.82 38.74 103.08	18.88 -9.08 23.31 -32.38
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	1.71 3.68 2.77 3.10	1.33 3.10 2.44 2.92	2.48 4.16 3.42 3.93
Net value per unit Machinery cost per acre Est. labor hours per acre	5.15 117.11 2.70	4.17 113.61 3.52	3.23 74.54 2.10

## Table 16. Crop Enterprise AnalysisOats, Organic, on Cash Rent

	2008	2007	2006
Number of fields Number of farms	13 13	7 5	13 12
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	40.52 57.71 100.00 4.73 273.23 2.41 24.96 300.60	79.83 71.89 100.00 5.04 11.77 373.79 - 4.03 377.81	87.78 38.26 100.00 3.03 116.10 7.55 123.65
Direct Expenses Seed Fertilizer Non-chemical crop protect Crop insurance Fuel & oil Repairs Repair. machinery Custom hire Repair, buildings Hired labor Land rent Machinerv leases Hauling and trucking Organic certification Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	16.74 5.69 1.92 19.90 20.54 1.84 11.18 1.54 0.26 48.18 0.14 0.76 4.41 2.81 135.93 164.68	15.96 42.25 6.45 18.86 16.20 2.60 21.66 0.08 61.10 - 2.89 10.10 0.39 198.55 179.27	11.76 23.05 2.78 6.45 18.64 20.71 1.36 10.73 47.01 3.20 2.19 1.86 11.53 0.61 161.87 -38.22
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.889.671.472.992.602.324.7329.462.1957.32193.24107.36	22.09 12.97 0.16 6.20 2.47 2.75 5.44 27.43 7.65 87.15 285.70 92.11	$\begin{array}{c} 6.91 \\ 4.02 \\ 0.33 \\ 3.67 \\ 2.87 \\ 3.66 \\ 4.91 \\ 20.73 \\ 3.56 \\ 50.65 \\ 212.52 \\ -88.88 \end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	10.41 117.77 25.21 92.56	16.65 108.76 14.10 94.66	20.10 -68.77 27.33 -96.10
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	2.36 3.35 2.69 3.13	2.76 3.97 3.52 3.72	4.23 5.56 4.83 5.55
Net value per unit Machinery cost per acre Est. labor hours per acre	4.73 88.92 2.09	5.04 113.08 2.09	3.03 73.54 2.16

## Table 17. Crop Enterprise AnalysisSoybeans, Organic, on Owned Land

	2008	2007	2006
Number of fields Number of farms	14 11	17 16	14 14
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	54.46 14.98 100.00 19.39 - 290.40 74.21 - 364.61	76.58 23.01 100.00 19.63 1.63 453.26 20.08 473.34	77.99 13.76 100.00 14.37 197.77 38.16 235.93
Direct Expenses Seed Fertilizer Non-chemical crop protect Crop insurance Fuel & oil Repairs Repair. machinery Custom hire Repair, buildings Hired labor Machinery leases Hauling and trucking Organic certification Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 30.54 \\ 15.08 \\ 2.83 \\ 17.09 \\ 27.21 \\ 31.38 \\ 1.64 \\ 3.05 \\ 1.16 \\ 0.52 \\ 6.10 \\ 0.51 \\ 2.56 \\ 7.70 \\ 0.50 \\ 147.86 \\ 216.74 \end{array}$	$\begin{array}{c} 35.19 \\ 4.48 \\ 2.99 \\ 10.98 \\ 21.11 \\ 18.70 \\ 2.85 \\ 2.74 \\ 0.57 \\ 1.16 \\ 3.33 \\ 1.86 \\ 1.84 \\ 3.63 \\ 0.36 \\ 111.79 \\ 361.56 \end{array}$	29.09 8.46 10.74 10.38 19.35 25.21 0.61 2.97 7.17 1.26 0.71 1.46 8.85 0.29 126.55 109.39
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 1.38\\ 14.17\\ 0.46\\ 10.37\\ 4.61\\ 3.67\\ 4.02\\ 63.69\\ 29.89\\ 6.37\\ 138.63\\ 286.49\\ 78.12\end{array}$	$\begin{array}{c} 4.21\\ 10.71\\ 1.36\\ 11.47\\ 4.34\\ 4.40\\ 3.90\\ 57.42\\ 30.25\\ 6.46\\ 134.53\\ 246.32\\ 227.03\end{array}$	$\begin{array}{c} 2.94\\ 9.79\\ 0.79\\ 9.03\\ 3.59\\ 3.52\\ 1.80\\ 29.16\\ 23.64\\ 4.45\\ 88.70\\ 215.25\\ 20.68\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	17.57 95.69 41.50 54.19	19.45 246.47 35.82 210.65	19.98 40.66 30.18 10.49
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	9.87 19.13 13.00 15.77	4.86 10.71 8.92 10.47	9.19 15.64 11.41 13.61
Net value per unit Machinery cost per acre Est. labor hours per acre	19.39 103.65 4.47	19.63 87.88 3.34	14.37 77.31 2.72

## Table 18. Crop Enterprise AnalysisSoybeans, Organic, on Cash Rent

	2008	2007	2006
Number of fields Number of farms	23 17	23 19	35 18
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	72.18 18.27 100.00 22.84 10.92 428.36 51.74 57.71 537.82	68.50 19.29 100.00 19.06 0.52 368.14 	105.89 14.13 100.00 14.63 206.76 55.68 262.43
Direct Expenses Seed Fertilizer Non-chemical crop protect Crop insurance Irrigation energy Fuel & oil Repairs Repair, machinery Custom hire Repair, buildings Hired labor Land rent Machinery leases Hauling and trucking Organic certification Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	40.28 16.44 6.19 18.36 22.29 19.48 7.71 25.95 3.32 16.52 95.47 0.70 3.24 9.46 3.47 288.89 248.93	$\begin{array}{c} 31.07\\ 4.49\\ 1.96\\ 12.70\\ 0.94\\ 19.25\\ 18.61\\ 4.81\\ 9.48\\ 0.18\\ 6.41\\ 85.96\\ \\ \\ 2.67\\ 2.26\\ 6.14\\ 1.33\\ 208.27\\ 180.27\\ \end{array}$	$\begin{array}{c} 32.67\\ 15.85\\ 5.54\\ 15.99\\ 21.45\\ 22.44\\ 0.89\\ 4.22\\ 0.01\\ 20.16\\ 60.15\\ 3.40\\ 2.33\\ 1.32\\ 11.03\\ 0.74\\ 218.19\\ 44.24\end{array}$
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 0.36 \\ 10.61 \\ 1.50 \\ 5.75 \\ 5.53 \\ 3.58 \\ 8.77 \\ 22.21 \\ 7.43 \\ 65.75 \\ 354.64 \\ 183.18 \end{array}$	$\begin{array}{r} 4.26\\ 6.16\\ 3.63\\ 4.45\\ 3.41\\ 4.24\\ 5.42\\ 21.78\\ 8.19\\ 61.54\\ 269.81\\ 118.73\end{array}$	$\begin{array}{r} 8.30 \\ 5.77 \\ 0.27 \\ 3.41 \\ 3.06 \\ 5.28 \\ 4.06 \\ 21.33 \\ 3.75 \\ 55.23 \\ 273.42 \\ -10.99 \end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	14.47 197.65 37.10 160.55	11.77 130.50 35.75 94.75	20.06 9.07 28.90 -19.83
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	15.81 19.41 12.03 14.06	10.80 13.99 12.29 14.15	15.44 19.35 13.99 16.04
Net value per unit Machinery cost per acre Est. labor hours per acre	22.84 107.10 3.04	19.06 85.59 2.91	14.63 82.51 2.27

## Table 19. Crop Enterprise AnalysisSpring Wheat, Organic, on Owned Land

	2008	2006
Number of fields Number of farms	10 7	7 7
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Other crop income per acre Gross return per acre	54.48 37.17 100.00 13.88 516.08	81.30 28.46 100.00 6.70 190.79 18.99 209.78
Direct Expenses Seed Fertilizer Crop insurance Drying expense Fuel & oil Repairs Custom hire Hired labor Hauling and trucking Organic certification Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	41.08 46.64 21.99 32.12 26.64 0.61 2.14 2.07 6.49 1.81 181.59 334.49	16.69 24.94 3.35 0.16 24.86 25.00 6.32 4.74 0.72 4.59 - 111.38 98.40
Overhead Expenses Custom hire Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 0.41 \\ 17.82 \\ 0.10 \\ 11.41 \\ 5.81 \\ 3.93 \\ 3.24 \\ 36.23 \\ 23.37 \\ 4.73 \\ 107.03 \\ 288.63 \\ 227.45 \end{array}$	$\begin{array}{c} 2.59\\ 11.05\\ 0.85\\ 10.35\\ 4.61\\ 3.76\\ 3.60\\ 25.90\\ 17.48\\ 3.39\\ 83.58\\ 194.96\\ 14.82\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	12.91 240.36 35.97 204.39	12.10 26.92 30.03 -3.11
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management	4.89 7.76 7.42 8.39	3.91 6.85 5.76 6.81
Net value per unit Machinery cost per acre Est. labor hours per acre	13.88 88.37 3.57	6.70 79.63 3.30

## Table 20. Crop Enterprise AnalysisSpring Wheat, Organic, on Cash Rent

	2008	2007	2006
Number of fields Number of farms	8 7	9 6	7 5
Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre	93.84 43.84 100.00 15.04 - 659.33 5.44 17.05 681.82	123.37 28.16 100.00 13.99 394.07 7.28 401.36	151.71 23.82 100.00 6.49 2.12 156.64 - 43.29 199.93
Direct Expenses Seed Fertilizer Crop chemicals Non-chemical crop protect Crop insurance Drying expense Fuel & oil Repairs Repair, machinery Custom hire Repair, machinery Custom hire Repair, buildings Land rent Hauling and trucking Marketing Organic certification Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 47.51\\ 47.43\\ 2.02\\ \\21.95\\ 2.05\\ 22.64\\ 37.15\\ 4.46\\ 11.93\\ 3.51\\ 80.23\\ 1.61\\ 0.57\\ 1.57\\ 7.88\\ 2.32\\ 294.82\\ 387.00\\ \end{array}$	27.27 34.52 13.40 1.11 19.41 25.48 8.87 64.34 12.58 2.28 9.60 218.87 182.48	18.99 12.19 15.50 9.87 0.34 17.95 22.56 2.59 54.86 - 54.86 - 0.55 5.02 0.30 160.70 39.23
Overhead Expenses Custom hire Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	$\begin{array}{c} 0.58\\ 23.94\\ 1.65\\ 5.47\\ 6.50\\ 2.05\\ 3.63\\ 26.47\\ 2.57\\ 72.86\\ 367.68\\ 314.14\end{array}$	$\begin{array}{c} 12.95 \\ 15.76 \\ 0.07 \\ 5.05 \\ 4.32 \\ 2.66 \\ 3.04 \\ 21.65 \\ 5.62 \\ 71.13 \\ 290.00 \\ 111.35 \end{array}$	$\begin{array}{r} 4.22\\ 13.08\\ 3.54\\ 3.07\\ 3.53\\ 3.59\\ 2.37\\ 11.98\\ 1.78\\ 47.16\\ 207.86\\ -7.93\end{array}$
Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt	23.43 337.57 30.84 306.73	16.08 127.44 23.88 103.55	17.28 9.35 17.43 -8.08
<b>Cost of Production</b> Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management Net value per unit	6.72 8.39 7.34 8.04	7.77 10.30 9.47 10.32 13.99	6.75 8.73 6.09 6.83 6.49
Machinery cost per acre Est. labor hours per acre	107.70 3.61	91.07 2.34	64.22 2.21

## Table 21. Crop Enterprise AnalysisPasture, Organic, on Owned Land

	2008	2007	2006
Number of fields	26	13	13
Number of farms	15	9	11
Acres	51.10	68.53	67.80
Yield per acre (aum)	2.86	4.16	7.07
Operators share of yield %	100.00	100.00	100.00
Value per aum	42.23	32.79	14.84
Total product return per acre Other crop income per acre	120.99 7.28	136.50	104.99 0.98
Gross return per acre	128.27	136.50	105.97
	120.27	100.00	100.07
Direct Expenses Seed	9.02	2.04	1.10
Fertilizer	16.05	2.62	6.55
Irrigation energy	0.66	-	-
Fuel & oil	5.32	2.46	2.74
Repairs	5.42	2.48	3.74
Repair, machinery	0.71	0.82	0.63
Hired labor	1.92	-	-
Organic certification	0.81	0.89	0.31
Operating interest	1.04	0.06	1.04
Miscellaneous	1.41 42.35	0.19 11.56	0.08 16.20
Total direct expenses per acre Return over direct exp per acre	42.35 85.92	124.94	89.77
	00.02	124.04	00.11
Overhead Expenses	4.00	4.04	4.40
Hired labor	1.62	1.01	1.48
RE & pers. property taxes Farm insurance	10.51 0.69	7.96 0.62	9.15 0.73
Interest	24.11	15.47	20.28
Mach & bldg depreciation	4.99	3.77	4.90
Miscellaneous	1.78	1.53	1.71
Total overhead expenses per acre	43.70	30.36	38.23
Total dir & ovhd expenses per acre	86.05	41.92	54.43
Net return per acre	42.22	94.58	51.54
Government payments	1.49	5.90	8.37
Net return with govt pmts	43.71	100.48	59.91
Labor & management charge	6.47	3.69	5.01
Net return over Ibr & mgt	37.24	96.78	54.90
Cost of Production			
Total direct expense per aum	14.78	2.78	2.29
Total dir & ovhd exp per aum	30.04	10.07	7.69
Less govt & other income	26.98 29.23	8.65	6.37
With labor & management	29.23	9.54	7.08
Net value per unit	42.23	32.79	14.84
Machinery cost per acre	18.13	10.77	12.79
Est. labor hours per acre	0.89	0.48	0.69

## Table 22. Crop Enterprise AnalysisPasture, Organic, on Cash Rent

	2008	2007
Number of fields	11	6
Number of farms	9	5
Acres	52.05	85.63
Yield per acre (aum)	3.63	7.76
Operators share of yield %	100.00	100.00
Value per aum	59.38	30.15
Total product return per acre	215.65	233.98
Other crop income per acre	7.56	-
Gross return per acre	223.21	233.98
Direct Expenses Seed Fertilizer Fuel & oil Repairs Repair, machinery Land rent Utilities Organic certification Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre	$\begin{array}{c} 2.70\\ 6.99\\ 3.79\\ 2.90\\ 0.87\\ 50.53\\ 0.67\\ 0.51\\ 0.73\\ 0.60\\ 70.30\\ 152.91\end{array}$	1.92 10.71 2.46 0.33 1.30 100.44 - 0.90 0.03 0.02 118.11 115.88
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre	1.79 0.77 0.27 1.05 3.78 3.20 10.85 81.16 142.06	1.27 1.27 1.32 0.87 2.24 0.29 7.26 125.37 108.62
Government payments	3.13	7.49
Net return with govt pmts	145.18	116.11
Labor & management charge	2.11	7.62
Net return over lbr & mgt	143.07	108.49
<b>Cost of Production</b> Total direct expense per aum Total dir & ovhd exp per aum Less govt & other income With labor & management	19.36 22.35 19.40 19.99	15.22 16.15 15.19 16.17
Net value per unit	59.38	30.15
Machinery cost per acre	12.18	6.85
Est. labor hours per acre	0.38	0.83

### **INTRODUCTION TO THE DAIRY REPORTS**

The Livestock Enterprise Analysis (Tables 23-26) show the average physical production, gross returns, direct expenses, overhead expenses, and net returns per budget unit. For this group of organic producers, the only enterprises with sufficient numbers to summarize were dairy and dairy replacements. Two formats are included for dairy reports: historical reports comparing enterprise returns for years 2006 through 2008, and 2008 dairy results sorted into thirds by enterprise net return. For comparison, these same reports are included for conventional Minnesota dairies.

*Gross margin* is the accrual gross value produced by the enterprise net of the cost of purchased animals. It includes income from sale of offspring and livestock products, cull income, non-cash transfers to other enterprises, and the value of production used in the home or for feed. It also includes the value of inventory change from beginning to the end of the year. The cost of livestock purchased and the value of animals transferred in are deducted.

Net return is the amount contributed per cow of the enterprise toward operator labor, management, and equity capital.

*Net return over labor and management* is the return remaining after compensating the operator for unpaid labor and management. This is the per unit return to equity capital.

*The Cost of Production* section shows the average cost per unit sold in each cost category. *Total direct and overhead expense per unit* is the breakeven price needed to cover cash costs and depreciation. For grow/finish enterprises, this includes the purchase cost or transfer in value of the animal.

*With other revenue adjustments* is the breakeven price adjusted for cull sales, other offspring sales, the cost of replacement stock, and any other miscellaneous income. This assumes that some costs can be covered by these other income sources.

With labor and management is the final breakeven price to provide a labor and management return for the operator(s).

Other Information contains both economic and technical efficiency measures.

# Table 23. Livestock Enterprise AnalysisOrganic DairyAverage Per Cow

	20	2008 200		2007		06
Number of farms	;	30	2	23	2	22
Milk sold (hd) Milk used in home (hd) Milk fed to animals (hd) Dairy Calves sold (hd) Transferred out (hd) Cull sales (hd) Butchered (hd) Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Dairy repl net cost Gross margin	Quantity 12,228.8 17.8 382.6 0.2 0.7 0.2 0.0 0.1 0.3 0.1	Value 3,105.09 5.80 95.62 20.30 76.40 99.97 6.76 9.72 -88.40 -133.42 158.74 -332.87 3,023.72	Quantity 12,976.5 25.8 369.4 0.1 0.8 0.2 0.0 0.0 0.0 0.2 0.1	Value 3,171.95 5.79 85.24 22.99 150.91 105.28 4.81 18.67 -75.74 -342.67 107.05 3,254.28	Quantity 12,109.8 31.7 181.2 0.2 0.7 0.2 0.0 0.0 0.0 0.3 0.1	Value 2,681.93 6.96 32.70 46.64 148.88 80.53 4.63 64.85 -16.44 -352.11 103.43 2,802.01
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Haylage, Alfalfa (lb.) Pasture (aum) Other feed stuffs (lb) Supplies Fuel & oil Repairs Hired labor Marketing Total direct expenses Return over direct expense	6,387.7 651.2 29.6 7,827.5 3,531.0 1,321.8 2,386.2 7.6 2,431.5	169.83 95.16 215.02 121.21 240.79 79.78 78.72 126.06 175.70 276.98 73.75 77.35 47.06 27.53 1,804.94 1,218.79	1,115.4 401.4 39.7 6,151.8 3,263.1 2,571.2 3,064.6 7.9 2,724.3	182.76 87.07 304.55 97.40 193.89 132.07 86.78 142.29 173.40 276.72 57.35 86.10 1.93 33.86 1,856.16 1,398.12	777.6 108.5 31.7 4,495.0 4,497.4 2,077.4 1,768.7 4.1 1,280.5	145.97 24.45 153.46 64.50 213.13 71.74 53.70 125.84 89.05 292.17 55.21 76.06 29.08 1,394.37 1,407.65
Overhead Expenses Hired labor Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return Labor & management charge		175.23 25.97 68.06 98.43 106.59 69.86 544.14 2,349.07 674.65 262.96		195.06 35.18 68.56 100.02 94.30 90.08 583.21 2,439.37 814.91 273.42		236.31 36.24 59.27 88.05 93.38 72.86 586.11 1,980.48 821.54 253.25
Net return over lbr & mgt <b>Cost of Production Per Cwt. Of Milk</b> Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		411.70 14.29 18.60 20.05 22.13		541.49 13.88 18.24 18.31 20.35		568.28 11.32 16.07 15.42 17.47
Est. labor hours per unit Other Information Number of cows Milk produced per cow Total milk sold Pounds of milk sold per FTE Culling percentage Turnover rate Cow death loss percent Percent of barn capacity Feed cost per day Feed cost per cwt of milk Feed cost per cow Avg. milk price per cwt.		39.43 76.9 12,629 940,233 868,396 19.0 25.3 5.4 102.1 3.57 10.31 1,302.27 25.39		45.19 64.7 13,372 838,957 803,966 16.1 25.4 8.4 98.5 3.84 10.47 1,400.20 24.44		48.36 72.3 12,323 875,756 701,129 16.2 21.9 4.8 105.0 2.58 7.64 941.84 22.15

# Table 24. Livestock Enterprise AnalysisNon-Organic DairyAverage Per Cow

200	08	2007		2006	
47	72	55	4	5	37
Quantity 21,533.0 3.3 71.0 0.3 0.6 0.2 0.0	Value 4,164.77 0.62 11.60 32.73 49.05 148.15 2.28 -12.10 7.78 -111.19	Quantity 21,346.9 3.9 91.3 0.3 0.6 0.2 0.0	Value 3,963.33 0.86 12.59 38.86 136.40 141.60 2.36 - - 10.21 -88.86	Quantity 21,562.0 5.4 60.3 0.3 0.6 0.2 0.0 0.1	Value 2,852.49 0.80 6.47 58.77 121.87 142.52 2.61 - - 80.61 -100.18
0.3 0.1	-101.34 78.09 -391.52 3,878.92	0.3 1.9	-479.00 96.81 - 3,835.17	0.3 0.1	-439.41 100.78 2,827.33
3,069.4 1,706.9 58.8 15,978.9 3,202.9 4,880.5 1,772.3	$\begin{array}{c} 603.28\\ 227.90\\ 240.62\\ 240.87\\ 210.52\\ 130.86\\ 109.82\\ 115.11\\ 335.98\\ 104.42\\ 106.45\\ 107.80\\ 49.70\\ 43.58\\ 59.43\\ 2,686.34\\ 1,192.58\\ \end{array}$	3,127.1 1,322.4 61.3 15,344.8 3,073.5 6,679.4 1,659.8	$\begin{array}{c} 464.97\\ 176.00\\ 196.65\\ 199.72\\ 172.61\\ 133.95\\ 96.36\\ 115.77\\ 309.80\\ 78.58\\ 82.63\\ 14.28\\ 36.69\\ 49.95\\ 54.33\\ 2,182.29\\ 1,652.88\end{array}$	2,853.9 1,540.9 67.8 14,991.6 3,040.7 5,689.8 1,701.8	373.20 153.52 145.86 151.92 138.01 123.09 65.55 110.78 287.65 69.09 67.87 14.09 34.15 36.17 49.39 1,820.34 1,006.98
	239.94 54.49 114.60 133.19 146.82 689.04 3,375.37 503.54		294.71 71.37 128.14 133.75 160.23 788.20 2,970.49 864.68		267.71 68.18 119.48 119.39 136.75 711.51 2,531.85 295.47
	221.21 282.33		224.05 640.63		203.49 91.98
	12.43 15.62 17.00 18.02		10.18 13.85 14.51 15.56		8.42 11.71 11.86 12.80
	41.90		42.00		40.73
	145.2 21,607 3,126,985 1,439,001 24.5 32.8 7.9 108.3 4.83 8.16 1,763.87		131.6 21,442 2,808,616 1,423,254 24.2 33.0 8.3 108.8 3.95 6.72 1,440.26		126.8 21,628 2,733,794 1,482,326 24.8 32.6 7.2 107.8 3.15 5.32 1,151.15 13.23
	47 Quantity 21,533.0 3.3 71.0 0.3 0.6 0.2 0.0 0.1 0.3 0.1 0.3 0.1 3,069.4 1,706.9 58.8 15,978.9 3,202.9 4,880.5	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$

# Table 25. Livestock Enterprise AnalysisOrganic Dairy, 2008(Farms Sorted By Net Return Per Unit)

Average Per Cow

	Low 33%		33 - 6	56%	High 34%	
Number of farms		9		10	11	
Milk sold (hd) Milk used in home (hd) Milk fed to animals (hd) Dairy Calves sold (hd) Transferred out (hd) Cull sales (hd) Butchered (hd) Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Dairy repl net cost Gross margin	Quantity 11,606.5 4.4 512.0 0.1 0.7 0.3 0.0 0.0 0.0 0.3 0.0	Value 2,697.29 1.11 104.48 9.06 40.02 121.14 14.29 10.89 -58.31 -58.31 -8.49 18.40 -487.47 2,462.42	Quantity 10,920.5 11.0 400.4 0.2 0.7 0.1 0.0 0.0 0.0 0.3 0.1	Value 2,880.32 6.19 83.93 28.41 62.23 63.11 5.12 14.33 -9.33 -77.65 150.51 -345.86 2,861.32	Quantity 14,433.7 39.1 234.2 0.2 0.8 0.2 0.0 0.1 0.3 0.2	Value 3,778.77 9.93 101.18 21.43 129.33 124.17 1.39 2.96 -214.29 -323.86 306.31 -165.52 3,771.81
Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Corn, Ear (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Haylage, Alfalfa (lb.) Pasture (aum) Hay, Mixed, Organic (lb.) Other feed stuffs (lb) Supplies Fuel & oil Repairs Repair, livestock equip Hired labor Total direct expenses Return over direct expense	19,826.1 38.3 9,360.3 - 1,945.1 3,976.8 3,600.3 17.4 707.6 1,745.6	228.71 0.96 248.51 178.51 - 145.35 245.90 82.93 134.30 30.07 85.69 282.76 46.95 86.57 - 1,797.22 665.20	424.6 391.4 24.1 3,168.3 - 4,909.8 195.7 1,664.4 2.8 106.9 991.0	129.69 66.66 216.06 67.12 - 337.82 9.78 51.58 104.05 6.42 170.85 219.96 79.74 56.50 45.06 77.27 1,638.57 1,222.74	487.6 1,606.2 27.8 12,005.5 1,387.0 3,404.2 92.6 2,076.3 3.8 1,475.7 1,173.4	161.07 222.22 180.93 130.98 62.41 216.02 2.32 107.68 144.81 78.74 91.39 373.96 92.72 93.72 93.72 56.35 2,015.31 1,756.50
Overhead Expenses Hired labor Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		278.95 96.40 134.55 114.67 110.13 734.70 2,531.92 -69.50		187.33 53.60 95.55 112.28 91.97 540.72 2,179.29 682.03		58.84 57.91 66.54 91.73 86.52 361.54 2,376.86 1,394.96
Labor & management charge Net return over lbr & mgt		210.17 -279.67		200.51 481.52		390.82 1,004.13
<b>Cost of Production Per Cwt. Of Milk</b> Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		14.83 20.89 23.69 25.43		14.46 19.23 20.19 21.96		13.70 16.16 16.96 19.62
Est. labor hours per unit Other Information		39.64		37.28		41.85
Number of cows Milk produced per cow Total milk sold Pounds of milk sold per FTE Culling percentage Turnover rate Cow death loss percent Percent of barn capacity Feed cost per day Feed cost per cwt of milk Feed cost per cow Avg. milk price per cwt.		78.5 12,123 911,238 819,926 26.5 34.1 6.4 94.8 3.78 11.39 1,380.94 23.24		87.9 11,332 959,912 820,283 13.1 19.8 5.7 112.0 3.18 10.24 1,160.04 26.38		65.5 14,707 946,066 965,623 18.9 23.3 4.2 98.8 3.83 9.51 1,398.57 26.18

2008 Annual Report

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#### Table 26. Livestock Enterprise Analysis Organic Dairy Dairy Replacement Heifers -- Average Per Head

	200	8	2007	7	200	6
Number of farms	22	2	20	)	20	C
Replacements sold (hd) Transferred out (hd) Cull sales (hd) Butchered (hd) Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Gross margin	Quantity 0.2 0.4 - 0.0 0.0 0.8 0.1	Value 41.83 529.10 - 1.87 11.36 -4.60 -169.80 94.42 504.19	Quantity 0.2 0.3 0.0 0.0 0.0 0.7 0.1	Value 110.04 447.18 10.20 6.70 - 5.92 -150.43 118.00 535.77	Quantity 0.2 0.4 0.0 0.0 0.0 0.7 0.1	Value 65.13 423.28 0.79 1.84 - -20.91 -160.66 135.37 444.83
Direct Expenses Protein Vit Minerals (lb.) Milk (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Haylage, Alfalfa (lb.) Oatlage (lb.) Oats (bu.) Pasture (aum) Hay, Mixed, Organic (lb.) Other feed stuffs (lb) Veterinary Supplies Contract production exp. Fuel & oil Repairs Hired labor Bedding Total direct expenses Return over direct expense	1,610.4 189.7 302.6 2.0 2,488.6 1,263.0 752.2 463.9 1,133.9 3.8 4.1 176.8 375.4	$\begin{array}{c} 22.20\\ 42.85\\ 23.32\\ 17.24\\ 38.89\\ 73.52\\ 36.10\\ 20.19\\ 15.21\\ 7.37\\ 69.62\\ 5.30\\ 20.60\\ 3.90\\ 26.46\\ 32.58\\ 14.76\\ 17.74\\ 11.50\\ 10.91\\ 510.27\\ -6.08 \end{array}$	104.1 313.0 117.2 3.5 1,680.0 1,602.4 775.2 325.9 41.8 3.5 4.2 571.2 1,222.2	$\begin{array}{c} 35.99\\ 67.16\\ 34.14\\ 24.30\\ 29.73\\ 83.09\\ 32.68\\ 8.22\\ 0.59\\ 14.54\\ 40.51\\ 20.98\\ 36.85\\ 6.92\\ 21.43\\ 28.56\\ 7.49\\ 13.51\\ 0.18\\ 5.29\\ 512.18\\ 23.59\end{array}$	100.0 207.5 52.4 3.5 1,459.3 1,983.6 839.2 358.0 69.7 3.9 2.4 - 790.5	42.67 38.20 10.70 19.52 19.96 85.23 28.97 9.83 1.05 11.35 60.09 - 19.47 6.37 32.32 33.42 9.92 14.63 - 2.80 446.50 -1.67
Overhead Expenses Hired labor Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return Labor & management charge Net return over lbr & mgt		32.07 11.54 21.99 19.76 15.64 101.00 611.27 -107.08 51.89 -158.97		27.47 10.48 15.34 12.59 18.94 84.81 596.99 -61.22 42.35 -103.57		46.54 10.75 14.38 18.13 19.28 109.08 555.58 -110.75 44.34 -155.09
Cost of Production Per Head Per Day Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management Est. labor hours per unit		1.62 1.90 1.87 2.01 8.42		1.46 1.69 1.69 1.81 6.44		1.34 1.64 1.64 1.76 9.35
Other Information No. purchased or trans in Number sold or trans out Average number of head Percentage death loss Feed cost per average head Feed cost/head sold/trans Total cost/head sold/trans Feed cost per head per day Avg. purch price / head Avg. sales price / head		49 36 64 9.6 392.42 703.37 1,308.26 1.08 1,083.33 252.78		49 33 65 12.6 428.80 836.87 1,289.63 1.17 1,275.00 528.50		47 35 65 11.3 347.04 643.72 1,193.63 0.95 1,800.00 373.73

#### Table 27. Livestock Enterprise Analysis Non-Organic Dairy Dairy Replacement Heifers -- Average Per Head

	2008		2007		2006	
Number of farms	42	1	478	3	45	5
Replacements sold (hd) Transferred out (hd) Cull sales (hd) Butchered (hd) Other income Purchased (hd) Transferred in (hd) Inventory change (hd) Gross margin	Quantity 0.1 0.4 0.0 0.0 0.0 0.6 0.1	Value 41.69 576.58 4.50 1.15 2.46 -27.09 -130.51 76.73 545.51	Quantity 0.1 0.4 0.0 0.0 0.0 0.6 0.1	Value 54.55 591.96 4.88 1.63 14.03 -61.63 -147.78 91.61 549.23	Quantity 0.2 0.4 0.0 0.0 0.0 0.6 0.1	Value 64.03 537.19 5.83 1.77 11.11 -42.86 -131.66 57.52 502.93
Direct Expenses Protein Vit Minerals (lb.) Milk Replacer (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Haylage, Alfalfa (lb.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Contract production exp. Fuel & oil Repairs Hired labor Bedding Total direct expenses Return over direct expense	1,185.3 10.8 284.1 7.2 4,995.6 1,245.8 585.7 804.7 943.9	$\begin{array}{c} 62.79\\ 14.40\\ 37.89\\ 29.00\\ 74.89\\ 74.17\\ 22.66\\ 20.07\\ 36.58\\ 12.43\\ 15.46\\ 24.42\\ 93.88\\ 17.46\\ 18.21\\ 8.88\\ 13.04\\ 576.22\\ -30.70\\ \end{array}$	446.0 13.6 238.0 7.2 5,369.9 1,225.1 653.3 886.6 866.5	$\begin{array}{c} 53.66\\ 16.67\\ 28.17\\ 24.25\\ 59.11\\ 60.48\\ 22.03\\ 20.64\\ 28.70\\ 10.74\\ 13.64\\ 24.71\\ 81.50\\ 13.06\\ 12.78\\ 0.50\\ 10.83\\ 481.47\\ 67.77\end{array}$	820.6 14.8 891.4 9.6 4,966.5 1,167.4 689.7 1,158.0 863.9	49.26 15.76 23.73 20.27 48.89 46.49 18.85 23.79 22.66 8.66 14.85 25.59 57.81 12.01 11.02 0.76 9.66 410.06 92.87
Overhead Expenses Hired labor Building leases Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return		40.30 6.41 5.84 9.60 19.16 22.86 11.40 115.56 691.77 -146.26		45.79 5.34 5.71 11.84 21.48 24.48 15.08 129.72 611.19 -61.96		42.17 5.00 5.74 11.89 19.89 22.19 13.64 120.51 530.57 -27.64
Labor & management charge Net return over lbr & mgt		39.36 -185.62		37.39 -99.35		37.15 -64.79
<b>Cost of Production Per Head Per Day</b> Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management		1.78 2.10 2.09 2.20		1.62 1.98 1.94 2.04		1.42 1.75 1.72 1.82
Est. labor hours per unit Other Information		7.19		6.94		7.14
No. purchased or trans in Number sold or trans out Average number of head Percentage death loss Feed cost per average head Feed cost/head sold/trans Total cost/head sold/trans Feed cost per head per day Avg. purchase weight Avg. purch price / head Avg. wgt / Replacements sold Avg. sales price / head		76 62 120 9.9 372.45 718.56 1,550.92 1.02 1,457.62 12 423.86		80 62 116 9.6 313.71 588.33 1,398.78 0.86 - 1,315.82 506.98		74 62 108 8.5 269.70 470.29 1,161.34 0.74 4 1,020.51 - 419.43

### MAKING SENSE OF FARM FINANCIAL RATIOS AND GUIDELINES<sup>2</sup>

Use with Table 28 and the Farm Finance Scorecard inside and outside the back cover

#### LIQUIDITY

 is the ability of your farm business to meet financial obligations as they come due – to generate enough cash to pay your family living expenses and taxes, and make debt payments on time.

#### 1. Current ratio

- measures the extent to which current farm assets, if sold tomorrow, would pay off current farm liabilities.

#### 2. Working capital

- tells us the operating capital available in the short term from within the business.

#### 3. Working capital to gross revenues

- measures operating capital available against the size of the business

#### 4. Farm debt-to-asset ratio

- is the bank's share of the business. It compares total farm debt to total farm assets. A higher ratio is an indicator of greater financial risk and lower borrowing capacity.

#### 5. Farm equity-to-asset ratio

- is your share of the business. It compares farm equity to total farm assets. If you add the debt-to-asset ratio and the equity-to-asset ratio you must get 100%.

#### 6. Farm debt-to-equity ratio

- compares the bank's ownership to your ownership. It also indicates how much the owners have leveraged (i.e., multiplied) their equity in the business.

#### SOLVENCY

- is the ability of your business to pay all its debts if it were sold tomorrow. Solvency is important in evaluating the financial risk and borrowing capacity of the business.

#### PROFITABILITY

- is the difference between the value of goods produced and the cost of the resources used in their production.

#### 7. Net farm income

- represents return to 3 things: Your labor; Your management, and Your equity that you have invested in the business. It is the reward for investing your unpaid family labor, management and money in the business instead of elsewhere. Anything left in the business, i.e., not taken out for family living and taxes, will increase your farm net worth.

#### 8. Rate of return on farm assets

- can be thought of as the average interest rate being earned on all (yours and creditors') investments in the farm. Unpaid labor and management are assigned a return before return on farm assets is calculated.

#### 9. Rate of return on farm equity

- represents the interest rate being earned by your investment in the farm. This return can be compared to returns available if your equity were invested somewhere else, such as a certificate of deposit.

#### 10. Operating profit margin

- shows the operating efficiency of the business. If expenses are low relative to the value of farm production, the business will have a healthy operating profit margin. A low profit margin can be caused by low product prices, high operating expenses, or inefficient production.

#### 11. EBITDA

- Earnings Before Interest Taxes Depreciation and Amortization. Measures earnings available for debt repayment.

<sup>&</sup>lt;sup>2</sup>Developed by K. Becker, D. Kaupila, G. Rogers, R. Parsons, D. Nordquist, R. Craven at University of Vermont Extension and Center for Farm Financial Management, University of Minnesota.

#### **REPAYMENT CAPACITY**

- shows the borrower's (i.e., your) ability to repay term debts on time. It includes non-farm income and so is not a measure of business performance alone.

#### 12. Capital debt repayment capacity

- measures the amount generated from farm and nonfarm sources, to cover debt repayment and capital replacement.

#### 13. Capital debt repayment margin

- is the amount of money remaining after all operating expenses, taxes, family living costs, and scheduled debt payments have been made. It's really the money left, after paying all bills, that is available for purchasing or financing new machinery, equipment, land or livestock.

#### 14. Replacement margin

- the amount of income remaining after paying principal and interest on term loans and unfunded (cash) capital purchases.

#### 15. Term-debt coverage ratio

 tells whether your business produced enough income to cover all intermediate and long-term debt payments. A ratio of less than 1.0 indicates that the business had to liquidate inventories, run up open accounts, borrow money, or sell assets to make scheduled payments.

#### 16. Replacement margin coverage ratio

- A ratio under 1.0 indicates that you did not generate enough income to cover term debt payments and unfunded capital purchases.

#### FINANCIAL EFFICIENCY

 shows how effectively your business uses assets to generate income. Past performance of the business could well indicate potential future accomplishments. It also answers the questions: Are you using every available asset to its fullest potential? What are the effects of production, purchasing, pricing, financing and marketing decisions on gross income?

#### 17. Asset-turnover rate

- measures efficiency in using capital. You could think of it as capital productivity. Generating a high level of production with a low level of capital investment will give a high asset-turnover rate. If, on the other hand, the turnover is low, you will want to explore methods to use the capital invested much more efficiently or sell some low-return investments. (It could mean getting rid of that swamp on the back 40 and getting something that produces income.)

The last four ratios show how Gross Farm Income is used. The sum of the four equals 100% (of Gross Farm Income).

#### 18. Operating-expense ratio

- shows the proportion of farm income that is used to pay operating expenses, not including principal or interest.

#### 19. Depreciation-expense ratio

- indicates how fast the business wears out capital. It tells what proportion of farm income is needed to maintain the capital used by the business.

#### 20. Interest-expense ratio

- shows how much of gross farm income is used to pay for interest on borrowed capital.

#### 21. Net farm income ratio

- compares profit to gross farm income. It shows how much is left after all farm expenses, except for unpaid labor and management, are paid.

Table 28. Financial Standards MeasuresCompletely Organic Farms(Sorted By Net Farm Income)						
	Avg. Of All Farms	Low 33%	33 - 66%	High 34%		
Number of farms	48	15	16	17		
Liquidity						
Current ratio	1.66	1.06	1.91	1.87		
Working capital	65,112	4,717	46,329	136,080		
Working capital to gross inc	22.4 %	3.0 %	22.3 %	28.0 %		
Solvency (market)						
Farm debt to asset ratio	42 %	42 %	41 %	42 %		
Farm equity to asset ratio	58 %	58 %	59 %	58 %		
Farm debt to equity ratio	0.72	0.72	0.70	0.72		
Profitability (cost)						
Rate of return on farm assets	8.9 %	-2.7 %	6.4 %	16.3 %		
Rate of return on farm equity	11.5 %	-15.5 %	7.0 %	23.9 %		
Operating profit margin	22.5 %	-10.6 %	20.4 %	31.5 %		
Net farm income	67,392	-13,600	47,961	157,144		
EBIDTA	105,023	15,885	78,153	208,962		
Repayment Capacity						
Capital debt repayment capacity	69,417	7,426	57,522	135,310		
Capital debt repayment margin	31,574	-25,693	26,331	87,039		
Replacement margin	26,601	-30,091	22,823	80,180		
Term debt coverage ratio	1.83	0.22	1.84	2.80		
Replacement coverage ratio	1.62	0.20	1.66	2.45		
Efficiency						
Asset turnover rate (cost)	39.7 %	25.8 %	31.2 %	51.6 %		
Operating expense ratio	63.9 %	90.0 %	62.3 %	57.1 %		
Depreciation expense ratio	6.3 %	7.3 %	8.0 %	5.4 %		
Interest expense ratio	6.7 %	11.6 %	6.5 %	5.4 %		
Net farm income ratio	23.2 %	-8.6 %	23.1 %	32.3 %		

### Farm Financial Scorecard

Liquidity		Strong 2.0	<b>Vulnerable</b> 1.0
Current ratio	<u> </u>	2.0	1.0
Working capital	\$		
Solvency (Market)	Note: These so	lvency ratios exclude det	
Farm debt/asset ratio	%	30%	70%
Farm equity/asset ratio	<u>%</u>	70%	30%
Farm debt/equity ratio	%	43%	233%
Profitability (Cost)			
Net farm income	\$		
Rate of return on farm assets	•⁄0	8%	3%
Rate of return on farm equity	<u>%</u>	15%	5%
Operating profit margin	%	25%	10%
Repayment Capacity (Accrual)			
Term-debt coverage ratio	%	150%	110%
Capital-replacement margin	\$		
Financial Efficiency			
Asset-turnover rate (market)	<u> </u>	Can vary depending o	n the type of farm
Operating-expense ratio	<u> </u>	65%	80%
Depreciation-expense ratio	%	5%	11%
Interest-expense ratio	%	5%	11%
Net farm income ratio	<u>%</u>	20%	10%

Use these general benchmarks to evaluate the data contained in this report or to assess how your own operation is performing. Form developed by Ron Dvergsten, Suane Jaenicke, Robert Bollesen at Northland Community and Technical College, MNSCU.