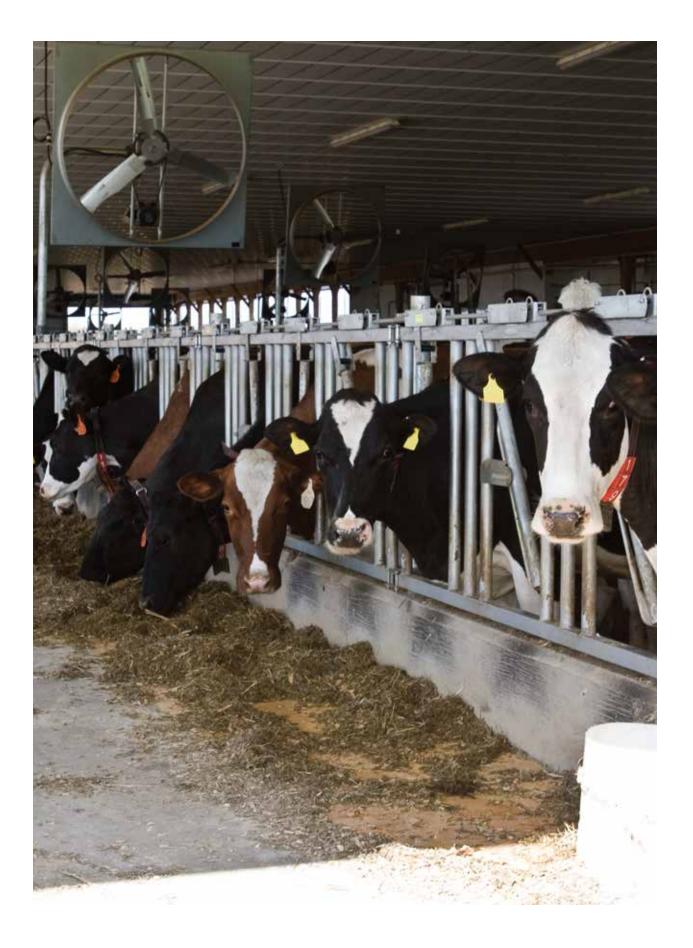
Northeast DAIRY FARM SUMMARY



2013 Northeast Dairy Farm Summary

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And, most importantly, the entire Farm Credit team extends our sincere thanks to the hardworking Northeast dairy farmers who entrusted your farm data to this project. We hope the end product is helpful in your continual pursuit of improved farm management and profitability. You inspire us all with the valuable work that you do.

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HIGHLIGHTS OF THE 2013 NORTHEAST DAIRY FARM SUMMARY

- > 517 dairy farms participated in the 2013 Northeast Dairy Farm Summary.
- Profitability improved by 18 percent in 2013. Net earnings rose to \$490 per cow in 2013, up from \$415 per cow in 2012. Farm milk price increased by \$1.56 per hundredweight (cwt.) to \$21.30.
- Many costs were also up in 2013, reaching record levels in some categories. Total cost of production increased to \$22.82 per cwt. in 2013, including depreciation and family living.
- ▶ Net cost of production (NCOP) was \$19.23 per cwt., \$1 higher than 2012.
- Specific operating cost categories also increased in 2013. Feed expense increased from \$1,767 per cow in 2012 to \$1,849 in 2013. Labor, a dairy farm's second greatest expense, was up 2 percent and crop inputs, such as fertilizer and seed, were up 8 percent per cow.
- Productivity measures were mixed. Per cow production was up by 1.3 percent from 2012 at 23,848 pounds (lbs.). Milk sold per worker was down 1.7 percent to 1,097,288 lbs.
- Cash flow was more than sufficient to meet all financial commitments (e.g., operating expenses, debt repayment, family living and income taxes) and to cover some capital purchases.
- > Percent net worth increased to 73 percent. Debt-per-cow increased from \$3,136 per cow to \$3,384.

PROFILE OF THE AVERAGE DAIRY FARMER

	2012	2013
Number of Cows	343	315
Milk Sold per Cow	23,552 lbs.	23,848 lbs.
Milk Sold per Worker	1,115,785 lbs.	1,097,288 lbs.
Milk Price per Cwt.	\$19.74	\$21.30
NCOP per Cwt.	\$18.23	\$19.23
Net Worth	72%	73%
Net Earnings per Cow	\$415	\$490
Return on Assets	4.7%	4.8%

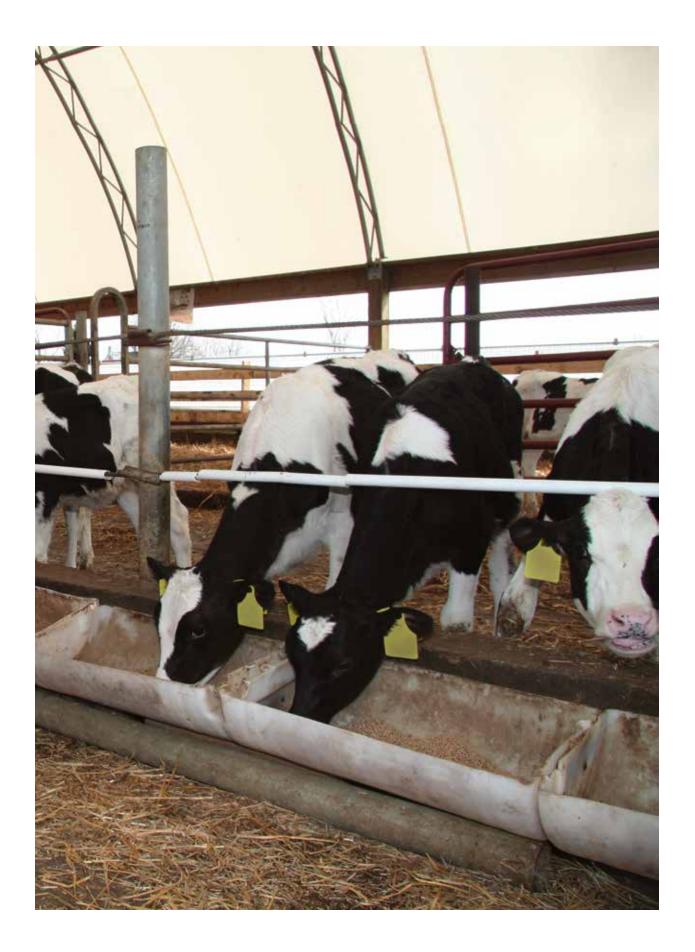


TABLE OF CONTENTS

Highlights of the 20	013 Northeast Dairy Farm Summary	<i>i</i>
Introduction		
A Change to the Da	airy Farm Summary	
Analysis of 2013		
	imbed in 2013	
	es	
	ction Up Significantly	
	nges	
	proves	
Debt Capacity	Again Strong	
1 /	ises Per Cow Up From Last Year	
-	Strengthen	
Net Margin Di	ifferences Again Significant in 2013	
Management S	Style and Dairy Profits	
Do Larger Fari	ms Have the Edge on Profitability?	
Conclusion		
Financial Records		29
	etween Years 2009-2013	
-	he DFS's Earnings Statement	30
Table A-1.	Earnings Worksheet	
Table A-2.	Earnings Worksheet per Cwt.	
Table A-3.	Balance Sheet Summary – December 31	
Table A-4.	Evaluation Factors	
Table A-5.	Trend Analysis	
2013 Data by H		
Table B-1.	Earnings Worksheet	
Table B-2.	Balance Sheet Summary	
Table B-3.	Evaluation Factors	
2013 Data by H	Profit Groups	
•	Earnings Worksheet	
Table C-2.	Balance Sheet Summary	
Table C-3.	Evaluation Factors	
Table C-4.	Cost of Producing Milk By Profit Groups	
Table C-5.	Cash Margins By Profit Groups	
Table C-6.	Reserve Debt Capacity by Profit Groups	
2013 Data by H		
Table D-1.	Earnings Worksheet	
Table D-2.	Balance Sheet Summary	
Table D-3.	Evaluation Factors	
Glossary		. Inside of Back Cover

INDEX OF FIGURES

.....

Profile of the A	verage Dairy Farmer	i
Figure 1:	Dairy Farm Profitability	5
Figure 2:	Net Earnings per Cow	5
Figure 2A:	Comparison of Multiyear Averages	6
Figure 3A:	Farm Milk Prices per Cwt. (Actual vs. 5-Year Average)	7
Figure 3B:	Farm Milk Prices per Cwt. (Actual vs. Real Dollars)	7
Figure 4A:	Cost of Producing Milk - Accrual Basis	8
Figure 4B:	Specific Cost Categories	9
Figure 4C:	NCOP by Region	.0
Figure 4D:	NCOP by Herd Size	.1
Figure 5:	Farm Size and Milk Production 1	.2
Figure 5A:	Growth in Herd Size of Same DFS Farms 1	.3
Figure 5B:	Labor Productivity Spurs Profits 1	.4
Figure 6:	Capital Efficiency 1	.5
Figure 7:	Cash Flow Analysis per Cwt 1	.6
Figure 8:	Debt Capacity 1	.8
Figure 9:	Capital Purchases 1	.9
Figure 10:	Cash Sources and Use Statement	20
Figure 11:	Change in Financial Position	21
Figure 12:	Range of 2013 Profits	2
Figure 13:	Cost of Producing Milk by Profit Groups	23
Figure 14A:	Profit vs. Milk Sold per Cow	24
Figure 14B:	Profit vs. NCOP	24
Figure 15:	Winning Management Styles of Top 25%	25
Figure 16:	Size and Profitability	27

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INTRODUCTION

The purpose of Farm Credit's annual Dairy Farm Summary (DFS) is to assess the financial health and progress of Northeast dairy farm businesses. It is intended to provide dairy producers, Farm Credit personnel, Northeast public policymakers and dairy leaders with a better understanding of the current status and future prospects of the Northeast's largest farm industry.

As a major regional summary of actual dairy farm business results, the Dairy Farm Summary is a unique annual project within the U.S. dairy industry. It is the result of cooperation and hard work by many people. We are grateful, first and foremost, to the 517 dairy producers who allowed their financial and production records to be used in this study. Further, we appreciate the teamwork and timeliness of Farm Credit staff across the Northeast who helped customers provide that information. The DFS contains five years of financial data for dairy farms in New York, New England and New Jersey.

We believe this sample of 517 farm operations represents a solid cross section of better-than-average Northeast dairy farm businesses, most of which maintain loan relationships with Farm Credit. All farms received the majority of their income from milk sales, but many farms have additional business income, such as custom work or crop sales. We have purposely not excluded these farms from the sample (unless such income comprises a majority of farm income) as we feel it reflects the diverse face of Northeast dairying, where many producers have added supplementary income streams to increase earnings.

Partnerships and corporations were adjusted to a sole proprietor basis for consistency. Farms with unusual events, such as a large expansion, a major herd-health problem, an inheritance, significant unexplained gains or losses (>10 percent of total assets) or other types of business anomalies were excluded from the sample. Each farm's data was carefully reviewed to ensure both cash flow and net worth reconciled. This approach ensures a high level of integrity for the financial results presented in the 2013 Dairy Farm Summary.

The DFS tends to focus discussion on the "average farm," which, in reality, does not exist. By focusing on the average, we are able to highlight changes: 1) of Northeast dairy farms over time; 2) within individual herd-size groups; and 3) within the top and bottom profitability groups. While the use of averages leads to an effective discussion with respect to change, it tends to minimize both the best and worst conditions experienced by farms within the sample, as it pushes everything to the mathematical middle. This is again true in a year such as 2013. While the "average farm" had \$490 per cow in net income in 2013, 88 farms (17 percent) in our sample had negative net farm income. Focusing on average results belies the fact that some producers, of all sizes, still struggle to make a profit. It should also be noted that the DFS benchmark uses weighted averages based on hundred-weights (cwts.) of milk sold.

Without question, navigating through the past decade has been challenging for dairy farm management. As you read this summary, it is important to keep the following in mind:

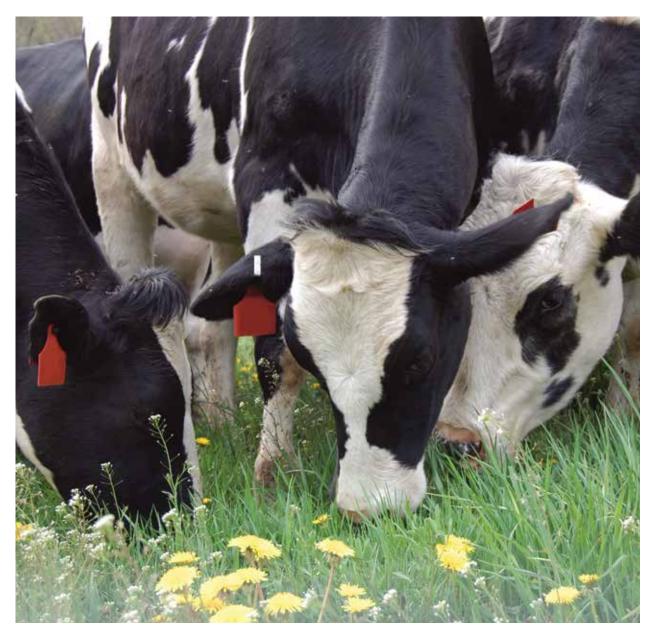
- Milk prices rose significantly in 2013. Costs of production, particularly feed and crop input costs, increased to a lesser extent.
- 2012 marked a "soft landing" for Northeast dairy farmers, if you believe in three-year cycles. Net earnings fell from \$797 in 2011 to \$415 in 2012, a 48 percent decline. This was still a healthy level for dairy's down year. In 2013, milk prices rebounded and net earnings subsequently rose to \$490.
- > Debt per cow increased 8 percent in 2013, from the previous year.
- Cash flow for many farms supported greater capital replacement. Capital purchases increased roughly 5 percent from the prior year at \$813 per cow.

A CHANGE TO THE DAIRY FARM SUMMARY

We are using a gross margin format in our "1" tables this year, starting with A-1. The gross margin format separates expenses into variable (cost of goods sold) and fixed (overhead) costs. Variable costs are those that vary directly with quantity produced, such as feed and labor. Fixed costs are those that generally do not change with incremental adjustments in production, such as property taxes and insurance.

The gross margin format helps us look deeper into the earnings statement. When looking at cost of goods sold and gross margin, we can gain insight into how efficient farms are at converting raw materials into finished product (production efficiency). When looking at overhead costs, we can gain insight into how effectively farms are at utilizing their capital investment in land, buildings and equipment (capital efficiency).

Analysis of 2013



PROFITABILITY CLIMBED IN 2013

In 2013, profitability climbed for the Northeast dairy industry with an increase of \$75 in average net earnings per cow. Net earnings were \$490 per cow, bringing the three-year average to \$567.

Income was up as the milk price rose by \$1.56 per cwt. to an average of \$21.30. Cost of production increased as well by \$1 per cwt. to \$19.23, preventing producers from realizing the full gain from the higher milk price.

Nonetheless, in terms of actual (not adjusted for inflation) dollars, 2013 was the fourth most profitable year in the history of the DFS, after 2007, 2011 and 2004.

This summary uses three primary measures of profitability, each of which provides a useful perspective on dairy farm financial performance:

- Net earnings per cow measures sheer dollars of profit earned relative to the size of the operation and includes all sources of income, including nonfarm sources.
- Return on assets (ROA) measures profit earned relative to the present market value of total farm assets. This indicates the earning power of each dollar invested in the farming operation, regardless of whether it comes from the farm operator or was borrowed from a lender.
- Return on equity (ROE) measures profit earned relative to the farmer's equity investment in the operation. This measure is the best indicator of how the dairy producer's investment is paying off compared to how it might pay off if invested another way.

The importance of risk management cannot be overstated given the year-to-year fluctuations in milk price, cost of inputs and profitability experienced by the Northeast dairy industry. That a single year does not provide an accurate picture of the industry's long-term operating performance is still true. To further illustrate, when ranked, four of the last eight years account for both the top two years for profitability in the DFS history and also for the bottom two. Given these extremes, multiyear averages create a more accurate picture of the industry. If we look at both a shorter- and longer-term average, we see similar results (Figure 2A). Continued year-to-year volatility confirms the challenges and opportunities that Northeast dairy producers face. The reality is that higher average returns over the course of the cycle may be possible for those who are able to manage the ups and downs.

Figure 1

DAIRY FARM PROFITABILIT	Y		
	Net Earnings per Cow ¹	Return on Assets ²	Return on Equity ³
2009	\$ -386	-2.6%	-5.4%
2010	\$ 396	5.2 %	5.8%
2011	\$ 797	8.4%	10.7%
2012	\$ 415	4.7%	5.0%
2013	\$ 490	4.8 %	5.3%
3-Year Average	\$ 567	6.0%	7.0%
5-Year Average	\$ 342	4.1 %	4.3%

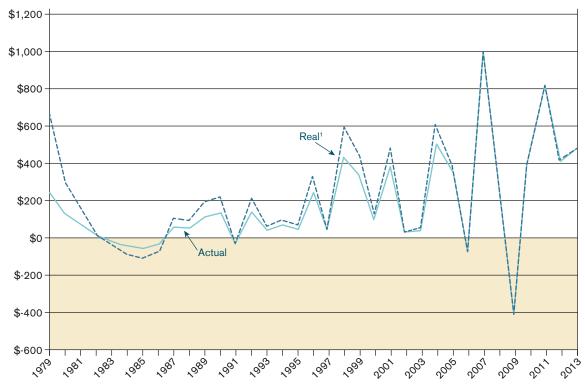
¹Net earnings includes nonfarm income.

 $^{\rm 2}\,{\rm Return}$ on assets = (net earnings + interest) / average total assets

³Return on equity = net earnings / average net worth

Figure 2

NET EARNINGS PER COW



¹Real price is actual price adjusted for inflation.

Figure 2A

	Three-Year Average	Five-Year Average	Ten-Year Average
Net Earnings per Cow	\$567	\$342	\$ 379
Return on Assets	6.0 %	4.1%	5.1%
Return on Equity	7.0%	4.3%	5.4%

COMPARISON OF MULTIYEAR AVERAGES

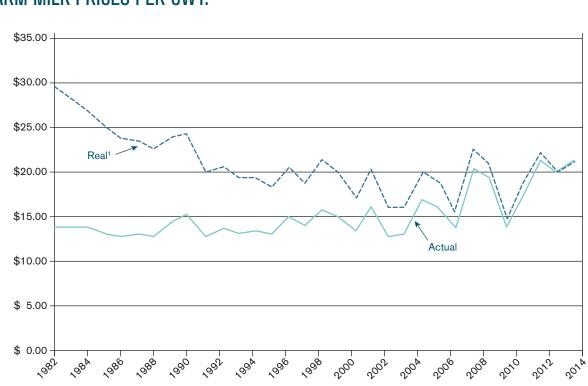
It is important to differentiate net earnings (profit) from cash flow. Farmers rely on cash flow to pay ongoing bills, but cash flow is not an accurate measure of profitability. Net earnings are an accrual measure of profit, which represents a farm business's ability to provide an economic return for the operator's investment and management. It offers the most complete picture of a farm's profitability by adjusting cash farm income and expenses to reflect changes in inventories, accounts receivable, accounts payable and prepaid expenses. (See Glossary.)

MILK PRICE RISES

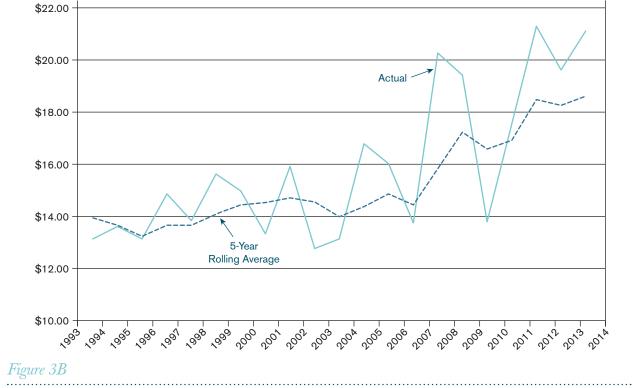
The average farm milk price at \$21.30 per cwt. was up nearly 8 percent from 2012's \$19.74. It was \$2.49 above the five-year average of \$18.81/cwt. (Figure 3A). In terms of actual milk prices, 2013 ranked third highest in the 32 years of the DFS. However, to better understand the true story of how milk prices have changed over time, we must account for the impact of inflation (Figure 3B). In terms of "real" inflation-adjusted rankings, 2013 drops to 14th. The first year of the DFS, 1979, ranks first. Milk Income Loss Contract (MILC) Program payments were triggered in the first seven months of 2013.

Monthly milk price (Boston blend) began 2013 at a reasonably strong \$19.73/cwt. The monthly price fell for a few months, dipping to \$19.32 in March before recovering to \$19.78 in May. It then increased each month, peaking in December at \$21.79. The average Boston blend price for 2013 was \$20.25. Several factors contributed to increased milk price volatility in recent years. Changes in export markets and domestic demand as well as shifts in supply affect prices. Increased global market activity quickened the pace by which production is required to adjust, further contributing to price volatility. Investment decisions should include an analysis of management's ability to cope with price and earnings volatility.





FARM MILK PRICES PER CWT.



FARM MILK PRICES PER CWT.

Figure 3A

COST OF PRODUCTION UP SIGNIFICANTLY

The net cost of production (NCOP) increased by 5.5 percent from 2012 to a new record high. 2012's NCOP was \$18.23/cwt. 2013's NCOP rose to \$19.23, the highest in DFS history. Three key figures to review for 2013's cost of production analysis of the average dairy farm in the DFS include:

- ➤ Cash operating expenses were \$20.63 per cwt., up slightly from 2012.
- ➤ Total costs, including depreciation and family living were \$22.82 per cwt., up \$0.35.
- > After subtracting non-milk income, NCOP was \$19.23 per cwt., up \$1.00 per cwt. from the previous year.

A substantial decrease in non-milk income in 2013 magnified the increase in NCOP.

OST OF PRODUCING MILK – ACCRUAL BASIS							
	2009	2010	2011	2012	2013		
Feed	\$ 5.58	\$ 5.58	\$ 6.79	\$ 7.61	\$ 7.75		
Labor	2.88	2.81	2.97	3.11	3.09		
Interest	0.55	0.58	0.52	0.50	0.49		
Freight & Marketing	0.93	0.94	0.87	0.95	0.95		
Crop	1.12	1.10	1.28	1.54	1.61		
Other	5.78	6.08	6.87	6.78	6.74		
Adjusted Cash Operating Expenses	\$16.84	\$ 17.09	\$ 19.29	\$ 20.49	\$ 20.63		
+ Depreciation	1.32	1.23	1.33	1.34	1.43		
+ Family Living	0.74	0.67	0.69	0.64	0.76		
Total Costs	\$18.90	\$ 18.99	\$ 21.31	\$ 22.47	\$ 22.82		
- Non-Milk Income ¹	3.37	3.02	3.21	4.24	3.59		
Net Cost of Production ²	\$15.53	\$ 15.97	\$ 18.10	\$ 18.23	\$ 19.23		

¹Non-milk income includes cattle, crop and other income adjusted for inventory changes.

²Before any return on equity. Each 1 percent return on equity would be equivalent to another \$0.38 added to the NCOP for 2013.

Figure 4A

Driven by continued high feed expenses in 2013, high total costs are not a surprise. Feed remained expensive throughout 2013, due to the drought-stricken grain crop of 2012. At the very end of the year, when the more abundant 2013 harvest became available, some relief was felt on the price of purchased feed.

Other categories with increases include crop inputs (chemicals and sprays, fertilizer and lime, and seeds and plants). Increases in most other items were modest and some categories even declined. Presumably Northeast dairy producers continued to catch up on deferred maintenance that they had put off in the lower margin years of the past as repair expenses remained high at \$331 per cow in 2013 after averaging \$235 for 2009 and 2010. Labor costs were close to inflation, with a 2 percent increase.

Figure 4B

SPECIFIC COS	ST CATEGOI	RIES				
	20	12	201	3	% Cha	ange
	per Cow	per Cwt.	per Cow	per Cwt.	per Cow	per Cwt.
Feed	\$1,767	\$ 7.50	\$1,849	\$ 7.75	5%	3%
Fuel	\$ 253	\$ 1.07	\$ 251	\$ 1.05	-1%	- 2 %
Crop Inputs	\$ 357	\$ 1.52	\$ 384	\$ 1.61	8%	6 %
Freight & Marketing	\$ 221	\$ 0.94	\$ 227	\$ 0.95	3%	1%
Labor	\$ 722	\$ 3.07	\$ 737	\$ 3.09	2%	1%

It is important to note that the \$19.23 average NCOP includes no return on the producer's equity investment. While it may be debatable what an appropriate return on equity (ROE) might be, earning some level of return should be a business objective. For the average DFS producer, each 1 percent return on equity is equivalent to an additional \$0.38 per cwt. If we were to include a 5 percent ROE goal, for example, this would be equivalent to a \$21.13 net cost of production.

Figure 4C compares NCOP by our three main regions for 2013. New York producers typically have an advantage in lower costs and higher production per cow over producers in New England. Additionally, with the ability to grow more feed, they generally have higher crop sales and are also able to grow more grain for their own use. However, Connecticut, Maine and Massachusetts have state support programs for dairy farmers, which help supplement farm income. Farms in the Southern New England sample had higher government payments (reflected in non-milk income in Figure 4C) than their New York or Northern New England counterparts, which helped make their NCOP more competitive. The difference in NCOP was narrower in 2013 than 2012 between the two regions, with New York producing milk at \$0.63 per cwt. less than New England, when all six states are combined.

Figure 4C

NCOP BY REGION

Cost per CWT.	New York	Northern New England ¹	Southern New England ²
Feed	\$ 7.44	\$ 8.49	\$ 8.50
Labor	3.04	3.07	3.94
Interest	0.50	0.48	0.43
Freight & Marketing	0.94	0.96	1.18
Сгор	1.71	1.31	1.58
Other	6.74	6.64	7.21
Adjusted Cash Operating Expenses	\$ 20.37	\$ 20.97	\$22.84
+ Depreciation	1.48	1.28	1.42
+ Family Living	0.78	0.67	0.88
Total Costs	\$ 22.63	\$ 22.91	\$ 25.14
- Non-Milk Income	3.63	3.07	5.72
Net Cost of Production	\$ 19.00	\$ 19.84	\$ 19.42

¹ Northern New England is Maine, New Hampshire and Vermont.

² Southern New England is Massachusetts, Connecticut and Rhode Island.

In Figure 4D, we compare the NCOP by herd-size category. NCOP increased about 6 percent across the board. Generally, larger herds have an advantage in spreading costs over more units, driving per-unit cost down. Smaller herds have lower labor costs and higher non-milk income per unit; however, family living and other costs are usually higher, when expressed on a per-unit basis.

NCOP BY HERD SIZE				
Cost per CWT.	< 100 cows 144 farms	100-299 Cows 194 farms	300-699 cows 114 farms	700+ cows 65 farms
Feed	\$ 6.85	\$ 7.52	\$ 7.75	\$ 7.97
Labor	1.85	2.91	3.26	3.19
Interest	0.65	0.57	0.47	0.45
Freight & Marketing	1.07	1.01	0.97	0.90
Crop	1.75	1.72	1.65	1.51
Other	7.78	7.35	6.89	6.26
Adjusted Cash Operating Expenses	\$ 19.96	\$ 21.07	\$20.98	\$ 20.28
+ Depreciation	2.54	1.90	1.31	1.17
+ Family Living	2.59	1.37	0.60	0.38
Total Costs	\$25.09	\$ 24.35	\$ 22.89	\$ 21.83
- Non-Milk Income ¹	5.02	3.97	3.66	3.17
Net Cost of Production	\$20.07	\$ 20.38	\$ 19.22	\$ 18.67

Figure 4D

NCOD BY HERD SIZE

¹Non-milk income includes cattle, crop and other income adjusted for inventory changes.

In an industry noted for volatile milk prices, the ability to control expenditures, improve efficiency and adjust to changing input costs is critical to a dairy producer's financial performance.

HERD SIZE CHANGES

The sample of farms that participate in the Dairy Farm Summary changes slightly from year to year. Some farms drop out of the DFS, while other farms join. This year is unusual in that even though our sample, at 517 farms, increased in number, our average herd size declined 8 percent. This should not be interpreted to mean that the average Northeast dairy farm is downsizing, but merely that our 2013 farm sample includes a few more smaller farms and a few less larger farms than the year before. Specifically, our 2013 sample included 11 more farms in the 99 or fewer category and 5 fewer farms in the 700 or more category than the year before.

In the 2013 DFS sample, the number of cows per farm decreased from 343 head to 315. Milk sold per worker was down by 1.7 percent to 1,097,288 pounds in 2013. Milk sold per worker is the second highest in the history of the DFS, second only to 2012.

Still, as shown in Figure 5, the largest size group remains responsible for the greatest percentage of milk production in the DFS sample.

Figure 5

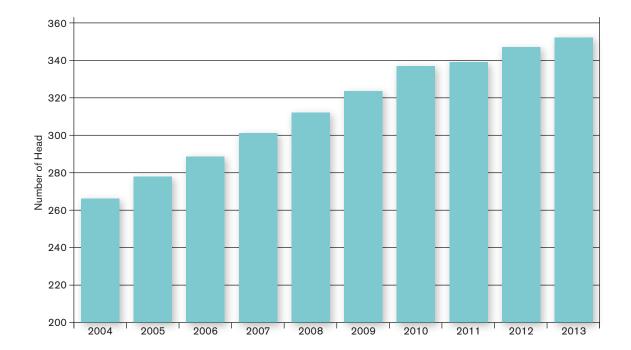
FARM SIZE AND MILK PRODUCTION

	99 Cows or Fewer	100-299 Cows	300-699 Cows	700 Cows or More
Number of Farms	144	194	114	65
Volume of Milk Produced ¹	5%	19%	33%	43 %

¹As a percent of all farms in the 2013 DFS

In order to more accurately look at real growth in herd size as opposed to changes in the DFS sample, a group of the same farms, which have been included in the benchmark for the past 10 years, is shown in Figure 5A. Growth has been relatively steady over the past decade for this group of 51 farms, starting with an average 266 head in 2004 and ending with 352 head in 2013. Of course, each farm grew at a different rate, with individual farms having major expansions in some years and being flat in others. But collectively they averaged a 3.2 percent annual growth rate in individual farm herd size over the time period.

Figure 5A **GROWTH IN HERD SIZE OF SAME DFS FARMS**





NORTHEAST DAIRY FARM SUMMARY 2013

Figure 5B illustrates the close relationship between labor productivity, cow productivity and overall dairy farm profitability. As more cows are handled per worker, milk sold per worker increases. Milk sold per worker and per cow share a close positive relationship. That is, typically as one goes up, so does the other. More milk per cow is favorable in terms of greater productivity and total production. It also drives gross revenue, which is a key factor in profitability. While milk sold per cow correlates positively with adjusted net earnings per cow, more important is a low NCOP, which is enhanced by better labor efficiency.

Figure 5B also shows increasing labor and family living expenses per person as milk sold per worker increases. Farms with higher labor efficiency tend to have a lower cost per cwt. for labor and family living. For example, those farms selling less than 500,000 pounds of milk per worker have the lowest average labor and family living expense per person at \$21,058, but on a per cwt. basis, their cost is \$4.98 per cwt. In contrast, those selling 1.4 million or more pounds of milk per person have a lower labor and family living cost, or \$3.10 per cwt., despite paying nearly 2.5 times more per person. Thus the efficiency gained also allows for greater flexibility with respect to employee compensation and family living draw.

Figure 5B

LABOR PRODUCTIVITY SPURS PROFITS

Pounds of Milk Sold per Worker	Percent of Farms	Number of Cows	Cows per Worker	Milk Sold per Cow	Avg. Labor & Family Living Per Person ¹	Adjusted Net Earnings Per Cow ²
499,000 or less	8 %	72	24	17,895	\$ 21,058	\$-347
500,000-599,000	8%	91	30	18,871	\$ 29,130	\$ -325
600,000-699,000	9 %	128	33	19,917	\$ 30,198	\$-7
700,000-799,000	9 %	137	36	1,269	\$ 31,437	\$ 171
800,000-899,000	9 %	222	39	22,804	\$ 39,344	\$ 50
900,000-999,000	11%	325	45	21,736	\$40,020	\$ 145
1 to 1.09 million	10 %	399	46	23,048	\$42,650	\$ 374
1.1 to 1.19 million	11%	460	49	23,624	\$42,506	\$ 495
1.2 to 1.39 million	12 %	513	55	23,993	\$ 47,905	\$ 310
1.4 million or more	12 %	553	68	24,787	\$ 51,303	\$ 597

¹ Includes operator and other family labor

²Net earnings per cow less net nonfarm income

When viewed on a per cow, or per cwt. basis, larger farms are able to spread costs and investments over more units. For example, the small farm group produced 43 percent less milk per worker than the average of all farms and had 72 percent more investment (\$86 versus \$50 per cwt.). Return on assets was positive for all groups, though the largest group was the most profitable with the greatest return on assets.

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Figure 6

CAPITAL EFFICIENCY

Herd Size (No. of Cows)	Pounds Sold per Worker	Pounds Sold per Cow	Total Assets per Cwt.Sold ¹	Asset Turnover (Years)²	Return on Assets ³
99 or Fewer	628,976	20,133	\$86	0.29	1.6 %
100 to 299	942,816	21,762	\$65	0.38	2.1%
300 to 699	1,154,093	23,985	\$49	0.51	5.4%
700 or More	1,253,755	25,287	\$43	0.56	7.0 %
All Farms	1,097,288	23,848	\$50	0.49	4.8 %

¹ Total assets / cwt. of milk sold

² Total assets / cash receipts = number of years

³Return on assets = (net earnings + interest) / average farm assets

CASH FLOW IMPROVES

Cash flow is another measure of financial health for a dairy operation or any business. Each business has a minimum cash requirement to meet its ongoing commitments, such as operating costs, overhead, debt principal payments and family living. What remains can be used for capital replacement, to build liquidity or to invest in a retirement fund. The cash margin rose in 2013 to \$2.11 per cwt., up from \$1.56 in 2012 (Figure 7). The highest cash margin in DFS history was 2007's \$4.14 per cwt.

Figure 7 shows the trend in cash margins that the average dairy farm in the summary experienced since 2009. The cash margin has exhibited substantial volatility during this time. Due to the substantial inflation of farm costs in recent years, the breakeven milk price has moved up significantly from around \$14 per cwt., which was common before 2007. Milk prices have moved up in most of these years, setting new records in 2007 and 2011. 2007's cash margin of \$4.14 still stands as a record high.

GAON FLUW ANALISIS FER GWI.								
	2009	2010	2011	2012	2013			
Actual Milk Price	\$ 13.80	\$ 17.70	\$ 21.53	\$ 19.74	\$ 21.30			
Cash Required	\$ 19.14	\$ 19.31	\$ 21.36	\$ 22.09	\$ 22.77			
- Other Income	\$ 3.12	\$ 2.98	\$ 3.26	\$ 3.91	\$ 3.57			
Breakeven Milk Price	\$ 16.02	\$ 16.33	\$ 18.10	\$ 18.18	\$ 19.19			
Cash Margin	\$ -2.22	\$ 1.37	\$ 3.43	\$ 1.56	\$ 2.11			

Figure 7

CACH FLOW ANALYSIS DEB CWT

Cash Margin Definitions

Total cash operating expenses	Cattle sales
+ Family living expense and income tax	+ Capital sales
+ Scheduled principal payments	+ Crop sales
	+ Other farm & nonfarm income
= Cash required	= Other income

Given the high level of volatility in the dairy industry, making a financial decision based on a single year's performance would be dangerous. Figure 7 further illustrates this point:

- Cash margin in 2011 was very strong.
- ▶ 2010, 2012 and 2013 cash flow was adequate.
- ➤ Cash flow produced in 2009 was well below breakeven.

This level of variability makes financial management more challenging, stressing the importance of a long-range view of cash flow. Timing of major capital expenditures, managing debt load, building liquidity for the tight years and adjusting family withdrawals are all means of managing volatility. Some producers have also adopted risk management strategies involving both input costs and milk prices as well as linking employee compensation to annual operating results.

DEBT CAPACITY AGAIN STRONG

Debt capacity measures the maximum amount of capital debt a farmer could repay from cash generated from the farm business and nonfarm sources. It is determined primarily by cash flow and, to a lesser extent, by interest rates. Reserve debt capacity is the difference between debt capacity and the actual amount of capital debt invested in the business. It is a buffer against financial adversity which could occur within the business, such as herd health problems or crop failure, or from the marketplace, such as low milk prices or high feed costs. It represents the amount by which capital debt can be increased above existing levels and still be repaid from that year's cash flow. In 2013, more than sufficient farm earnings provided adequate cash flow to service debt for the average DFS farm, maintaining debt capacity and reserve debt capacity at higher than the five-year average level (Figure 8).

Figure 8 shows the five-year average for reserve debt capacity. In 2013, it was \$1,721 per cow, up from 2012, but below 2011's level. "Never borrow your last dollar during a good year" is time-tested financial wisdom in the farming community. The implication is that a prudent borrower wants to preserve significant liquidity in terms of unused borrowing capacity to fall back on during years of low income or other adversity.

Figure 8 shows that Northeast dairy farmers and their Farm Credit lenders have taken this advice to heart during the post-2000 period in terms of maintaining a healthy level of reserve debt capacity. During 2009, when Northeast dairy farmers had little cash flow capacity to repay debt, farmers and their lenders were better positioned to get through this difficult year than in other parts of the country where both farmers and lenders struggled. In today's increasingly volatile dairy business climate, liquidity is a critical factor to achieve long-term business viability and financial flexibility to deal with tough years. Whether cash in a savings account, prepaid expenses, inventories that can be quickly turned into cash or substantial unused capacity on one's line of credit, clearly strong liquidity is critical to dairy business success.

Figure 8.

DEBT CAPACITY

Average Farm Credit Interest Rate ¹	2009	2010	2011	2012	2013
Commercial (Intermediate Term)	4.1%	4.1%	4.1%	4.0 %	4.0 %
Real Estate (Long Term)	4.4%	4.6 %	4.5 %	4.4 %	4.3%
Debt Capacity, per Cow	\$-383	\$ 4,770	\$ 8,074	\$ 5,322	\$ 6,108
- Capital Debt	\$ 3,038	\$ 3,126	\$ 2,939	\$ 3,080	\$ 3,104
RESERVE DEBT CAPACITY	\$-3,421	\$ 1,644	\$ 5,135	\$ 2,242	\$ 3,004
3-Year Average Reserve Debt capacity ²	\$ 1,270	\$ 123	\$ 1,119	\$ 3,007	\$ 3,460
5-Year Average Reserve Debt Capacity ²	\$ 1,135	\$ 946	\$ 2,118	\$ 1,549	\$ 1,721
Debt Payments as Percent of Milk Sales	17%	13%	11%	13 %	12 %

¹ Average interest rates for northeastern region ACAs excluding benefit of patronage dividends.

² Averages include pre-2009 data.

18

The current debt capacity is substantially impacted by historically low interest rates, which continued during 2013. In planning for the future, it is important not to be lulled into thinking that today's low interest rates will last indefinitely. At some point, the Federal Reserve will begin to increase short-term rates and this will impact debt service requirements and capacity for those farmers who have variable rate debt. If the average dairy farmer had to repay today's debt at 2007 interest rates (7.7 percent and 7.6 percent), it would reduce both debt capacity and reserve debt capacity by about \$1,000 per cow – a major change in their repayment capacity.

CAPITAL PURCHASES PER COW UP FROM LAST YEAR

Northeast dairy farmers increased capital spending by 5 percent per cow in 2013 (Figure 9). The majority of capital purchases were for replacement machinery and equipment, with some buildings and land improvement. Total capital purchases per farm were \$256,095, which is also significantly above the five-year average of \$207,736.

Figure 9

UALITAL LONOHAOLO			
	Per Farm	Per Cow	% of Total Assets ¹
2009	\$ 122,988	\$ 444	4.3%
2010	\$ 146,880	\$ 480	4.6%
2011	\$ 253,628	\$ 778	6.9%
2012	\$ 265,825	\$ 775	7.1%
2013	\$ 256,095	\$ 813	6.5%
3-Year Average	\$ 256,270	\$ 782	6.4 %
5-Year Average	\$ 207,736	\$ 654	5.6%

CAPITAL PURCHASES

¹Capital purchases as a percent of total assets show an approximate rate of reinvestment in the farm enterprise.

Figure 10 shows a cash flow statement on a per-cow basis for the average Northeast dairy farmer in the study. It includes sources and use of cash for the business, including what was available to cover capital purchases.

Figure 10

CASH SOURCES AND USE STATEMENT

Sources:	2	009	2	010		011 per Cow	2	012	2	013
Net Farm Income ¹	\$	113	\$	507	\$	916	\$	613	\$	617
Net Nonfarm Income		40		41		41		44		57
Sale of Capital		35		50		50		58		59
Paid-in Capital ²		30		22		18		42		33
Money Borrowed		780		411		329		589		703
TOTAL SOURCES	\$	998	\$	1,031	\$1	,354	\$ 1	1,346	\$ 1	,469
Uses:										
Family Living	\$	166	\$	153	\$	160	\$	150	\$	180
Capital Purchases		444		480		778		775		813
Debt Principal Payments		388		398		416		421		476
TOTAL USES	\$	998	\$	1,031	\$1	,354	\$ 1	1,346	\$ 1	,469
Percent Capital Purchases Financed ³	1	76 %		86%		42 %		76 %		86%

¹Net farm income is on a cash basis without accrual adjustments to expenses.

² Includes savings withdrawn, gifts, inheritances, grants and debt forgiven

³ Money borrowed / capital purchases

Total sources of cash were up in 2013 to \$1,469 per cow. Net cash farm income increased slightly from 2012, up less than 1 percent to \$617 per cow. Capital purchases in 2013 were largely financed by increased borrowing, up 19 percent in the same period. However, farms also paid down some liabilities during the year, so net debt per cow increased at a much lower rate.

BALANCE SHEETS STRENGTHEN

Net worth, or owner's equity, measures the wealth of the farm business owner. It is measured at each year's end in the DFS in order to accurately compare changes. Net worth is an indicator of the ability of the business to absorb financial losses and to collateralize additional borrowing. It is also a measure of the amount of money that could be redeployed toward other endeavors if the business were liquidated.

The average DFS dairy farmer's net worth in 2013 grew by \$1,351 to \$9,162 per cow from \$8,441 in 2012. Percent net worth also increased to 73 percent (Figure 11). Solvency remains solid for the average DFS farm, meaning that the average DFS participant would have more than enough farm assets to liquidate, if needed, in order to satisfy all farm debts, selling fees and resulting income tax liability and also to leave money reserves.

Figure 11

CHANGE IN FINANCIAL POSITION

	Change in Net Worth per Cow	Percent Net Worth ¹	Current Ratio ²	Quick Ratio ³	Asset Turnover ⁴
2009	\$ -637	68 %	2.0	0.8	0.37
2010	\$ 115	68 %	2.3	0.9	0.47
2011	\$ 1,087	72 %	2.8	1.2	0.52
2012	\$-367	72 %	2.8	1.2	0.52
2013	\$ 1,351	73 %	2.8	1.2	0.48

 1 Percent net worth = Owner's net worth / total assets

²Current ratio = Current assets / current liabilities

³ Quick ratio = Current assets - inventory / current liabilities

⁴Asset turnover = Value of farm production / average total assets

There is an important distinction between growth in net worth resulting from earnings versus market revaluation. Net earnings are the result of profits from dairy farming. Market revaluation generally occurs in farm real estate and cattle, while machinery and equipment ordinarily depreciate.

For the few years leading up to 2008, livestock asset values per cow (including youngstock) increased to \$2,419. Cattle values then decreased two years in a row in 2009 and 2010. They were up by \$61 per cow in 2011 to \$2,307 and then they declined slightly to \$2,300 in 2012. 2013 saw a further drop, to \$2,286 per milking head (Table A-3). The average DFS farm raises a relatively large amount of replacement heifers as reflected in young-stock as a percent of cows.

Liquidity is the ability of the farm operator to convert short-term assets (current assets) to cash to meet short-term obligations (current liabilities) as they become due. Its importance cannot be overstressed in a volatile industry, such as dairy.

Current and quick ratios are two measures of liquidity. In 2013, the average dairy farm had a current ratio of 2.8, holding steady from 2.8 in 2011 and 2012 (Figure 11). Good cash flow in 2013 and sufficient inventories relative to current liabilities helped maintain this ratio.

However, since inventory on a dairy farm is primarily feed for onfarm use and not intended to be directly converted into cash to pay bills, subtracting inventory from the current ratio produces the quick ratio and provides a closer look at a dairy farm's true liquidity situation. The quick ratio of 1.2 at the end of the year further demonstrates strong liquidity positioning in 2013.

Finally, asset turnover is commonly used to measure the efficiency of total capital invested in the business by determining gross revenue dollars generated for every dollar invested. The higher the asset turnover ratio, the more efficiently the investment is working for the business: greater asset turnover should translate into a higher return on assets (ROA). In 2013, asset turnover for the average Northeast dairy business was 0.48, down from 0.52 in 2011 and 2012. This was largely a result of the increase in total assets per cow. This means \$0.48 of gross revenue was generated for every \$1 invested in assets, up from 2009 and 2010, but still below 2011 and 2012.

NET MARGIN DIFFERENCES AGAIN SIGNIFICANT IN 2013

We again saw a wide range of profits around the \$490 per cow average in 2013. Some farms lost more than \$1,000 per cow while others posted more than a \$2,000 gain. Figure 12 demonstrates the range of profitability between the top and bottom profit groups. Farms in the summary are ranked by profit margin and divided into four quartiles. For the sake of comparison, the all-farm average is also included.

KANGE OF 2013 PROFIIS									
	Bottom 25%	All Farms	Top 25%						
Number of Farms	130	517	129						
Average Number of Cows	218	315	311						
Milk Sold per Cow (lbs.)	21,585	23,848	25,287						
Milk Sold per Worker (lbs.)	951,497	1,097,288	1,179,549						
Net Earnings									
Per Farm	\$ 5,668	\$ 154,350	\$ 266,527						
Per Cow	\$ 26	\$ 490	\$ 857						
Per Cwt.	\$ 0.12	\$ 2.05	\$ 3.39						
Return on Assets ¹	0.8%	4.8 %	6.7%						
Return on Equity ¹	0.3%	5.3%	7.7%						

Figure 12

¹ ROA and ROE calculations do not include asset appreciation.

There was an \$831 difference in net earnings per cow between the top and bottom quartile groups. This is smaller than last year's difference, which stood at \$1,257. Similarly on a per cwt. basis, the top farms posted \$3.27 more net earnings than the least profitable farms with earnings of \$3.39 while the bottom group earned only \$0.12 per cwt. Several management factors contribute to this disparity. Also shown in Figure 12 are two productivity measures. The Top 25% group sells 17 percent more milk per cow and 24 percent more milk per worker than the Bottom 25%, which contributes to the bottom line.

Another area where the top profit group excels is in the NCOP. Figure 13 shows the difference in the cost of producing milk between the most and least profitable groups. In 2013, the top profit group was able to control costs better with an increase of 3 percent while the bottom group saw a 5 percent rise. The difference between the two came to \$3.12 per cwt. in 2013, which is the second smallest of the preceding five years. Interesting to note, the bottom group also received a slightly higher milk price of \$21.25 per cwt. compared to the top group's \$21.18.

Figure 13

COS	COST OF PRODUCING MILK BY PROFIT GROUPS										
	NCOP1		2009		2010		2011	2	2012	2	2013
	NGUFI					DOII0	rs per Cwt.				
	Bottom 25%	\$	18.22	\$	18.91	\$	22.53	\$	20.03	\$	21.11
	Top 25%		13.12		14.16		15.91		17.40		17.99
	Difference	\$	5.10		\$4.75	\$	6.62	\$	2.44	\$	3.12

¹Before any return on equity

Certainly, high milk production per cow influences profitability. However, Figure 14A illustrates that by itself, high production per cow does not guarantee superior profitability, as a significant number of high production farms fall in the lower profit groups. However, very few low production farms fall in the top profit group.

The importance of balancing production with total costs to achieve profitability is much more obvious (Figure 14B). As NCOP decreases, the possibility of higher profits increases on nearly a straight line. Cost control, production ability, buying savvy, labor management and wise capital spending determine the cost of production. The ability of dairy producers to consistently stay on top of these challenges determines profitability.

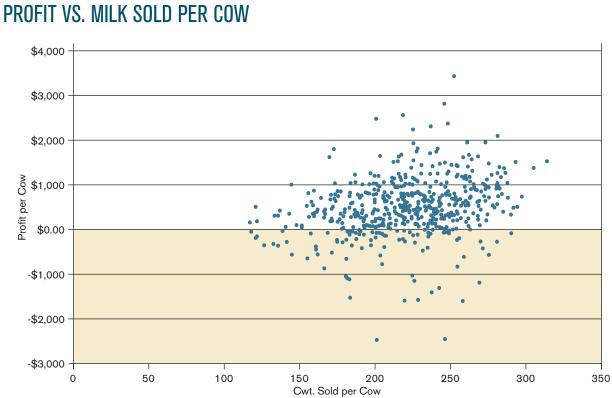


Figure 14B

PROFIT VS. NCOP

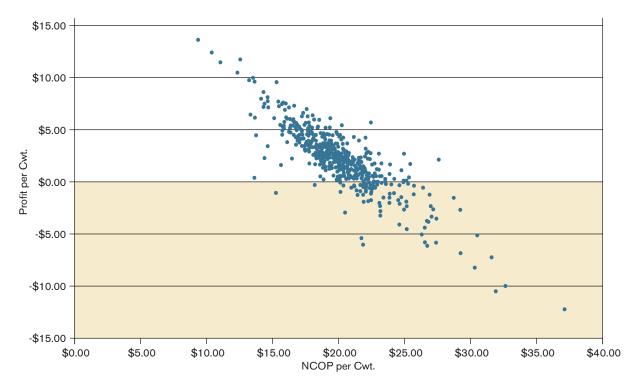


Figure 14A

NORTHEAST DAIRY FARM SUMMARY 2013

MANAGEMENT STYLE AND DAIRY PROFITS

Above average management is critical to profits, but "above average" is difficult to succinctly describe. Successful managers have been able to identify and leverage their individual management strengths on which to build a profitable dairy business. In short, these managers have developed a management strategy that fits their personalities and resources.

Figure 15

WINNING MANAGEMENT STYLES OF TOP 25%

	Great with Cows	Labor Efficient	Better Milk Price	Tight with a Buck	Balanced
Number of Farms	27	24	23	31	24
Average Number of Cows	407	593	290	272	185
Milk Sold per Cow (lbs.)	27,193	25,658	21,263	22,699	21,648
Milk Sold per Worker (lbs.)	1,071,008	1,581,269	838,540	996,885	898,686
NCOP Per Cwt.	\$17.74	\$17.16	\$20.96	\$15.41	\$19.58
Milk Price per Cwt.	\$21.13	\$21.50	\$22.12	\$20.75	\$20.79
Net Earnings per Cow	\$988	\$1,021	\$722	\$1,021	\$788
Net Earnings per Cwt.	\$3.63	\$3.98	\$3.40	\$4.50	\$3.64
Return on Assets (%)	6.6 %	7.7%	4.7 %	5.6 %	5.3 %
Percent Net Worth (%)	81%	75 %	81 %	74%	72 %

Of the 129 farms included in 2013's top profit quartile, 105 exhibited distinct management styles, while the remaining 24 farms displayed a more balanced approach, doing well in multiple areas. Figure 15 breaks down these styles of farms excelling in the corresponding management factor. For example, farms included in the Great-with-Cows group outperformed all others in producing the most milk per cow.

Great with Cows. These farmers spend more time and money on cow productivity. Average milk sold of 27,193 pounds per cow is the highest among the five styles. High production allowed them to produce and sell 1,071,008 pounds of milk per worker, second only to the Labor Efficient group.

Labor Efficient. Superior labor management and the largest herd size enabled this group to be the most labor efficient, with milk sold per worker of more than 1.5 million pounds. In addition to labor efficiency, this group reported the second highest milk sold per cow. Consisting mainly of larger farms, this management style typically gains labor efficiencies from economies of scale and high output per cow. This labor productivity is the highest in DFS history.

Better Milk Price. This group received \$22.12 per cwt. for their milk, \$0.94 more than average for the top profit group. Higher milk prices could be the result of high milk fat or protein content; negotiated premiums for quality and volume; and/or specialty markets.

Tight with a Buck. These operators excel at cost control, achieving the lowest cost of production at \$15.41 per cwt. Although milk per cow and milk per worker are below the top profit group average, these farmers have implemented tight cost control to achieve superior results. The rewards of managing costs are easily seen in the highest earnings per cow and per cwt.

Balanced. These are good, all-around managers. Instead of excelling in one aspect, these farms performed well in all areas. Although profits are less than some of the other styles, these farmers are able to respond quickly to adversity affecting their businesses. This management style is well suited to smaller farms where family members provide much of the production labor.

The common theme is that top-profit farmers have reached a profitable balance between milk production per cow and costs through a variety of management styles. At some point, farmers who are not satisfied with the returns from their operation might consider adjusting their strategy to better compete in a dynamic business climate.

DO LARGER FARMS HAVE THE EDGE ON PROFITABILITY?

Average farm sizes in the Northeast and across the country have continually increased for many decades. The DFS has concluded that profitability has more to do with successful management of all aspects of the business than any other factor, including size. However, there are strong correlations in the data regarding size of farm, efficiency, pounds of milk sold per cow, cost of production and, ultimately, profitability.

As a group, the largest-size group was by far the most profitable of the four size groups with \$664 net earnings per cow in 2013 (Figure 16). In addition, this group was:

- > The most productive on a milk-sold-per-cow and per-worker measure.
- > The lowest per-cow investor in productive assets. As a result, this group had the highest asset turnover rate.
- ➤ The lowest cost producer.

It is noteworthy that the other three size groups were represented in the top profit quartile. This is important because it shows there is opportunity to achieve superior profitability over a range of farm sizes.

In short, being large is no guarantee of profitability. Of the 65 farms in the 700+ cow group, only 32 percent were in the top profit group. There were 18 farms in this largest size group (28 percent) achieving below-average profitability (less than \$490/cow), and five had negative net earnings. Again, this is indicative that success is not just about scale.

Figure 16

FARM SIZE AND PROFITABILITY

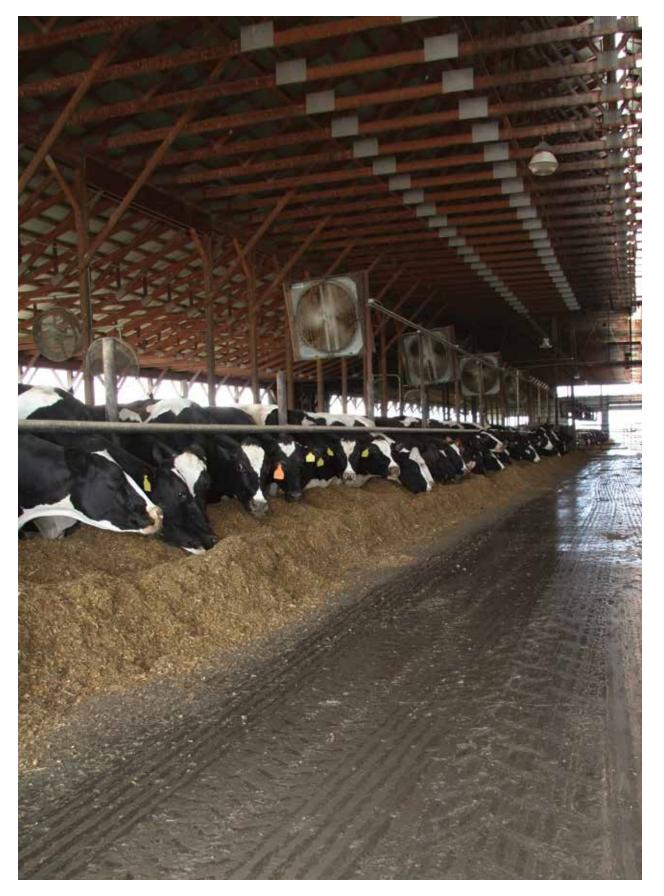
	99 Cows or Fewer	100-299 Cows	300-699 Cows	700 Cows or More
Average Number of Cows	70	175	462	1,021
Milk Sold Per Cow (lbs.)	20,133	21,762	23,985	25,287
Milk Sold Per Worker (lbs.)	628,976	942,816	1,154,093	1,253,755
Net Cost of Production per Cwt.	\$20.07	\$20.38	\$19.22	\$18.67
Milk Price per Cwt.	\$21.00	\$21.22	\$21.42	\$21.29
Assets per Cow	\$18,631	\$14,514	\$11,924	\$11,069
Asset Turnover	0.27	0.37	0.50	0.56
Percentage Net Worth	82 %	76 %	74 %	68 %
Net Earnings per Cow	\$168	\$186	\$528	\$664
Return on Assets %	1.6 %	2.1 %	5.4%	7.0 %

CONCLUSION

Northeast dairy producers are consistently getting better at sharpening the skills needed to manage through dairy cycles. Strategies are as different as individual characteristics of the farms within this study. Positioning your farm for success is crucial to meeting industry challenges. This summary presented various proven management strategies that have consistently resulted in above-average performance. Working closely with your Farm Credit loan officer and/or business consultant to assess your strengths and weaknesses and develop a strategy to position your farm to meet industry challenges is now more critical than ever.

We hope this year's Northeast Dairy Farm Summary is a useful tool for doing just that. It remains essential that dairy farmers and those who serve them continue to seek answers in order to have a healthy, economically sustainable Northeast dairy industry. The entire Farm Credit team of loan officers, farm accounting professionals and business consultants are eager and prepared to help Northeast dairy farmers achieve financial success.





FINANCIAL RECORDS

The following 17 tables present the detailed financial data on which this summary was based. These tables are organized into four sets:

- ► Tables A-1 through A-5 are COMPARISONS BETWEEN YEARS
- ➤ Tables B-1 through B-3 are DATA BY HERD SIZES
- ➤ Tables C-1 through C-6 are DATA BY PROFIT GROUPS
- Tables D-1 through D-3 are DATA BY REGIONS

Each set includes a condensed earnings worksheet, a balance sheet summary and a page of evaluation factors. The comparison-between-years also includes a trend sheet (Table A-5). Tables C-4 through C-6 cover the cost of producing milk, cash margin and debt capacity by profit groups. The 2009-to-2013 data series includes New England, New Jersey and New York farms.

Please note the following cautions to properly use this data:

- Cattle purchased for replacements are considered operating expenses, but cattle purchased for expansion are capital purchases. The accrual adjustment change in the inventory of raised livestock is calculated by subtracting purchases for expansion from the total increase in cattle inventory value.
- Depreciation is calculated by applying a standard percentage of depreciation to various asset classes in order to be able to compare consistent numbers from year to year and avoid variations driven by changes in tax laws.
- Appreciation and revaluation of capital assets do not appear in the earnings statements. They are, however, included on the balance sheets.
- Current liabilities on the balance sheet include both current debts as well as the current portion of intermediate-term and long-term liabilities.
- > The depreciation categories were combined into one single line item.
- Government payments include MILC and state program payments, but do not include significant one-time grants.
- > Supply expenses include BST costs, if used.

Your Farm Credit team of ag finance specialists encourages you to review the following financial data thoughtfully and thoroughly. It allows you to identify your strengths and weaknesses and to improve your operation for the future.

For further information, please contact your local Farm Credit office.

A NEW LOOK AT THE DFS'S EARNINGS WORKSHEETS NOW USING THE GROSS MARGIN FORMAT

Unleashing the power that resides in a business's earning worksheet provides strategic value to a business manager. For this reason, we reorganized the Dairy Farm Summary's traditional earnings worksheet by using a gross margin format.

The gross margin format splits business expenses between variable costs or cost-of-goods sold (COGS) and overhead expenses (fixed costs). Figure A shows which expenses are variable versus fixed:

Figure A: COGS (Variable) versus Overhead (Fixed) Expenses

COGS (Variable)

These costs are consumed to produce a product and are gone once the product is produced. If a farm produces more output, variable costs generally increase pro-rata for each added unit of product.

- Labor
- Purchased feed
- Crop costs (inputs plus fuel)
- · Livestock costs (supplies, breeding, vet)
- Freight & Marketing
- Custom work
- Purchased replacements

Overhead (Fixed)

These expenses result from investment in assets that are used in production, but are not consumed. If a farm produces more output with the same investment, that farm can spread these costs over more units.

- Depreciation
- Interest
- Repairs
- Property taxes
- Property & liability insurance
- Utilities
- Rent or lease
- Owner draw

These sets of expenses increase the totals on an earnings worksheet from three lines to five:

Convert from traditional format:		To gross margin format:	
Gross revenue	\$ 1.00	Gross revenue	\$ 1.00
- Expenses	\$.85	Cost of goods sold	\$.60
= Net margin	\$.15	= Gross margin	\$.40
		- Overhead expenses	\$.25
		= Net margin	\$.15

Why this change is valuable

This change is not new. Manufacturing and retail businesses routinely use the gross margin format to provide insight into business performance that is not evident on a traditional earnings worksheet:

1. COGS are the raw materials that go into making products. On a dairy farm, for example, labor, feed, crops and supplies are consumed and converted into milk. These make up most COGS on a dairy. High COGS relative to revenue leads to low gross margin and indicates poor production efficiency. It means that the farm is using more consumable inputs to produce a unit of milk as well as too much labor, feed, bedding, etc. To the business manager, gross margin (COGS) is tied to managing the most effective use of consumable inputs on the farm.

2. Fixed expenses are costs that result from equipment, facility and land investment. The "DIRTI 5" (depreciation, interest, repairs, taxes, insurance) make up most overhead expenses. High overhead expenses indicate that a dairy farm may have too much capital investment relative to the amount of milk produced. To the business manager, fixed or overhead costs are tied to managing the farm's capital asset investment.

From a management perspective, these sets of costs (and the message they deliver) are strategically different. A manager can build sound business strategy using this information. For example:

- > A low percent gross margin business generally should improve efficiency before expanding.
- A high percent gross margin business with high overhead generally needs to expand production and spread fixed costs to more units of output in order to improve profitability.
- A low percent gross margin business with low overhead perhaps should consider investing in facilities and/ or equipment to support better efficiency and, in turn, improve gross margin and profitability.

A traditional earnings statement does not provide strategic insight into what is going on with a business beyond whether it is profitable not. The gross margin format immediately unleashes significant decision-making power that the business manager can use to improve business performance. Consider the following:

Figure B: Comparison of Top and Bottom 25 Percent Profit Groups

Traditional Format			Gross Margin Format	t	
	TOP 25%	BOTTOM 25%		TOP 25%	BOTTOM 25%
Gross revenue	100%	100%	Gross Revenue	100%	100%
- Expenses	84%	97%	- COGS	65%	77%
= Net farm earnings	16%	3%	= Gross margin	35%	23%
			- Overhead expenses	19%	20%
			= Net farm earnings	16%	3%

Looking at the traditional format, we can see that the Top 25 percent profit group is much more profitable than the bottom 25 percent group. But we cannot tell any more than that.

With an earnings worksheet in the gross margin format, we begin to see strategic advantage that exists with the top group over the bottom group.

Most of the advantage results from improved production efficiency. The top farms have 12 more cents of each milk check dollar (35 percent versus 23 percent) left after paying variable inputs and available to cover overhead and generate profit.

In addition, top farms made somewhat better use of the equipment, buildings and land to produce milk, with a one percent advantage over the bottom farms (19 percent of farm production versus 20). The top farms made more effective use of capital investments by attaining increased productivity from fixed investments. This isn't a large difference, but it adds to the bottom line.

Ultimately, getting the most out of COGS and fixed expenses is important for profitability. Looking at financial records in the gross margin format can help manage both costs.

TABLE A-1.

COMPARISON BETWEEN YEARS-EARNINGS WORKSHEET

		2009	_	2010	_	2011		2012		2013
Number of Farms		544		524		532		504		517
Average Number of Cows		277		306		326		343		315
Receipts										
Milk Sales	\$	849,215	\$	1,235,483	\$	1,631,221	\$	1,594,407	\$	1,600,058
Cattle Sales	Ť	42,725	Ŷ	59,075	Ŧ	86,137	Ŧ	112,841	Ŧ	96,009
Crop Sales		23,782		61,818		65,395		98,865		52,877
Government Payments ¹		20,102		01,010		00,000		00,000		28,185
Other		105,029		56,094		65,441		88,846		54,794
CASH RECEIPTS	\$	1,020,751	\$	1,412,470	\$	1,848,194	\$	1,894,959	\$	1,831,923
Accrual Adjustments										
+ Change in Inventory-Raised Livestock	\$	25,055	\$	21,431	\$	12,927	\$	22,814	\$	19,198
VALUE OF FARM PRODUCTION (a)	\$	1,045,806	\$	1,433,901	\$	1,861,121	\$	1,917,773	\$	1,851,121
COST OF GOODS SOLD										
Chemicals & Sprays	\$	13,346		\$13,733		\$17,202		\$18,266		\$18,525
Custom Hire		35,469		44,716		48,485		50,175		48,814
Purchased Feed		343,271		389,544		514,478		606,162		582,279
Fertilizer & Lime		33,246		35,966		48,540		63,550		61,429
Freight & Marketing		57,543		65,645		65,960		75,749		71,550
Gasoline, Fuel & Oil		41,983		54,964		81,067		86,746		78,925
Hired Labor		177,165		195,873		224,937		247,698		232,019
Seed & Plants		22,397		27,267		30,883		40,965		40,896
Supplies		64,877		76,957		82,408		96,904		83,997
Veterinary, Medicine & Breeding		34,861		39,649		63,570		66,622		62,360
Other		34,594		37,819		34,968		27,262		17,310
Cow Replacements		3,046	_	3,441		4,063		3,848		4,121
Total Cost of Goods Sold	\$	861,798	\$	985,574	\$	1,216,561	\$	1,383,947	\$	1,302,225
Gross Margin	\$	184,008	\$	448,327	\$	644,560	\$	533,826	\$	548,896
OVERHEAD										
Insurance		15,954		17,242		19,944		20,196		19,464
Interest		34,011		40,519		39,733		40,140		37,049
Rent		19,113		23,144		26,920		27,910		29,358
Repairs		61,789		75,888		103,965		104,147		104,372
Property & Misc. Taxes		16,027		17,605		19,533		21,464		22,402
Utilities		27,839		32,751		35,328		35,014		35,256
Accrual Adjustments										
+ Depreciation		81,399	_	86,142		100,598		106,684		107,267
Total Overhead Expenses	\$	256,132	\$	293,291	\$	346,021	\$	355,555	\$	355,168
Total Farm Production Costs (b)	\$	1,117,930	\$	1,278,865	\$	1,562,582	\$	1,739,502	\$	1,657,393
NET FARM EARNINGS (a) - (b)	\$	-72,124	\$	155,036	\$	298,539	\$	178,271	\$	193,728
+ Net Nonfarm Income		10,981		12,512		13,437		14,924		17,799
- Family Living & Income Taxes		45,681	-	46,587	-	52,147		51,371	-	56,837
NET EARNINGS	\$	-106,824	\$	120,961	\$	259,829	\$	141,824	\$	154,690

Note: Expenses are adjusted for changes in accounts payable, prepaid expenses and supply inventories to remove the effects of tax planning and reflect only one year's expenses.

¹ Prior to 2013, government payments have been included in "other."

TABLE A-2.

COMPARISON BETWEEN YEARS-EARNINGS WORKSHEET PER CWT.

	 2009		2010		2011		2012		2013
Number of Farms	544		524		532		504		517
Average Number of Cows	277		306		326		343		315
Receipts				DOLLARS P	PER CWT. OF M	IILK			
Milk Sales	\$ 13.80	\$	17.70	\$	21.53	\$	20.01	\$	21.30
Cattle Sales	0.69		0.85		1.14		1.42		1.28
Crop Sales	0.39		0.89		0.86		1.24		0.70
Government Payments									0.38
Other	1.70		0.79		0.86		1.11		0.73
CASH RECEIPTS	\$ 16.58	\$	20.23	\$	24.39	\$	23.7	\$	24.39
Accrual Adjustments									
+ Change in Inventory-Raised Livestock	\$ 0.41	\$	0.31	\$	0.17	\$	0.29	\$	0.26
VALUE OF FARM PRODUCTION (a)	\$ 16.99	<u>\$</u> \$	20.54	<u>\$</u> \$	24.56	<u>\$</u> \$	24.07	<u>\$</u> \$	24.64
COST OF GOODS SOLD									
Chemicals & Sprays	\$ 0.22	\$	0.20	\$	0.23	\$	0.23	\$	0.25
Custom Hire	0.58		0.64		0.64		0.63		0.65
Purchased Feed	5.58		5.58		6.79		7.61		7.75
Fertilizer & Lime	0.54		0.52		0.64		0.80		0.82
Freight & Marketing	0.93		0.94		0.87		0.95		0.95
Gasoline, Fuel & Oil	0.68		0.79		1.07		1.09		1.05
Hired Labor	2.88		2.81		2.97		3.11		3.09
Seed & Plants	0.36		0.39		0.41		0.51		0.54
Supplies	1.05		1.10		1.09		1.21		1.12
Veterinary, Medicine & Breeding	0.57		0.57		0.84		0.84		0.83
Other	0.57		0.53		0.46		0.34		0.23
Cow Replacements	0.05		0.05		0.05		0.05		0.05
Total Cost of Goods Sold	\$ 14.01	\$	14.12	\$	16.06	\$	17.37	\$	17.34
Gross Margin	\$ 2.98	\$	6.42	\$	8.50	\$	6.70	\$	7.31
OVERHEAD									
Insurance	0.26		0.25		0.26		0.25		0.26
Interest	0.55		0.58		0.52		0.50		0.49
Rent	0.31		0.33		0.36		0.35		0.39
Repairs	1.00		1.09		1.37		1.31		1.39
Property & Misc. Taxes	0.26		0.25		0.26		0.27		0.30
Utilities	0.45		0.47		0.47		0.44		0.47
Accrual Adjustments									
+ Depreciation	1.32		1.23		1.33		1.34		1.43
Total Overhead Expenses	\$ 4.15	\$	4.20	\$	4.57	\$	4.46	\$	4.73
Total Farm Production Costs (b)	\$ 18.16	\$	18.32	\$	20.63	\$	21.83	\$	22.06
NET FARM EARNINGS (a) - (b)	\$ -1.17	\$	2.22	\$	3.93	\$	2.24	\$	2.58
+ Net Nonfarm Income	0.18		0.18		0.18		0.18		0.24
- Family Living & Income Taxes	 0.74		0.67		0.69		0.60		0.76
NET EARNINGS	\$ -1.73	\$	1.73	\$	3.42	\$	1.82	\$	2.06

Note: Expenses adjusted for changes in accounts payable, prepaid expenses and supply inventories to remove the effects of tax planning and reflect only one year's expenses.

TABLE A-3.

COMPARISON BETWEEN YEARS-BALANCE SHEET SUMMARY - DECEMBER 31

		2009	 2010		2011	 2012	 2013
Number of Farms		544	524		532	504	517
Average Number of Cows		277	306		326	343	315
Assets				DOLL	ARS PER FARM		
Livestock	\$	624,350	\$ 687,340	\$	752,107	\$ 788,849	\$ 720,116
Feed & Crops		232,653	280,216		328,481	394,507	356,717
Machinery & Equipment		521,389	560,602		662,191	699,551	725,365
Farm–Land & Buildings		1,210,781	1,345,946		1,422,083	1,696,332	1,675,190
All Other		267,604	 317,016		532,822	 472,771	 474,546
TOTAL ASSETS	\$	2,856,777	\$ 3,191,120	\$	3,697,684	\$ 4,052,010	\$ 3,951,934
TOTAL LIABILITIES	\$	924,444	\$ 1,021,138	\$	1,032,076	\$ 1,156,617	\$ 1,066,046
TOTAL NET WORTH	\$	1,932,333	\$ 2,169,982	\$	2,665,608	\$ 2,895,393	\$ 2,885,888
Assets				DOLL	ARS PER COW		
Livestock	\$	2,254	\$ 2,246	\$	2,307	\$ 2,300	\$ 2,286
Feed & Crops		840	916		1,008	1,150	1,132
Machinery & Equipment		1,882	1,832		2,031	2,040	2,303
Farm-Land & Buildings		4,372	4,398		4,362	4,946	5,141
All Other		965	 1,036		1,634	 1,378	 1,684
TOTAL ASSETS	\$	10,313	\$ 10,428	\$	11,342	\$ 11,813	\$ 12,546
TOTAL LIABILITIES	\$	3,337	\$ 3,337	\$	3,164	\$ 3,372	\$ 3,384
TOTAL NET WORTH	\$	6,976	\$ 7,091	\$	8,178	\$ 8,441	\$ 9,162
Assets	_				PER CWT.OF MIL		
Livestock	\$	10.14	\$ 9.85	\$	9.93	\$ 9.90	\$ 9.59
Feed & Crops		3.78	4.01		4.33	4.95	4.75
Machinery & Equipment		8.48	8.03		8.74	8.78	9.66
Farm–Land & Buildings		19.67	19.29		18.77	21.29	22.30
All Other		4.35	 4.54		7.03	 5.93	 6.32
TOTAL ASSETS	\$	46.42	\$ 45.72	\$	48.80	\$ 50.85	\$ 52.61
TOTAL LIABILITIES	\$	15.02	\$ 14.63	\$	13.62	\$ 14.51	\$ 14.19
TOTAL NET WORTH	\$	31.40	\$ 31.09	\$	35.18	\$ 36.34	\$ 38.42
PERCENT NET WORTH		68%	68%		72%	72%	73%

TABLE A-4.

COMPARISON BETWEEN YEARS-EVALUATION FACTORS

	 2009	 2010	 2011	 2012	 2013
Number of Farms	544	524	532	513	517
Average Number of Cows	277	306	326	339	315
Worker Equivalents	6.0	7.0	7.0	7.2	6.8
Cows Per Worker	46	44	47	47	46
Pounds of Milk Sold Per Worker	1,025,783	997,100	1,085,617	1,115,785	1,097,288
Pounds of Milk Sold	6,154,700	6,979,700	7,577,606	8,078,285	7,512,009
Pounds of Milk Sold Per Cow	22,219	22,809	23,244	23,552	23,848
Milk Price Per Cwt.	\$ 13.80	\$ 17.70	\$ 21.53	\$ 19.74	\$ 21.30
Total Crop Acres	653	714	769	822	766
Crop Acres Per Cow	2.4	2.3	2.4	2.4	2.4
Feed Cost Per Cow	\$ 1,239	\$ 1,273	\$ 1,578	\$ 1,767	\$ 1,849
Feed as a Percent of Milk Sales	40%	32%	32%	38%	36%
Feed & Crop Expense Per Cow ¹	\$ 1,488	\$ 1,525	\$ 1,875	\$ 2,123	\$ 2,233
Feed & Crop Expense Per Cwt.	\$ 6.70	\$ 6.69	\$ 8.07	\$ 9.01	\$ 9.36
Machinery Costs Per Cow ²	\$ 667	\$ 723	\$ 869	\$ 1,016	\$ 910
Machinery Costs Per Cwt.	\$ 3.00	\$ 3.17	\$ 3.74	\$ 4.31	\$ 3.82
Labor & Family Living Per Cow	\$ 796	\$ 788	\$ 849	\$ 863	\$ 917
Labor & Family Living Per Cwt.	\$ 3.58	\$ 3.45	\$ 3.65	\$ 3.66	\$ 3.85
Assets Per Cow	\$ 10,313	\$ 10,428	\$ 11,342	\$ 11,408	\$ 12,546
Debt Per Cow	\$ 3,337	\$ 3,337	\$ 3,164	\$ 3,136	\$ 3,384
Net Worth Per Cow	\$ 6,976	\$ 7,091	\$ 8,178	\$ 8,272	\$ 9,162
Percent Net Worth	68%	68%	72%	72%	73%

¹ Feed & Crop Expense = Feed + Seed & Plants + Fertilizer + Chemicals & Spray

² Machinery Costs = Machinery Repairs + Fuel & Oil + Custom Hire + Machinery & Equipment Depreciation

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TABLE A-5.

COMPARISON BETWEEN YEARS-TREND ANALYSIS

ADJUSTED FINANCIAL Condition as of december 31	2009		2010		2011		2012		2013
Current Assets	\$ 375,649	\$	451,846	\$	576,196	\$	586,106	\$	621,951
Intermediate Assets	1,263,302		1,384,848		1,582,712		1,589,227		1,642,957
Fixed Assets	1,217,826		1,354,426		1,538,776		1,568,586		1,687,026
TOTAL ASSETS	\$ 2,856,777	\$	3,191,120	\$	3,697,684	\$	3,743,919	\$	3,951,934
Change (+ or -) from Prior Years	\$ -10,875	\$	334,343	\$	506,564	\$	46,235	\$	208,015
Current Liabilities	\$ 190,121	\$1	92,897	\$	209,387	\$	207,872	\$	219,220
Intermediate Liabilities	414,998		471,119		426,589		439,020		430,905
Long-Term Liabilities	 319,325		357,122		396,100		417,587		415,921
TOTAL LIABILITIES	\$ 924,444	\$	1,021,138	\$	1,032,076	\$	1,064,479	\$	1,066,046
Change (+ or -) from Prior Years	\$ 127,465	\$	96,694	\$	10,938	\$	32,403	\$	1,567
NET WORTH	\$ 1,932,333	\$	2,169,982	\$	2,665,608	\$	2,679,440	\$	2,885,888
Change (+ or -) from Prior Years	\$ -138,340	\$	237,649	\$	495,626	\$	13,832	\$	206,448
% Net Worth	68%		68%		72%		72%		73%
I & E Farm (Cash Basis)	 2009		2010		2011		2012		2013
Sales - Milk	\$ 849,215	\$	1,235,483	\$	1,631,221	\$	1,594,407	\$	1,600,058
Sales - Secondary Products	42,725		59,075		86,137		112,841		96,009
Other Farm Income	128,811		117,912		130,836		187,711		135,856
TOTAL FARM INCOME	\$ 1,020,751	\$	1,412,470	\$	1,848,194	\$	1,894,959	\$	1,831,923
FARM EXPENSES	\$ 1,036,531	\$	1,192,723	\$	1,461,984	\$	1,632,818	\$	1,550,126
NET FARM INCOME	\$ -15,780	\$	219,747	\$	386,210	\$	262,141	\$	281,797
ADD: Interest	\$ 34,011	\$	40,519	\$	39,733	<u>\$</u> \$	40,140	\$	37,049
TOTAL AVAILABLE - Farm	\$ 18,231	\$	260,266	\$	425,943	\$	302,281	\$	318,846
ADD: Net Nonfarm Income	\$ 10,981	\$	12,512	\$	13,437	\$	31,690	\$	17,799
Sale Capital Assets	\$ 9,594	\$	15,407	\$	16,436	\$	25,406	\$	14,251
TOTAL FUNDS AVAILABLE (a)	\$ 38,806	\$	288,185	\$	455,816	\$	359,377	\$	350,896
Family Living + Income Taxes	\$ 45,681	\$	46,587	\$	52,147	\$	51,371	\$	56,837
Debt Service Requirement	\$ 141,497	\$	162,520	\$	175,259	\$	183,882	\$	180,421
TOTAL FUNDS REQUIRED (b)		*	000 407	+		+		+	007050
	\$ 187,178	\$	209,107	\$	227,406	\$	235,253	\$	237,258

TABLE B-1.

2013 DATA BY HERD SIZE-EARNINGS WORKSHEET

	HERD SIZE											
		OCOWS FEWER		00-299 COWS	30	00-699 COWS	700 COWS OR MORE		ALL FARMS			
Number of Farms		144		194		114		65		517		
Average Number of Cows		70		175		462		1021		315		
Receipts					DOLLAF	RS PER COW						
Milk Sales	\$	4,209	\$	4,621	\$	5,139	\$	5,384	\$	5,080		
Cattle Sales		293		292		291		323		305		
Crop Sales		226		134		220		135		168		
Government Payments		102		133		82		71		89		
Other		169		159		168		186		174		
CASH RECEIPTS	\$	4,999	\$	5,339	\$	5,900	\$	6,099	\$	5,816		
Accrual Adjustments												
+ Change in Inventory-Raised Livestock	<u>\$</u> \$	-9	<u>\$</u> \$	48	\$	59	<u>\$</u> \$	79	<u>\$</u> \$	61		
VALUE OF FARM PRODUCTION (a)	\$	4,990	\$	5,387	\$	5,959	\$	6,178	\$	5,877		
COST OF GOODS SOLD												
Chemicals & Sprays	\$	52	\$	58	\$	47	\$	69	\$	59		
Custom Hire		90		150		173		153		155		
Purchased Feed		1,380		1,636		1,858		2,015		1,849		
Fertilizer & Lime		173		193		208		188		195		
Freight & Marketing		216		219		232		228		227		
Gasoline, Fuel & Oil		248		252		255		246		251		
Hired Labor		373		634		781		806		737		
Seed & Plants		127		123		140		126		130		
Supplies		262		269		279		256		267		
Veterinary, Medicine & Breeding		154		176		189		222		198		
Other		87		65		83		28		55		
Cow Replacements		16		30		11		5		13		
Total Cost of Goods Sold	\$	3,178	\$	3,805	\$	4,256	\$	4,342	\$	4,136		
Gross Margin	\$	1,812	\$	1,582	\$	1,703	\$	1,836	\$	1,741		
OVERHEAD												
Insurance		85		71		60		54		62		
Interest		131		124		113		115		118		
Rent		50		89		93		102		93		
Repairs		321		304		328		348		331		
Property & Misc. Taxes		122		82		70		58		71		
Utilities		131		111		111		110		112		
Accrual Adjustments												
+ Depreciation		512		413		315		296		341		
Total Overhead Expenses	\$	1,352	\$	1,194	\$	1,090	\$	1,083	\$	1,128		
Total Farm Production Costs (b)	\$	4,530	\$	4,999	\$	5,346	\$	5,425	\$	5,264		
NET FARM EARNINGS (a) - (b)	\$	460	\$	388	\$	613	\$	753	\$	613		
+ Net Nonfarm Income		229		97		59		7		57		
- Family Living & Income Taxes		521		299		144		96		180		
NET EARNINGS	\$	168	\$	186	\$	528	\$	664	\$	490		

Note: Expenses adjusted for changes in accounts payable, prepaid expenses and supply inventories to remove the effects of tax planning and reflect only one year's expenses.

TABLE B-2.

2013 DATA BY HERD SIZE-BALANCE SHEET SUMMARY

DECEMBER 31, 2013

		HERD SIZE							
	9 COWS R FEWER		100-299 COWS		00-699 COWS		O COWS R MORE	I	ALL FARMS
Number of Farms	 144		194		114		65		517
Average Number of Cows	70		175		462		1021		315
				ASSET	S PER COW				
Cash & Accounts Receivable	\$ 659	\$	579	\$	572	\$	571	\$	579
Feed & Crop Inventory	1,049		1,162		1,177		1,099		1,135
Supplies & Prepaid Expenses	116		144		192		223		190
Other Current Assets	 204		58		96		34		70
TOTAL CURRENT ASSETS	\$ 2,028	\$	1,943	\$	2,037	\$	1,927	\$	1,974
Dairy Livestock	\$ 2,214	\$	2,278	\$	2,234	\$	2,335	\$	2,286
Machinery & Equipment	3,881		2,944		2,106		1,884		2,303
Other Intermediate Assets	 1,371		852		583		432		627
TOTAL INTERMEDIATE ASSETS	\$ 7,466	\$	6,074	\$	4,923	\$	4,651	\$	5,216
Farm Real Estate	\$ 8,732	\$	6,112	\$	4,797	\$	4,099	\$	4,946
Other Fixed Assets	 405		385		167		392		410
TOTAL FIXED ASSETS	\$ 9,137	\$	6,497	\$	4,964	\$	4,491	\$	5,356
TOTAL ASSETS	\$ 18,631	\$	14,514	\$	11,924	\$	11,069	\$	12,546
				LIABILIT	IES PER COW				
Accounts Payable	\$ 73	\$	119	\$	99	\$	70	\$	90
Farm Credit Short-Term Loans	74		124		137		212		161
Other Current Liabilities	 436		456		419		460		445
TOTAL CURRENT LIABILITIES	\$ 583	\$	699	\$	655	\$	742	\$	696
Farm Credit Intermediate Term	\$ 866	\$	944	\$	1,068	\$	1,257	\$	1,108
Other Intermediate Liabilities	 458		373		231		194		260
TOTAL INTERMEDIATE LIABILITIES	\$ 1,324	\$	1,317	\$	1,299		\$1,451	\$	1,368
Farm Credit Long-Term Real Estate	\$ 1,122	\$	1,106	\$	1,035	\$	1,245	\$	1,142
Other Long-Term Liabilities	 314		298		154		115		178
TOTAL LONG-TERM LIABILITIES	\$ 1,436	\$	1,404	\$	1,189	\$	1,360	\$	1,320
TOTAL LIABILITIES	\$ 3,343	\$	3,420	\$	3,143	\$	3,553	\$	3,384
	 				RTH PER COW				
OWNER'S NET WORTH	\$ 15,288	\$	11,094	\$	8,781	\$	7,516	\$	9,162
TOTAL LIABILITIES & NET WORTH	\$ 18,631	\$	14,514	\$	11,924	\$	11,069	\$	12,546
PERCENT NET WORTH	82%		76%		74%		68%		73%

TABLE B-3.

2013 DATA BY HERD SIZE-EVALUATION FACTORS

	HERD SIZE									
	9	9 COWS	1	100-299	3	00-699	70) COWS		ALL
	OF	FEWER		COWS		COWS	OF	MORE		FARMS
Number of Farms		144		194		114		65		517
Average Number of Cows		70		175		462		1,021		315
Worker Equivalents		2.2		4.0		9.6		20.6		6.8
Cows Per Worker		31		43		48		50		46
Pounds of Milk Sold Per Worker		628,976		942,816		1,154,093		1,253,755		1,097,288
Pounds of Milk Sold Per Farm		1,402,616		3,808,977		11,079,293	2	5,814,815		7,512,009
Pounds of Milk Sold Per Cow		20,133		21,762		23,985		25,287		23,848
Milk Price Per Cwt.	\$	21.00	\$	21.22	\$	21.42	\$	21.29	\$	21.30
Total Crop Acres		259		493		1,073		2,092		766
Crop Acres Per Cow		3.7		2.8		2.3		2.0		2.4
Crop Acres Per Worker		118		123		112		102		113
Feed Cost Per Cow	\$	1,380	\$	1,636	\$	1,858	\$	2,015	\$	1,849
Feed Cost Per Cwt.	\$	6.85	\$	7.52	\$	7.75	\$	7.97	\$	7.75
Feed as a Percent of Milk Sales		33%		35%		36%		37%		36%
Feed & Crop Expense Per Cow ¹		1,732		2,010		2,253		2,398		2,233
Feed & Crop Expense Per Cwt.	\$	8.60	\$	9.24	\$	9.39	\$	9.48	\$	9.36
Machinery Cost Per Cow ²	\$	963	\$	940	\$	910	\$	882	\$	910
Machinery Costs Per Cwt.	\$	4.78	\$	4.32	\$	3.80	\$	3.49	\$	3.82
Labor & Family Living Per Cow	\$	894	\$	933	\$	925	\$	902	\$	917
Labor & Family Living Per Cwt.	\$	4.44	\$	4.29	\$	3.86	\$	3.57	\$	3.85
Assets Per Cow	\$	18,631	\$	14,514	\$	11,924	\$	11,069	\$	12,546
Debt Per Cow	\$	3,343	\$	3,420	\$	3,143	\$	3,553	\$	3,384
Net Worth Per Cow	\$	15,288	\$	11,094	\$	8,781	\$	7,516	\$	9,162
Percent Return on Assets ³		1.6%		2.1%		5.4%		7.0%		4.8%
Percent Return on Equity ⁴		1.1%		1.7%		6.0%		8.8%		5.3%

¹Feed & Crop Expense = Feed + Seed & Plants + Fertilizer + Chemicals & Sprays.

²Machinery Cost = Machinery Repairs + Custom Hire + Fuel & Oil + Machinery & Equipment Depreciation.

³Return on Assets = (Net Earnings + Interest) / Average Farm Assets.

⁴Return on Equity = Net Earnings / Average Farm Net Worth.

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TABLE C-1.

2012 DATA BY PROFIT GROUPS-EARNINGS WORKSHEET

			PROFIT GROUP							
	В	OTTOM	1	THIRD		COND		TOP		ALL
		25%		25%		25%		25%	F/	RMS
Number of Farms		130		129		129		129		517
Average Number of Cows		218		370		362		311		315
Receipts					DOLLAF	RS PER COW				
Milk Sales	\$	4,582	\$	5,000	\$	5,205	\$	5,359	\$	5,080
Cattle Sales		268		296		323		319		305
Crop Sales		150		135		140		250		168
Government Payments		96		83		80		104		89
Other		138		182		146		221		174
CASH RECEIPTS	\$	5,234	\$	5,696	\$	5,894	\$	6,253	\$	5,816
Accrual Adjustments										
+ Change in Inventory-Raised Livestock	\$	64	\$	70	\$	55	\$	55	\$	61
VALUE OF FARM PRODUCTION (a)	<u>\$</u> \$	5,298	<u>\$</u> \$	5,766	<u>\$</u> \$	5,949	<u>\$</u> \$	6,308	<u>\$</u>	5,877
COST OF GOODS SOLD										
Chemicals & Sprays	\$	53	\$	51	\$	64	\$	65	\$	59
Custom Hire		202		176		131		124		155
Purchased Feed		1,839		1,874		1,885		1,778		1,849
Fertilizer & Lime		168		197		197		209		195
Freight & Marketing		224		238		231		212		227
Gasoline, Fuel & Oil		257		254		248		244		251
Hired Labor		725		734		737		745		737
Seed & Plants		111		122		138		142		130
Supplies		280		267		267		256		267
Veterinary, Medicine & Breeding		176		204		205		198		198
Other		11		8		64		126		55
Cow Replacements		32		12		9		7		13
Total Cost of Goods Sold	\$	4,078	\$	4,137	\$	4,176	\$	4,106	\$	4,136
Gross Margin	\$	1,220	\$	1,629	\$	1,773	\$	2,202	\$	1,741
OVERHEAD	φ	1,220	φ	1,020	φ	1,110	φ	2,202	φ	1,141
Insurance		62		56		64		65		62
Interest		120		125		124		100		118
Rent		96		95		81		103		93
Repairs		284		335		340		349		331
Property & Misc. Taxes		73		66		70		77		71
Utilities		114		109		114		112		112
Accrual Adjustments										
+ Depreciation		3 01		309		338		407		341
Total Overhead Expenses	\$	1,050	\$	1,095	\$	1,131	\$	1,213	\$	1,128
Total Farm Production Costs (b)	\$	5,128	\$	5,232	\$	5,307	\$	5,319	\$	5,264
NET FARM EARNINGS (a) - (b)	\$	170	\$	534	\$	642	\$	989	\$	613
+ Net Nonfarm Income	•	44		37		61		83		57
- Family Living & Income Taxes		188		167		159		215		180
NET EARNINGS	\$	26	\$	404	\$	544	\$	857	\$	490

Note: Expenses adjusted for changes in accounts payable, prepaid expenses and supply inventories to remove the effects of tax planning and reflect only one year's expenses.

TABLE C-2.

2013 DATA BY PROFIT GROUPS-BALANCE SHEET SUMMARY

			Decell	IDEI 31, 2013						
	PROFIT GROUP									
	В	OTTOM 25%		THIRD 25%	SECOND 25%		TOP 25%		ALL FARMS	
Number of Farms		130		129		129		129		517
Average Number of Cows		218		370		362		311		315
					ASSET	S PER COW				
Cash & Accounts Receivable	\$	447	\$	508	\$	582	\$	751	\$	579
Feed & Crop Inventory		1,100		1,104		1,107		1,226		1,135
Supplies & Prepaid Expenses		135		161		153		306		190
Other Current Assets		33		111		53		65		70
TOTAL CURRENT ASSETS	\$	1,715	\$	1,884	\$	1,895	\$	2,348	\$	1,974
Dairy Livestock	\$	2,189	\$	2,263	\$	2,406	\$	2,235	\$	2,286
Machinery & Equipment		1,981		2,010		2,274		2,898		2,303
Other Intermediate Assets		638		573		534		789		627
TOTAL INTERMEDIATE ASSETS	\$	4,808	\$	4,846	\$	5,214	\$	5,922	\$	5,216
Farm Real Estate	\$	4,832	\$	4,564	\$	4,805		\$5,582	\$	4,946
Other Fixed Assets		288		458		375		518		410
TOTAL FIXED ASSETS	\$	5,120	\$	5,022	\$	5,180	\$	6,100	\$	5,356
TOTAL ASSETS		\$11,643	\$	11,752	\$	12,289	\$	14,370	\$	12,546
					LIABILIT	TES PER COW				
Accounts Payable	\$	129	\$	121	\$	70	\$	47	\$	90
Farm Credit Short-Term Loans		164		227		104		147		161
Other Current Liabilities		382		442		479		453		445
TOTAL CURRENT LIABILITIES	\$	675	\$	790	\$	653	\$	647	\$	696
Farm Credit Intermediate Term	\$	980	\$	1,099	\$	1,082	\$	1,234	\$	1,108
Other Intermediate Liabilities		288		236		268		258		260
TOTAL INTERMEDIATE LIABILITIES	\$	1,268	\$	1,335	\$	1,350	\$	1,492	\$	1,368
Farm Credit Long-Term Real Estate	\$	1,047	\$	1,256	\$	1,316	\$	870	\$	1,142
Other Long-Term Liabilities		259		177		116		194		178
TOTAL LONG-TERM LIABILITES	\$	1,306	\$	1,433	\$	1,432	\$	1,064	\$	1,320
TOTAL LIABILITIES	\$	3,249	\$	3,558	\$	3,435	\$	3,203	\$	3,384
					NET WO	RTH PER COW				
OWNER'S NET WORTH	\$	8,394	\$	8,194	\$	8,854	\$	11,167	\$	9,162
TOTAL LIABILITIES & NET WORTH	\$	11,643	\$	11,752	\$	12,289	\$	14,370	\$	12,546
PERCENT NET WORTH		72%		70%		72%		78%		73%

December 31, 2013

TABLE C-3.

2013 DATA BY PROFIT GROUPS-EVALUATION FACTORS

	PROFIT GROUP									
	В	BOTTOM 25%		THIRD 25%		SECOND 25%		TOP 25%		ALL FARMS
Number of Farms		130		129		129		129	517	
Average Number of Cows		218		370		362		311		315
Worker Equivalents		4.94		7.84		7.93		6.67		6.80
Cows Per Worker		44		47		46		47		46
Pounds of Milk Sold Per Worker		951,497		1,099,680		1,116,026		1,179,549		1,097,288
Pounds of Milk Sold Per Farm		4,700,395		8,621,491		8,850,086		7,867,592		7,512,009
Pounds of Milk Sold Per Cow		21,585		23,284		24,421		25,287		23,848
Milk Price Per Cwt.	\$	21.25	\$	21.46	\$	21.29	\$	21.18	\$	21.30
Total Crop Acres		546		859		827		797		766
Crop Acres Per Cow		2.5		2.3		2.3		2.6		2.4
Crop Acres Per Worker		111		110		104		119		113
Feed Cost Per Cow	\$	1,839	\$	1,874	\$	1,885	\$	1,778	\$	1,849
Feed Cost Per Cwt.	\$	8.52	\$	8.05	\$	7.72	\$	7.03	\$	7.75
Feed as a Percent of Milk Sales		40%		37%		36%		33%		36%
Feed & Crop Expense Per Cow ¹		2,171		2,244		2,284		2,194		2,233
Feed & Crop Expense Per Cwt.	\$	10.06	\$	9.64	\$	9.35	\$	8.68	\$	9.36
Machinery Cost Per Cow ²	\$	898	\$	913	\$	888	\$	935	\$	910
Machinery Cost Per Cwt.	\$	4.16	\$	3.92	\$	3.63	\$	3.70	\$	3.82
Labor & Family Living Per Cow	\$	913	\$	901	\$	896	\$	960	\$	917
Labor & Family Living Per Cwt.	\$	4.23	\$	3.87	\$	3.67	\$	3.80	\$	3.85
Assets Per Cow	\$	11,643	\$	11,752	\$	12,289	\$	14,370	\$	12,546
Debt Per Cow	\$	3,249	\$	3,558	\$	3,435	\$	3,203	\$	3,384
Net Worth Per Cow	\$	8,394	\$	8,194	\$	8,854	\$	11,167	\$	9,162
Percent Return on Assets ³		0.8%		4.5%		5.4%		6.7%		4.8%
Percent Return on Equity ⁴		0.3%		4.9%		6.1%		7.7%		5.3%

¹ Feed & Crop Expense = Feed + Seed & Plants + Fertilizer + Chemicals & Spray

² Machinery Cost = Machinery Repairs + Custom Hire + Fuel & Oil + Machinery & Equipment Depreciation

³ Return on Assets = (Net Earnings + Interest) / Average Farm Assets

⁴ Return on Equity = Net Earnings / Average Farm Net Worth

2013 COST OF PRODUCING MILK BY PROFIT GROUPS

	ottom 25%		l Farm verage	Top 25%	
		DOLLAR	S PER CWT.		
Feed	\$ 8.52	\$	7.75	\$	7.31
Labor	\$ 3.36	\$	3.09	\$	2.91
Interest	\$ 0.56	\$	0.49	\$	0.47
Trucking (Marketing)	\$ 1.04	\$	0.95	\$	0.90
Crop	\$ 1.54	\$	1.61	\$	1.36
Other	\$ 7.35	\$	6.74	\$	6.36
Adjusted Cash Operating Expenses	\$ 22.36		20.63	\$	19.31
+ Depreciation	1.39		1.43		1.35
+ Family Living	0.87		0.76		0.71
Total Costs	\$ 24.63	\$	22.82	\$	21.37
– Non-milk Income ¹	 3.52		3.59		3.38
Net Cost of Production ²	\$ 21.11	\$	19.23	\$	17.99

¹ Nonmilk income includes accrual basis cattle, crop, other income and nonfarm income.

² Before any return on equity

TABLE C-5.

2013 CASH MARGINS BY PROFIT GROUPS

		2009		2010		2011		2012		2013
Bottom Profit Group Actual Milk Price	\$	13.70	\$	17.59	\$	21.61	Ŝ	19.81	\$	21.25
Break-Even Milk Price	φ	18.24	φ	18.30	φ	21.59	Ψ	20.43	φ	21.48
CASH MARGIN	\$	-4.54	\$	-0.71	\$	0.02	\$	-0.62	\$	-0.23
Top Profit Group										
Actual Milk Price	\$	13.80	\$	17.64	\$	21.24	\$	19.70	\$	21.18
Break-Even Milk Price		15.98		15.12		16.21		15.82		18.04
CASH MARGIN	\$	-2.18	\$	2.52	\$	5.03	\$	3.88	\$	3.14

TABLE C-6.

2013 RESERVE DEBT CAPACITY BY PROFIT GROUPS

	 Bottom 25%		Farm rerage	 Top 25%
		DOLLAR	S PER COW	
Debt Capacity	\$ 2,681	\$	6,108	\$ 8,345
– Capital Debt	2,928		3,104	2,980
RESERVE DEBT CAPACITY	\$ -247	\$	3,004	\$ 5,365

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TABLE D-1.

2013 DATA BY REGIONS-EARNINGS WORKSHEET

	REGIONS ¹							
	NEW YORK		NORTHERN NEW ENGLAND		SOUTHERN NEW ENGLAND		ALL FARMS	
Number of Farms		375		114		28		517
Average Number of Cows		307		359		256		315
Receipts				DOLLARS	PER COW			
Milk Sales	\$	5,110	\$	4,980	\$	4,904	\$	5,080
Cattle Sales		312		284		296		305
Crop Sales		220		19		174		168
Government Payments		68		76		509		89
Other		159		211		198		174
CASH RECEIPTS	\$	5,869	\$	5,570	\$	6,081	\$	5,816
Accrual Adjustments								
+ Change in Inventory-Raised Livestock	\$	64	\$	57	\$	38	\$	61
VALUE OF FARM PRODUCTION (a)	\$	5,933	\$	5,627	\$	6,119	\$	5,877
COST OF GOODS SOLD								
Chemicals & Sprays	\$	71	\$	25	\$	55	\$	59
Custom Hire		145		180		158		155
Purchased Feed		1,791		1,984		1,911		1,849
Fertilizer & Lime		195		193		189		195
Freight & Marketing		225		225		266		227
Gasoline, Fuel & Oil		250		249		259		251
Hired Labor		731		718		886		737
Seed & Plants		145		89		111		130
Supplies		263		281		228		267
Veterinary, Medicine & Breeding		206		175		186		198
Other		62		31		72		55
Cow Replacements		12		17		9		13
Total Cost of Goods Sold	\$	4,096	\$	4,167	\$	4,330	\$	4,136
Gross Margin	\$	1,837	\$	1,460	\$	1,789	\$	1,741
OVERHEAD								
Insurance		61		62		67		62
Interest		121		111		96		118
Rent		100		76		82		93
Repairs		337		304		381		331
Property & Misc. Taxes		80		49		61		71
Utilities		106		128		118		112
Accrual Adjustments								
Depreciation		356		298		319		341
Total Overhead Expenses	\$	1,161	\$	1,028	\$	1,124	\$	1,128
Total Farm Production Costs (b)	\$	5,257	\$	5,195	\$	5,454	\$	5,264
NET FARM EARNINGS (a) - (b)	\$	676	\$	432	\$	665	\$	613
+ Net Nonfarm Income		50		71		71		57
- Family Living & Income Taxes		187		157		198		180
NET EARNINGS	\$	539	\$	346	\$	538	\$	490

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Note: Expenses adjusted for changes in accounts payable, prepaid expenses and supply inventories to remove the effects of tax planning and reflect only one year's expenses. ¹ Regions are divided by state not Federal Milk Orders. Northern New England is Maine, N.H. and Vt. Southern New England is Mass., Conn. and R.I.

TABLE D-2.

2013 DATA BY REGIONS-BALANCE SHEET SUMMARY

		DECE	MBER 31, 2013	3 GIONS ¹				
	NEW YORK		NO	NORTHERN NEW ENGLAND		SOUTHERN NEW ENGLAND		ALL FARMS
Number of Farms		375		114		28		517
Average Number of Cows		307		359		256		315
				ASSETS	PER COW			
Cash & Accounts Receivable	\$	604	\$	508	\$	557	\$	579
Feed & Crop Inventory		1206		925		1152		1135
Supplies & Prepaid Expenses		200		146		282		190
Other Current Assets		80		29		117		70
TOTAL CURRENT ASSETS	\$	2,090	\$	1,608	\$	2,108	\$	1,974
Dairy Livestock	\$	2,318	\$	2,234	\$	1,952	\$	2,286
Machinery & Equipment		2,440		1,930		2,117		2,303
Other Intermediate Assets		606		637		874		627
TOTAL INTERMEDIATE ASSETS	\$	5,364	\$	4,801	\$	4,943	\$	5,216
Farm Real Estate	\$	4,985	\$	5,212	\$	6,986	\$	4,946
Other Fixed Assets		182		295		265		410
TOTAL FIXED ASSETS	\$	5,167	\$	5,507	\$	7,251	\$	5,356
TOTAL ASSETS	\$	12,621	\$	11,916	\$	14,302	\$	12,546
				LIABILITIE	S PER COW			
Accounts Payable	\$	81	\$	121	\$	42	\$	90
Farm Credit Short-Term Loans		153		170		236		161
Other Current Liabilities		461		412		364		445
TOTAL CURRENT LIABILITIES	\$	695	\$	703	\$	642	\$	696
Farm Credit Intermediate Term	\$	1,149	\$	1,084	\$	531	\$	1,108
Other Intermediate Liabilities		250		288		243		260
TOTAL INTERMEDIATE LIABILITIES	\$	1,399	\$	1,372	\$	774	\$	1,368
Farm Credit Long-Term Real Estate	\$	1,179	\$	995	\$	1,329	\$	1,142
Other Long-Term Liabilities		158		256		48		178
TOTAL LONG-TERM LIABILITES	\$	1,337	\$	1,251	\$	1,377	\$	1,320
TOTAL LIABILITIES	\$	3,431	\$	3,326	\$	2,793	\$	3,384
				NET WORT	H PER COW			
OWNER'S NET WORTH	\$	9,190	\$	8,590	\$	11,509	\$	9,162
TOTAL LIABILITIES & NET WORTH	\$	12,621	\$	11,916	\$	14,302	\$	12,546
PERCENT NET WORTH		73%		72%		80%		73%

¹ Regions are divided by state not Federal Milk Orders. Northern New England is Maine, N.H. and Vt. Southern New England is Mass., Conn. and R.I.

TABLE D-3.

2013 DATA BY REGIONS-EVALUATION FACTORS

	REGIONS ¹							
	NEW YORK		NORTHERN NEW ENGLAND		SOUTHERN NEW ENGLAND		ALL FARMS	
Number of Farms		375		114		28		517
Average Number of Cows		307		359		256		315
Worker Equivalents		6.83		7.05		6.24		6.80
Cows Per Worker		45		51		41		46
Pounds of Milk Sold Per Worker		1,080,462		1,188,736		923,255		1,097,288
Pounds of Milk Sold Per Farm		7,379,555		8,380,589		5,761,111		7,512,009
Pounds of Milk Sold Per Cow		24,060		23,357		22,486		23,848
Milk Price Per Cwt.	\$	21.26	\$	21.33	\$	21.81	\$	21.30
Total Crop Acres		775		757		522		766
Crop Acres Per Cow		2.5		2.1		2.0		2.4
Crop Acres Per Worker		113		107		84		113
Feed Cost Per Cow	\$	1,791	\$	1,984	\$	1,911	\$	1,849
Feed Cost Per Cwt.	\$	7.44	\$	8.49	\$	8.50	\$	7.75
Feed as a Percent of Milk Sales		35%		40%		39%		36%
Feed & Crop Expense Per Cow ²	\$	2,202	\$	2,291	\$	2,266	\$	2,233
Feed & Crop Expense Per Cwt.	\$	9.15	\$	9.81	\$	10.08	\$	9.36
Machinery Cost Per Cow ³	\$	915	\$	881	\$	942	\$	910
Machinery Cost Per Cwt.	\$	3.80	\$	3.77	\$	4.19	\$	3.82
Labor & Family Living Per Cow	\$	918	\$	875	\$	1,084	\$	917
Labor & Family Living Per Cwt.	\$	3.82	\$	3.75	\$	4.82	\$	3.85
Assets Per Cow	\$	12,621	\$	11,916	\$	14,302	\$	12,546
Debt Per Cow	\$	3,431	\$	3,326	\$	2,793	\$	3,384
Net Worth Per Cow	\$	9,190	\$	8,590	\$	11,509	\$	9,162
Percent Return on Assets ⁴		5.2%		3.8%		4.4%		4.8%
Percent Return on Equity ⁵		5.9%		4.0%		4.7%		5.3%

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¹ Regions are divided by states not Federal Milk Orders.

² Feed & Crop Expense = Feed + Seed & Plants + Fertilizer + Chemicals & Spray

³ Machinery Cost = Machinery Repairs + Custom Hire + Fuel & Oil + Machinery & Equipment Depreciation

⁴ Return on Assets = (Net Earnings + Interest) / Average Farm Assets. In contrast, the Balance Sheet shows the year-end values

⁵ Return on Equity = Net Earnings / Average Farm Net Worth

GLOSSARY

Net Farm Income

A measure of farm profitability in terms of cash flow, net farm income reflects the ability of a farm business to meet its cost of production through cash income. It is equal to:

Cash Receipts - Adjusted Cash Operating Expenses

Adjusted Cash Operating Expenses

Cash farm operating expenses adjusted to reflect 12 months of operation and to remove the effect of tax planning. Adjustments account for changes in supply inventories, accounts payable and prepaid expenses. Operating expenses do not include family living costs or capital expenditures.

Net Earnings

An accrual measure of farm profitability, net earnings reflects all revenues and costs associated with the farm business. It is equal to:

Net Farm Income

- + Change in Accounts Receivable
- + Change in Production Inventories
- + Net Nonfarm & Noncash Income
- Depreciation
- Family Living Expenses & Taxes

Return on Assets

Measures profit earned relative to total farm assets, including assets financed with debt and those financed with farm equity. Return on assets is equal to:

 Net Earnings + Interest Expense

 Average Assets

Return on Equity

Measures profit earned relative to a farmer's equity investment in the farm operation. Return on equity is equal to:

Net Earnings Average Net Worth

Debt Capacity

The maximum amount of capital debt that can be repaid from a farm's cash flow, the calculation of debt capacity is described in the summary.

Reserve Debt Capacity

The amount of additional capital debt (beyond that already incurred) that a farm can service from cash flow. Reserve debt capacity represents a farm's buffer against financial adversity. It is equal to:

Debt Capacity - Capital Debt

Overhead Costs

Costs that do not vary with a change in production output, such as depreciation, interest, repairs, taxes and insurance, etc.

2013 Northeast Dairy Farm Summary

A joint project of Northeast Farm Credit Associations

Farm Credit East, ACA

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Yankee Farm Credit, ACA

289 Hurricane Lane, Suite 102 Williston, VT 05495-0467 802.879.4700 YankeeACA.com

