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2009 Michigan Upper Peninsula Dairy Business Analysis Summary

Eric Wittenberg And Christopher Wolf

Staff Paper 2010-08

December, 2010







Department of Agricultural, Food, and Resource Economics MICHIGAN STATE UNIVERSITY East Lansing, Michigan 48824

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Staff Paper No. 2010-08, December 2010

By

Eric Wittenberg and Christopher Wolf¹

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¹ Co-workers in the TelFarm project were: R. Betz, L. Borton, C. Talley, W. Schauer, D. Stein, and V. Varner with the assistance of Michigan State University Extension Agents. Greenstone Farm Credit Services co-workers were Kelly Tobin, Steve Eshelman, Janice Raymond, Anne Gerke, Sonya Pentecost, and Lynette Wood. Farm Credit Services of Wisconsin co-worker was Steve Zimmerman.

Executive Summary

This report summarizes the financial and production records of 18 dairy farms across the Upper Peninsula (UP) of Michigan. To be included, the farms must have produced at least 50 percent of gross cash farm income from milk and dairy animal sales. The records came from Michigan State University's TelFarm project and Farm Credit Service system in Michigan. Farm records checked for accuracy. Average values are reported in the summary tables and discussion that follows but readers should note that considerable variation exists in most measures.

In 2009, the average UP dairy farm in the business analysis had 164 cows producing an average of 19,454 pounds of milk per cow (Table 1). Milk price received averaged \$13.26/cwt. The total average acres owned were 708 and the average cropped acres were 843.

Table 1. Average Michigan UP Dairy Farm Characteristics, 2005-2009

	2005	2006	2007	2008	2009
Average number of cows	140	149	150	153	164
Milk sold per cow (pounds)	18,672	19,543	18,240	17,897	19,454
Average price of milk sold (\$/cwt)	15.94	13.50	19.05	19.42	13.26
Total acres owned	621	655	676	671	708
Total crop acres	689	756	786	783	843
Number of farms	30	27	24	23	18

Net farm income is the return to operator unpaid management, labor and capital invested. Net farm income in 2009 averaged a negative \$54,320 (Table 2). The median was a negative \$20,300 and the standard deviation was a \$157,410 across the 18 dairy farms.

Table 2. Average Michigan UP Dairy Farm Income Statement, 2005-2009

	2005	2006	2007	2008	2009
	(\$)	(\$)	(\$)	(\$)	(\$)
Gross cash farm income	552,192	531,643	673,978	701,117	609,927
- Total cash expense	410,527	437,583	536,890	538,514	537,808
= Net cash farm income	141,665	94,060	137,088	162,602	72,119
+ Inventory change*	-7,345	16,610	12,378	17,513	-66,354
+ Depreciation and capital adjustments*	<u>-69,158</u>	<u>-78,541</u>	<u>-65,476</u>	<u>-85,333</u>	<u>-60085</u>
= Net farm income	65,162	32,129	83,990	94,783	-54,320

^{*}Changes calculated as ending value minus beginning value.

Gross cash farm income averaged \$609,927 in 2009. The largest component of these revenues was milk sales, which averaged \$433,727. The second largest revenue was direct and CC government payment income at \$57,275 and third was insurance income at \$27,754. Average total cash expenses were \$537,808 and average net cash farm income was \$72,119. Inventory changes were a negative \$66,354, on average farms were losing inventories, while depreciation and capital adjustments averaged \$60,085. The net farm income value is the return to operator unpaid management, labor and capital invested averaged a negative \$54,320 in 2009, the lowest average in the last five years (Table 2).

To put the profit values in perspective, we calculate profitability ratios. Rate of return on assets (ROA) is the farm operating profit (equal to net farm income plus interest expense less value of operator labor and management) divided by average total farm asset value (valued at current market value). Rate of return on assets is a measure of how much profit the farm business assets generated. The average 2009 dairy farm ROA (Market) was a negative 0.8 percent, the lowest in the 5 years (Table 3). Return on equity tells a similar story. Operating profit margin is the operating profit (as defined in ROA above) divided by gross revenues. Operating profit margin measures the dollars of profit generated per dollar of revenue. In 2009, Michigan's UP dairy farms generated a negative 4.5 cents of profit per dollar of revenue. Asset turnover is gross farm revenue divided by average asset value. Asset turnover measures the efficiency with which farm assets generate revenue.

Table 3. Average Michigan UP Dairy Farm Profitability Indicators, 2005-2009

	2005	2006	2007	2008	2009
	(%)	(%)	(%)	(%)	(%)
Rate of return on assets*	5.9	4.1	4.7	6.1	-0.8
Rate of return on equity	6.6	3.5	4.3	6.2	-2.8
Operating profit margin	21.7	17.4	12.0	23.2	-4.5
Asset turnover rate*	27.3	23.4	27.7	26.1	18.4

^{*} Assets valued at market value (rather than cost).

Per Unit Income and Expenses

Table 4 displays average income and expenses items per hundredweight (cwt) of milk and per cow across 18 UP dairy farms. Both income and expenses were adjusted to an accrual basis where detailed financial information was provided. Average, accrual adjusted income and expenses per cropped acre are also included.

Income items related to the dairy herd are included in the first section. Government payments include all farm government payments—not just those related to the dairy herd. It was not possible to separate crop payments from dairy payments. *This table should not be interpreted as an estimate of the true cost of producing milk*. All farm sales are not included in the income items—only those that are related to the milking herd. Also, unpaid factors, including labor, management and capital, are not accounted for in the expense items. In addition, the allocation of resources amongst farm enterprises is not accurately reflected leaving the milking herd as the residual claimant on all expenses (especially labor costs).

The largest expense was purchased feed at \$4.59/cwt. and family living was the second largest at \$3.12/cwt and hired labor was third at \$2.05/cwt. Repairs, Fuel and Oil, Interest, Depreciation, Leases, and milk marketing and trucking combined were also significant expenses for 2009.

The bottom of Tables 4 presents crop related expenses divided by the total cropped acres. To accurately calculate a crop cost of production requires labor and management (among other) expenses that were not separated out in the financial records.

Table 4. Average income and expenses across all Upper Peninsula farms*, 2009

Income Itams:		
Income Items:	Per cwt.	Per Cow
Milk	\$13.26	\$2,554.9
Cull Cows and Calves	\$1.08	\$166.7
Dairy Steers	\$0.61	\$110.5
Dairy Heifers	\$0.66	\$135.3
Government Payments	\$2.04	\$378.3
Patronage Dividends, cash	\$0.37	\$39.2
Crop Sales	\$1.11	\$191.7
Other Cash Income	\$2.26	\$353.6
Expense Items:	Per cwt.	Per Cow
Purchased Feeds	\$4.59	\$900.3
Breeding Fees	\$ 0.18	\$34.2
Veterinary	\$0.35	\$72.2
Livestock Supplies	\$0.82	\$133.
DHIA	\$0.08	\$20.
Milk & Livestock Mkt. & Trucking	\$0.99	\$173.
Interest	\$1.11	\$186.
Fuel and Oil	\$1.26	\$198.
Repairs	\$1.31	\$202.
Custom Hire	\$0.47	\$80.
Hired Labor	\$2.05	\$421.
Leases	\$1.06	\$198.
Real Estate Taxes	\$0.44	\$72.
Farm Insurance	\$0.78	\$112.
Utilities	\$0.67	\$111.
Dues, Professional Fees	\$0.20	\$36.
Miscellaneous	\$0.57	\$65.
Machinery Depreciation	\$1.06	\$203.
Building Depreciation	\$0.71	\$125.
Family Living	\$3.12	\$490.
Expense Items per Cropped Acre:	Per Acre	
Seed	\$25.86	
Fertilizer	\$47.45	
Crop Chemicals	\$18.26	
Crop Insurance	\$1.82	
Crop Miscellaneous	\$1.71	
Land Rent	\$17.76	

All income and expense items averaged across all 18 farms whether they had this income or expense item or not. Other cash income includes custom work, insurance claims, and miscellaneous income.

Table 5 Crop Production and Marketing Summary 2009 MI Dairy UP Farms (Farms Sorted By Rate of Return on Assets - Mkt)

	Avg. Of All Farms	High 25%
Dairy Number of farms Average number of cows, Milk production per cows lbs., Average milk price per cwt.,	18	5
Acreage Summary		
Total acres owned	708	423
Total crop acres	843	845
Crop acres owned	501	425
Crop acres cash rented	343	420
Crop acres share rented	_	_
Total pasture acres	_	_
Percent crop acres owned	59 %	50 %

Table 6 Farm Income Statement 2009 MI Dairy UP Farms (Farms Sorted By Rate of Return on Assets - Mkt)

	Avg. Of All Farms	High 25%
Number of farms	18	5
Cash Farm Income		
Corn	992	3,500
Hay, Alfalfa	3,655	3,549
Oats	42	153
Soybeans	4,508	16,228
Sunflowers	207	745
Wheat, Winter	1,595	5,743
Miscellaneous crop income	134	79
Dairy, Milk	433,727	441,743
Dairy, Dairy Calves	3,003	402
Dairy Heifers (for sale)	1,482	1,880
Dairy Finishing	4,715	4,248
Sheep, Market Lamb Prod, Mkt Lamb	44	158
Dairy Feeder	716	_
User Added Livestock, User Added	2,245	_
Cull breeding livestock	25,057	24,638
Direct & CC govt payments	57,275	26,978
Other government payments	12,969	21,619
Custom work income	19,580	3,129
Patronage dividends, cash	811	2,732
Insurance income	27,754	16,432
Other farm income	9,419	8,253
Gross Cash Farm Income	609,927	582,207

Table 6 Farm Income Statement (Continued)

2009 MI Dairy UP Farms

(Farms Sorted By Rate of Return on Assets - Mkt)

Number of farms		Avg. Of All Farms	High 25%
Seed 16,936 19,693 Fertilizer 33,565 24,953 Crop chemicals 7,860 6,973 Crop insurance 104 374 Drying expense 40 145 Crop marketing 38 136 Feeder livestock purchase 6,537 - Purchased feed 151,659 157,761 Breeding fees 4,487 2,911 Veterinary 12,913 11,292 Livestock supplies 8,718 13,598 DHIA 501 - Contract production exp. 132 - Hauling and trucking 13,388 9,750 Livestock marketing 13,270 17,090 Bedding 5,012 1,389 Interest 27,878 38,190 Supplies 12,863 11,289 Fuel & oil 30,363 26,745 Repair, machinery 100 360 Custom hire 15,503 5082 Repair, building	Number of farms	18	5
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Net cash farm income 72,119 61,507 Inventory Changes Prepaids and supplies -1,141 -4,360 Accounts receivable -21,164 1,313 Hedging accounts 198 - Other current assets 271 -1,760 Crops and feed 18,584 23,864 Market livestock -649 4,399 Breeding livestock -20,672 -4,883 Other assets -5,688 281 Accounts payable -36,093 4,271 Accrued interest - -			
Prepaids and supplies -1,141 -4,360 Accounts receivable -21,164 1,313 Hedging accounts 198 - Other current assets 271 -1,760 Crops and feed 18,584 23,864 Market livestock -649 4,399 Breeding livestock -20,672 -4,883 Other assets -5,688 281 Accounts payable -36,093 4,271 Accrued interest - -	±		
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Hedging accounts 198 - Other current assets 271 -1,760 Crops and feed 18,584 23,864 Market livestock -649 4,399 Breeding livestock -20,672 -4,883 Other assets -5,688 281 Accounts payable -36,093 4,271 Accrued interest - -	Prepaids and supplies	-1,141	-4,360
Other current assets 271 -1,760 Crops and feed 18,584 23,864 Market livestock -649 4,399 Breeding livestock -20,672 -4,883 Other assets -5,688 281 Accounts payable -36,093 4,271 Accrued interest - -	Accounts receivable	-21,164	1,313
Crops and feed 18,584 23,864 Market livestock -649 4,399 Breeding livestock -20,672 -4,883 Other assets -5,688 281 Accounts payable -36,093 4,271 Accrued interest - -	Hedging accounts	198	_
Market livestock-6494,399Breeding livestock-20,672-4,883Other assets-5,688281Accounts payable-36,0934,271Accrued interest	Other current assets	271	-1,760
Breeding livestock -20,672 -4,883 Other assets -5,688 281 Accounts payable -36,093 4,271 Accrued interest -	Crops and feed	18,584	23,864
Breeding livestock -20,672 -4,883 Other assets -5,688 281 Accounts payable -36,093 4,271 Accrued interest -	-		
Other assets -5,688 281 Accounts payable -36,093 4,271 Accrued interest	Breeding livestock	-20,672	
Accounts payable -36,093 4,271 Accrued interest			
Accrued interest		•	
		_	, –
	Total inventory change	-66,354	23,125

Net operating profit	5,765	84,632	
Depreciation Machinery and equipment Titled vehicles Buildings and improvements	-34,887 - -25,199	-39,983 - -14,858	
Total depreciation	-60,085	-54,841	
Net farm income from operations Gain or loss on capital sales	-54,320 -	29,791 -	
Net farm income	-54,320	29,791	

Table 7

Inventory Changes

2009 MI Dairy UP Farms

(Farms Sorted By Rate of Return on Assets - Mkt)

	Avg. Of All Farms	High 25%
Number of farms	18	5
Net cash farm income	72,119	61,507
Crops and Feed Ending inventory Beginning inventory Inventory change	126,434 107,851 18,584	160,053 136,189 23,864
Market Livestock Ending inventory Beginning inventory Inventory change	16,048 16,697 -649	10,744 6,345 4,399
Accts Receivable Ending inventory Beginning inventory Inventory change	26,891 48,055 -21,164	19,213 17,900 1,313
Prepaid Expenses and Supplies Ending inventory Beginning inventory Inventory change	14,639 15,780 -1,141	1,000 5,360 -4,360
Hedging Activities Ending inventory Withdrawals Beginning inventory Deposits Gain or loss	198 - - - 198	- - - -
Other Current Assets Ending inventory Beginning inventory Inventory change	2,396 2,124 271	1,600 3,360 -1,760
Breeding Livestock Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	416,622 - 421,947 15,348 -20,672	411,770 - 400,563 16,090 -4,883
Other Capital Assets Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust	155,928 43 157,001 4,659 -5,688	38,321 157 35,829 2,368 281
Accounts Payable Beginning inventory Ending inventory Inventory change	27,829 63,922 -36,093	19,893 15,622 4,271
Accrued Interest Beginning inventory Ending inventory Inventory change	- - -	- - -
Total inventory change	-66,354	23,125
Net operating profit	5,765	84,632

Table 8 Depreciation 2009 MI Dairy UP Farms (Farms Sorted By Rate of Return on Assets - Mkt)

	Avg. Of All Farms	High 25%
Number of farms	18	5
Net operating profit	5,765	84,632
Machinery and Equipment Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust.	89,784 1,998 100,008 26,660 -34,887	93,602 540 120,126 13,998 -39,983
Titled Vehicles Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust.	- - - -	- - - -
Buildings and Improvements Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust.	154,809 - 174,277 5,731 -25,199	121,038 - 135,889 7 -14,858
Total depreciation, capital adj.	-60,085	-54,841
Net farm income from operations Gain or loss on capital sales	-54,320 -	29,791 -
Net farm income	-54,320	29,791

Table 9 Profitability Measures 2009 MI Dairy UP Farms (Farms Sorted By Rate of Return on Assets - Mkt)

Number of farms	Avg. Of All Farms	нigh 25% 5
Profitability (assets valued at cost) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	-54,320 -3.7 % -11.5 % -10.9 % 33.7 %	29,791 3.7 % 0.5 % 8.9 % 41.9 %
Farm interest expense Value of operator lbr and mgmt. Return on farm assets Average farm assets Return on farm equity Average farm equity Value of farm production	27,878 19,733 -46,175 1,253,645 -74,053 645,023 422,933	1,791
	Avg. Of All Farms	High 25%
Number of farms	18	5
Profitability (assets valued at marke	t)	
Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	-27,326 -0.8 % -2.8 % -4.5 % 18.4 %	63,307 3.7 % 2.8 % 16.4 % 22.8 %
Farm interest expense Value of operator lbr and mgmt. Return on farm assets Average farm assets Return on farm equity Average farm equity Value of farm production	27,878 19,733 -19,181 2,293,800 -47,059 1,685,178 422,933	38,190 28,000 73,496 1,968,851 35,307 1,244,677 449,420

Table 10 Liquidity & Repayment Capacity Measures

2009 MI Dairy UP Farms

(Farms Sorted By Rate of Return on Assets - Mkt)

	Avg. Of All Farms	High 25%
Number of farms	18	5
Liquidity Current ratio Working capital Working capital to gross inc	1.32 51,168 8.8 %	1.63 91,055 15.0 %
Current assets Current liabilities Gross revenues (accrual)	213,243 162,075 581,129	236,233 145,178 607,181
Repayment capacity Net farm income from operations Depreciation Personal income Family living/owner withdrawals Payments on personal debt Income taxes paid Interest on term debt Capital debt repayment capacity	-54,320 60,085 6,307 -67,432 - -2,064 26,654 -30,770	29,791 54,841 -3,073 -95,358 - -738 45,685 31,148
Scheduled term debt payments Capital debt repayment margin	-58,782 -89,552	-74,735 -43,588
Cash replacement allowance Replacement margin	-21,611 -111,162	-24,804 -68,392
Term debt coverage ratio Replacement coverage ratio	-0.52 -0.38	0.42 0.31

Table 11 Balance Sheet at Cost Values

2009 MI Dairy UP Farms

(Farms Sorted By Rate of Return on Assets - Mkt)

	Avg. O: All Fart		High 2	5%
Number of farms	18	3	!	5
	Beginning	Ending	Beginning	Ending
Assets Current Farm Assets				
Cash and checking balance	32,592	26,637	36,383	43,624
Prepaid expenses & supplies	15,780	14,639	5,360	1,000
Growing crops Accounts receivable	933	611		
Hedging accounts	48,055 0	26,891 198		19,213 0
Crops held for sale or feed	107,851	126,434		160,053
Crops under government loan	0			0
Market livestock held for sale Other current assets	16,697 1,191			
Total current farm assets	223,099			
Intermediate Farm Assets				
Breeding livestock	421,947	416,622	400,563	411,770
Machinery and equipment	100,008			
Titled vehicles Other intermediate assets	7 063		0 15,676	
Total intermediate farm assets	7,063 529,018			
Lana Harm Barm Assaha				
Long Term Farm Assets Farm land	197,034	203,537	160,636	184,636
Buildings and improvements	174.277	154.809		
Other long-term assets	149,938			20,053
Total long-term farm assets Total Farm Assets	521,249 1,273,366		316,678 1,058,580	
Total Talm Tables	1,2,3,300	1,233,721	1,030,300	1,005,001
Total Nonfarm Assets Total Assets	48,749		12,324 1,070,904	
	1,322,110	1,203,173	1,0,0,501	1,100,000
Liabilities Current Farm Liabilities				
Accrued interest	0	0	0	0
Accounts payable	27,829			
Current notes	72,919			
Government crop loans Principal due on term debt	0 32,128	0 23,770		
Total current farm liabilities	132,876			
Total intermediate farm liabs	167,066	224,675	207,183	253,134
Total long term farm liabilities	267,368			
Total farm liabilities	567,310	649,934	667,592	780,757
Total nonfarm liabilities	0	0	0	0
Total liabilities	567,310	649,934	667,592	780,757
Net worth (farm and nonfarm)	754,806	633,539		319,932
Net worth change		-121,267		-83,381 -21 %
Percent net worth change		-16 %		-21 %
Ratio Analysis Current farm liabilities / assets	<i>د</i> ٥ ۰.	76 %	60 °.	<i>C</i> 1 0.
Intermediate farm liab. / assets	60 % 32 %	70 6 44 %	63 % 39 %	61 % 48 %
Long term farm liab. / assets	51 %	52 %	104 %	117 %
Total debt to asset ratio	43 %	51 %	62 %	71 %

Table 12

Balance Sheet at Market Values 2009 MI Dairy UP Farms

(Farms Sorted By Rate of Return on Assets - Mkt)

Avg. Of All Farms High 25% 5 Number of farms 18 Beginning Ending Beginning Ending Assets Current Farm Assets 32,592 26,637 36,383 43,624 Cash and checking balance 15,780 Prepaid expenses & supplies 14,639 5,360 1,000 Growing crops 933 611 3,360 1,600 17,900 Accounts receivable 48,055 26,891 19,213 Hedging accounts 0 198 Ω 107,851 136,189 Crops held for sale or feed 126,434 Crops under government loan 0 0 0 0 Market livestock held for sale 16,697 16,048 10,744 6,345 Other current assets 1.191 1,784 0 0 Total current farm assets 223,099 213,243 205,536 236,233 Intermediate Farm Assets Breeding livestock 421,947 418,556 400,563 418,730 Machinery and equipment 351,021 342,600 371,660 355,720 Titled vehicles 0 0 Ω 0 15,676 Other intermediate assets 23.484 22.539 18.268 Total intermediate farm assets 795,507 784,640 787,899 792,718 Long Term Farm Assets Farm land 779,605 790,771 594,740 618,740 352,783 349,575 330,400 Buildings and improvements 322.500 Other long-term assets 149,030 149,347 20,007 28,928 1,281,418 1,289,693 945,147 Total long-term farm assets 970.168 Total Farm Assets 2,300,024 2,287,576 1,938,583 1,999,120 Total Nonfarm Assets 122,833 124,744 141,245 144,008 Total Assets 2,422,858 2,412,320 2,079,827 2,143,128 Liabilities Current Farm Liabilities Accrued interest 0 0 0 0 Accounts payable 27,829 63,922 19,893 15,622 Current notes 72,919 74,383 81,508 104,534 Government crop loans 0 0 0 32.128 23,770 29.051 25.022 Principal due on term debt Total current farm liabilities 132,876 162,075 130,452 145,178 Total intermediate farm liabs 167,066 224,675 207,183 253,134 267,368 Total long term farm liabilities 263,184 329,957 382,445 649,934 Total farm liabilities 567,310 667,592 780.757 Total nonfarm liabilities Ω Ω Ω Ω Total liabs excluding deferreds 567,310 649,934 667,592 780,757 Total deferred liabilities Ω 0 0 0 Total liabilities 567,310 649,934 667,592 780,757 Retained earnings 754,806 633,539 403,312 319,932 Market valuation equity 1,100,742 1,128,847 1,008,924 1,042,439 Net worth (farm and nonfarm) 1,855,548 1,762,386 1,412,236 1,362,371 Net worth excluding deferreds 1,855,548 1,762,386 1,412,236 1,362,371 Net worth change -93,162 -49.865 Percent net worth change -5 % Ratio Analysis Current farm liabilities / assets 60 % 76 % 63 % 61 % Intermediate farm liab. / assets 21 % 29 % 26 % 32 % Long term farm liab. / assets 21 % 20 % 35 % 39 % Total debt to asset ratio 23 % 27 % 32 % 36 % Debt to assets excl deferreds 23 % 27 % 32 %

36 %

Table 13 Statement Of Cash Flows
2009 MI Dairy UP Farms
(Farms Sorted By Rate of Return on Assets - Mkt)

	Avg. Of All Farms	High 25%
	AII FaIMS	111911 25%
Number of farms	18	5
Beginning cash (farm & nonfarm)	32,592	36,383
Cash Provided By Operating Activities		
Gross cash farm income	609,927	582,207
Total cash farm expense	-537,808	-520,701
Net cash from hedging transactions	-	-
Cash provided by operating	72,119	61,507
Cash Provided By Investing Activities		
Sale of breeding livestock	_	_
Sale of machinery & equipment	1,998	540
Sale of titled vehicles	_	_
Sale of farm land	_	_
Sale of farm buildings	_	-
Sale of other farm assets	43	157
Sale of nonfarm assets	_	-
Purchase of breeding livestock	-15,348	-16,090
Purchase of machinery & equip.	-26,660	-13,998
Purchase of titled vehicles	-	-
Purchase of farm land	-12,062	-43,423
Purchase of farm buildings	-5,731	-7
Purchase of other farm assets	-4,659	-2,368
Purchase of nonfarm assets	-877	-
Cash provided by investing	-63,295	-75,189
Cash Provided By Financing Activities		
Money borrowed	129,919	217,860
Principal payments	-83,387	-100,424
Personal income	6,307	-3,073
Family living/owner withdrawals	-67,432	-95,358
Income and social security tax	-2,064	-738
Capital contributions	-	-
Capital distributions	_	_
Dividends paid	_	_
Cash gifts and inheritances	2,212	2,656
Gifts given	-333	_
Other cash flows		_
Cash provided by financing	-14,779	20,924
Net change in cash balance	-5,955	7,241
Ending cash (farm & nonfarm)	26,637	43,624

Table 14 Financial Standards Measures

2009 MI Dairy UP Farms

(Farms Sorted By Rate of Return on Assets - Mkt)

	Avg. Of All Farms	High 25%
Number of farms	18	5
Liquidity Current ratio Working capital Working capital to gross inc	1.32 51,168 8.8 %	1.63 91,055 15.0 %
Solvency (market) Farm debt to asset ratio Farm equity to asset ratio Farm debt to equity ratio	28 % 72 % 0.40	39 % 61 % 0.64
Profitability (cost) Rate of return on farm assets Rate of return on farm equity Operating profit margin Net farm income EBIDTA	-3.7 % -11.5 % -10.9 % -54,320 33,644	3.7 % 0.5 % 8.9 % 29,791 122,822
Repayment Capacity Capital debt repayment capacity Capital debt repayment margin Replacement margin Term debt coverage ratio Replacement coverage ratio	-30,770 -89,552 -111,162 -0.52 -0.38	31,148 -43,588 -68,392 0.42 0.31
Efficiency Asset turnover rate (cost) Operating expense ratio Depreciation expense ratio Interest expense ratio Net farm income ratio	33.7 % 94.2 % 10.3 % 4.8 % -9.3 %	41.9 % 79.8 % 9.0 % 6.3 % 4.9 %

Table 15 Operator and Labor Information

2009 MI Dairy UP Farms

(Farms Sorted By Rate of Return on Assets - Mkt)

	Avg. Of All Farms	High 25%
Number of farms	18	5
Operator Information Average number of operators Average age of operators Average number of years farming	1.7 51.3 25.8	1.8 51.3 29.0
Results Per Operator Working capital Total assets (market) Total liabilities Net worth (market) Net worth excl deferred liabs	30,701 1,447,392 389,960 1,057,432 1,057,432	50,586 1,190,627 433,754 756,873 756,873
Gross farm income Total farm expense Net farm income from operations	348,678 381,270 -32,592	337,323 320,772 16,551
Net nonfarm income Family living & tax withdrawals	3,784 41,698	-1,707 53,387
Total acres owned Total crop acres Crop acres owned Crop acres cash rented Crop acres share rented Total pasture acres	425.0 506.0 300.3 205.7	235.0 469.2 236.1 233.1
Labor Analysis Number of farms Total unpaid labor hours Total hired labor hours Total labor hours per farm Unpaid hours per operator Value of farm production / hour Net farm income / unpaid hour Average hourly hired labor wage	18 4,644 4,870 9,515 2,787 44.45 -11.70 15.10	5,500 6,842 12,342 3,056 36.41 5.42 10.03
Partnerships & LLCs Number of farms Number of operators Owner withdrawals per farm Withdrawals per operator	8 2.3 - -	2 - - -

Table 16 Financial Summary

2009 MI Dairy UP Farms

(Farms Sorted By Rate of Return on Assets - Mkt)

	Avg. Of	
	All Farms	High 25%
Number of farms	18	5
Income Statement		
Gross cash farm income	609,927	582,207
Total cash farm expense	537,808	
Net cash farm income	72,119	61,507
Inventory change	-66,354	23,125
Depreciation	-60,085	-54,841
Net farm income from operations	-54,320	29,791
Gain or loss on capital sales	_	_
Average net farm income	-54,320	29,791
Median net farm income	-20,300	24,470
Profitability (cost)		
Rate of return on assets	-3.7 %	3.7 %
Rate of return on equity	-11.5 %	0.5 %
Operating profit margin	-10.9 %	8.9 %
Asset turnover rate	33.7 %	41.9 %
rofitability (market)		
Rate of return on assets	-0.8 %	3.7 %
Rate of return on equity	-2.8 %	
Operating profit margin	-4.5 %	
Asset turnover rate	18.4 %	
	10.1	22.0 0
iquidity & Repayment (end of year) Current assets	213,243	236,233
Current liabilities		
Current ratio	162,075 1.32	1.63
Working capital	51,168	
Working capital to gross inc	8.8 %	
Term debt coverage ratio Replacement coverage ratio	-0.52 -0.38	
olympay (and of year at goot)		
olvency (end of year at cost) Number of farms	18	5
Total farm assets	1,233,924	
Total farm liabilities	649,934	
Total assets	1,283,473	
Total liabilities	649,934	
Net worth	633,539	
Net worth change	-121,267	
Farm debt to asset ratio	53 %	
Total debt to asset ratio	51 %	71 %
olvency (end of year at market)	a -	=
Number of farms	18	5
Total farm assets	2,287,576	
Total farm liabilities	649,934	780,757
Total assets	2,412,320	
Total liabilities	649,934	
Net worth	1,762,386	1,362,371
Net worth change	-93,162	-49,865
Farm debt to asset ratio	28 %	39 %
Total debt to asset ratio	27 %	36 %
onfarm Information		
Net nonfarm income	6,307	-3,073
rop Acres		
Total acres owned	708	423
Total crop acres	843	
Total crop acres owned	501	425
Total crop acres cash rented	343	420
Total crop acres share ren		-
TOTAL CLOP ACTES SHALE LEI	ıceu	_