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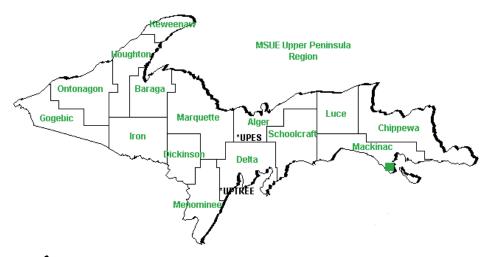
Staff Paper

Dairy Farms in Michigan's U. P., 2000

Sherrill B. Nott and Steve Smith

Staff Paper 2001-22

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DAIRY FARMS IN MICHIGAN'S U. P., 2000

Michigan Data from Telfarm/MicroTel, and Farm Credit Services Staff Paper No. 2001-22, 16 pages

by

Sherrill B. Nott and Steve Smith¹





Introduction

The body of this report is organized as follows:

- I. Introduction and Table of Contents for Upper Peninsula (U. P.) Dairy Farms
 - A. List of Tables
 - B. Data Source
- II. List and sequence of Tables

A.	Avera	ages of 19 U. P. Dairy Farms
	1.	Livestock and Crop Production Summary Page 4
	2,3.	Farm Income Statement Page 5,6
	4.	Inventory Changes
	5.	Depreciation, Capital Adjustments Page 8
	6.	Profitability Measures
	7.	Liquidity Measures
	8.	Balance Sheet at Cost Values
	9.	Balance Sheet at Market Values Page 12
	10.	Statement of Cash Flows
	11.	Financial Standards Measures Page 14
	12.	Financial Summary
	13.	Operator and Labor Information

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¹ Professor and Farm Management Specialist and Undergraduate at East Lansing High School, respectively; phone 517-353-4522 or nott@msu.edu Co-workers in the Telfarm/MicroTel project were R. Betz, L. Borton, R. Clark, B. Dartt, S. Harsh, M. Kelsey, G. Kole, T. Purdy, W. Schauer, G. Schwab, D. Stein, and C. Wolf with the assistance of Michigan State University Extension Agents. Farm Credit Services of Wisconsin co-worker was Steve Zimmerman.

Data Source

Farm types were assigned using the 1992 Census of Agriculture's Standard Industrial Classification (SIC) definitions. Basically, any farm with 50 percent or more of value of farm sales from one item becomes a farm of that type. Dairy farms have 50 percent or more of value of combined sales from milk and cull dairy animals.

This report is a summary of the financial and production records kept by U.P. dairy farmers enrolled in the Telfarm/MicroTel record program through Michigan State University Extension, or were accounting clients of Farm Credit Services. Farm records were included if a Finan² summary was completed on 2000 data including beginning and ending balance sheets, plus income and expenses. The summary was included if cash discrepancy was less than 10% of gross cash inflow, and if the debt discrepancy was less than \$1,000. The averages are reported in the tables below; it should be recognized that considerable variability exist in the data. The unweighted mean of the net farm income for the 19 farms was \$18,401; the standard deviation of the mean was \$63,550 and the median was \$32,401. The unweighted mean of milk sold per cow for the 19 farms was 18,008 lbs.; the standard deviation of the mean was 3,373 lbs. and the median was 17,896 lbs.

This report has two purposes: 1) to provide statistical information about the financial results on U.P. dairy farms during 2000; and 2) to provide production costs for comparative analysis and forward planning.

RankEm³ allows rapid analysis of group averages with some degree of choice over how the results are presented. We prefer to show the average of the high or low 33 percent by net income, but only if the 33 percent means 6 or more farms. The farm was accepted in the average regardless of whether the farm was a proprietorship, partnership, limited liability company, or corporation. RankEm will produce a variety of report options; a subset is given in this publication.

The farms included in the averages below were not a random sample. They kept their financial records on a supervised system and received a variety of off-farm management help. The averages may be representative of bigger and better managed U. P. dairy farms.

This document may be found and downloaded from the following:

http://www.msu.edu/user/nott

Finan = financial analysis, one of the parts of Finpack, a financial software package from the Center for Farm Financial Management at the University of Minnesota.

Rankem = software from the Center for Farm Financial Management at the University of Minnesota. It provides group statistics from Finan data.

Table 1 LIVESTOCK AND CROP PRODUCTION SUMMARY, 2000 **Dairy Farms in Michigan's U. P.**

(Farms sorted by Net Farm Income)

	Avg. Of <u>All Farms</u>	Low 33%	High 34%
Number of farms	19	6	7
Dairy Summary			
Average number of cows	126	143	128
Milk sold per cow, lbs.	18,008	19,015	18,570
Average milk price per cwt.	\$12.54	\$12.40	\$12.54
Acreage Summary			
Total acres owned	611	959	642
Total crop acres	310	259	484
Crop acres owned	192	148	334
Crop acres cash rented	118	110	151
Crop acres share rented	_	_	_

FARM INCOME STATEMENT, 2000 **Dairy Farms in Michigan's U. P.**

(Farms sorted by Net Farm Income)

	Avg. Of All Farms	Low 33%	<u> High 34%</u>
Number of farms	19	6	7
Cash Farm Income			
Cordwood	2,780	8,802	_
Corn	421	1,333	_
Corn, Ear	584	_	1,584
Hay, Mixed	2,303	2,421	4,098
Straw	93	250	37
Miscellaneous crop income	14	-	26
Beef, Background Beef	1,616	-	_
Dairy, Milk	289,595	353,632	304,664
Dairy, Dairy Calves	1,133	1,956	781
Dairy Heifers (for sale)	1,936	6,033	84
Dairy Replacement Heifers	547	532	_
Dairy Steers	10,455	10,070	10,454
Sheep, Market Lambs, Mkt Lambs	423	-	1,148
Cull breeding livestock	17,885	21,871	16,495
Misc. livestock income	18	_	3
Other government payments	30,136	29,543	29,801
Custom work income	11,435	19,351	1,319
Patronage dividends, cash	3,274	2,051	6,418
Insurance income	1,970	6,238	_
Other farm income	7,734	8,019	1,965
Gross Cash Farm Income	384,350	472,102	378,876

FARM INCOME STATEMENT, 2000 (Continued)

Dairy Farms in Michigan's U. P. (Farms sorted by Net Farm Income)

Number of Farms	Avg. Of <u>All Farms</u> 19	<u>Low 33%</u>	<u>High 34%</u> 7
Cash Farm Expense Seed Fertilizer	4,568	4,352	5,464
	12,441	10,806	5,428
	3,493	2,019	2,269
Crop chemicals Crop insurance Crop miscellaneous Feeder livestock purchase	98 482 1,473	2,019 20 227	248 1,041 3,974
Purchased feed	78,416	102,180	79,987
Breeding fees	1,989	821	3,071
Veterinary	6,701	7,724	8,898
Livestock supplies	13,008	12,252	11,811
Livestock leases	1,481	4,549	121
Livestock marketing	10,874	10,407	13,049
Interest	23,872	38,675	19,171
Fuel & oil	12,354	12,580	11,457
Repairs	26,559	30,303	19,452
Custom hire	9,815	20,209	8,350
Hired labor	49,833	78,158	49,995
Land rent	5,221	8,247	1,584
Machinery & bldg leases	1,565	2,653	1,817
Real estate taxes	5,511	6,524	5,140
Farm insurance	5,900	9,652	4,087
Utilities Dues & professional fees Miscellaneous	8,898	12,831	7,875
	2,265	2,221	2,224
	7,071	9,005	8,219
Total cash expense Net cash farm income Inventory Changes	293,888	386,412	274,732
	90,462	85,689	104,144
Crops and feed Market livestock Accounts receivable Prepaid expenses and supplies	-5,480	-24,396	1,922
	1,653	355	3,292
	-8,773	-10,403	-10,919
	-9,487	-16,767	-3,482
Accounts payable Total inventory change Net operating profit	-2,240	-3,798	-1,109
	-24,326	-55,008	-10,295
	66,136	30,681	93,849
Depreciation and Other Capital Adjust Breeding livestock Machinery and equipment Buildings and improvements Other farm capital Total depr. and other capital adj	-1,133	-20,667	9,896
	-34,971	-30,546	-31,183
	-14,150	-20,330	-14,021
	2,519	296	6,214
	-47,734	-71,246	-29,093
Net farm income	18,402	-40,565	64,756

Table 4

INVENTORY CHANGES, 2000 **Dairy Farms in Michigan's U. P.** (Farms sorted by Net Farm Income)

	Avg. Of All Farms	Low 33%	<u> High 34%</u>
Number of farms	19	6	7
Net cash farm income	90,462	85,689	104,144
Crops and Feed Ending inventory Beginning inventory Inventory change	82,706 88,185 -5,480	84,126 108,522 -24,396	95,286 93,364 1,922
Market Livestock Ending inventory Beginning inventory Inventory change	16,078 14,425 1,653	8,042 7,687 355	13,464 10,172 3,292
Accts Receivable & Other Current As Ending inventory Beginning inventory Inventory change	14,376	24,322	
Prepaid Expenses and Supplies Ending inventory Beginning inventory Inventory change	8,761 18,248 -9,487	20,324	•
Accounts Payable & Accrued Expenses Beginning inventory Ending inventory Inventory change	2,902 5,142 -2,240		•
Total inventory change	-24,326	-55,008	-10,295
Net operating profit	66,136	30,681	93,849

Table 5

DEPRECIATION AND OTHER CAPITAL ADJUSTMENTS, 2000 **Dairy Farms in Michigan's U. P.** (Farms sorted by Net Farm Income)

	Avg. Of <u>All Farms</u>	<u>Low 33%</u>	High 34%
Number of farms	19	6	7
Net operating profit	66,136	30,681	93,849
Breeding Livestock Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust.	243,645 - 244,199 579 -1,133	287,813 - 306,821 1,658 -20,667	_
Machinery and Equipment Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust.	110,800 1,563 114,556 32,778 -34,971	114,021 3,417 112,940 35,044 -30,546	28,937
Buildings and Improvements Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust.	98,815 - 107,307 5,658 -14,150	11,689	•
Other Capital Assets Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust.	21,192 135 17,603 1,204 2,519	38,755 102 36,167 2,394 296	
Total depreciation, capital adj.	-47,734	-71,246	-29,093
Net farm income	18,402	-40,565	64,756

Table 6

PROFITABILITY MEASURES, 2000 **Dairy Farms in Michigan's U. P.** (Farms sorted by Net Farm Income)

	Avg. Of All Farms	<u>Low 33%</u>	<u> High 34%</u>
Number of farms	19	6	7
Profitability (assets valued at cost) Net farm income Labor and management earnings Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	18,402 -3,835 -0.8 % -8.0 % -2.0 % 41.0 %	-40,565 -61,103 -4.0 % -21.8 % -11.5 % 35.1 %	64,756 40,990 3.9 % 1.5 % 8.4 % 46.8 %
Interest on farm net worth 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	22,237 23,872 48,153 -5,879 709,463 -29,751 370,613 290,730	20,538 38,675 34,167 -36,057 895,755 -74,732 342,304 314,811	23,766 19,171 58,770 25,156 638,732 5,986 396,107 299,107
	Avg. Of All Farms		High 34%
Number of farms	19	6	7
Profitability (assets valued at market) Net farm income Labor and management earnings Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	76,274 25,067 4.4 % 3.3 % 17.9 % 24.4 %	-6,925 -63,255 -0.2 % -4.4 % -0.8 % 21.1 %	114,158 66,778 7.2 % 7.0 % 24.9 % 29.0 %
Interest on farm net worth Farm interest expense Value of operator lbr and mgmt. Return on farm assets Average farm assets 1 Return on farm equity Average farm equity Value of farm production	51,208 23,872 48,153 51,994 ,192,314 28,122 853,465 290,730	56,331 38,675 34,167 -2,417 1,492,294 -41,091 938,843 314,811	47,380 19,171 58,770 74,559 1,032,292 55,388 789,667 299,107

Table 7

LIQUIDITY MEASURES, 2000 **Dairy Farms in Michigan's U.P.** (Farms Sorted By Net Farm Income)

	Avg. Of <u>All Farms</u>	Low 33%	<u> High 34%</u>
Number of farms	19	6	7
Liquidity (cash) Net cash farm income Net nonfarm income Family living and taxes Real estate principal payments Cash available for interm. debt Average intermediate debt	90,462	85,689	104,144
	4,627	8,863	1,259
	45,963	33,017	64,624
	7,658	10,084	9,943
	41,468	51,451	30,836
	113,168	142,728	110,587
Years to turnover interm. debt	2.7	2.8	3.6
Expense as a % of income	76 %	82 %	73 %
Interest as a % of income	6 %	8 %	5 %
Liquidity (accrual) Total accrual farm income Total accrual operating expense Net accrual operating income Net nonfarm income Family living and taxes Real estate principal payments Available for intermediate debt Average intermediate debt	371,751	437,658	373,172
	305,615	406,977	279,323
	66,136	30,681	93,849
	4,627	8,863	1,259
	45,963	33,017	64,624
	7,658	10,084	9,943
	17,142	-3,558	20,541
	113,168	142,728	110,587
Years to turnover interm. debt Expense as a % of income Interest as a % of income	6.6 82 % 6 %	** 93	5.4 75 % 5 %

^{**} Income insufficient to meet debt servicing requirements

BALANCE SHEET AT COST VALUES, 2000 **Dairy Farms in Michigan's U. P.** (Farms sorted by Net Farm Income)

	Avg. <u>All</u> Fa		Low	33%	Hig	h 34%
Number of farms	19	9		6		7
	Beginning	Ending	Beginning	Ending	Beginning	Ending
Assets						
Current Farm Assets Cash and checking balance	1,705	11,104	3,679	19,417	-164	12,454
Prepaid expenses & supplies	18,248	8,761	20,324	3,556	11,495	8,013
Growing crops	5,705	2,697	0	0	15,484	7,321
Accounts receivable	15,887	10,973	21,113	12,169	10,183	8,468
Hedging accounts	0	0	0	0	0	0
Crops held for sale or feed	88,185	82,706	108,522	84,126	93,364	95,286
Crops under government loan Market livestock held for sale	0 14,425	0 16,078	0 7,687	0 8,042	0 10,172	0 13,464
Other current assets	1,556	706	3,208	1,750	1,040	13,404
Total current farm assets	145,711	133,024	164,533	129,060	141,574	145,006
Intermediate Farm Assets						
Breeding livestock	244,199	243,645	306,821	287,813	228,857	238,754
Machinery and equipment	114,556	110,800	112,940	114,021	104,270	100,917
Other intermediate assets	2,797	3,574	5,890	6,665	888	1,999
Total intermediate farm assets	361,552	358,019	425,650	408,498	334,015	341,670
Long Term Farm Assets						
Farm land	92,158	89,916	125,477	124,537	67,435	67,812
Buildings and improvements	107,307	98,815	180,013	171,373	81,319	71,081
Other long-term assets Total long-term farm assets	14,806 214,271	17,618 206,349	30,278 335,768	32,091	10,755 159,509	16,797 155,690
Total Farm Assets	721,534	697,392	925,951	328,000 865,558	635,098	642,365
Total Nonfarm Assets	26,127	24 024	53,991	49,561	13,739	10 105
Total Assets	747,661	24,934 722,325	979,942	915,119	648,837	12,125 654,490
Liabilities						
Current Farm Liabilities						
Accrued interest	0	0	0	0	0	0
Accounts payable	2,902	5,142	9,057	12,854	92	1,202
Current notes	29,266	34,681		20,580	26,386	47,453
Government crop loans	0	0	0	0	0	0
Principal due on term debt Total current farm liabilities	12,321 44,488	21,910 61,734	11,542 45,704	31,208 64,642	18,461 44,940	20,194 68,849
Total intermediate farm liabs	109,649	07 042	125 255	107 550	107 700	02 220
Total long term farm liabilities	185,646	97,843 178,339	135,255 369,366	127,550 364,384	107,790 89,712	93,320 80,638
Total farm liabilities	339,783	337,916	550,325	556,576	242,442	242,807
Total nonfarm liabilities	0	0	0	0	0	0
Total liabilities	339,783	337,916	550,325	556,576	242,442	242,807
Net worth (farm and nonfarm)	407,878	384,410	429,617	358,543	406,395	411,683
Net worth change		,468		,074		,288
Ratio Analysis						
Current farm liabilities / assets	31 %	46 %	28 %	50 %	32 %	47 %
Curr. & interm farm liab. / assets	30 %	32 %	31 %	36 %	32 %	33 %
Long term farm liab. / assets	87 %	86 %	110 %	111 %	56 %	52 %
Total debt to asset ratio	45 %	47 %	56 %	61 %	37 %	37 %

BALANCE SHEET AT MARKET VALUES, 2000 **Dairy Farms in Michigan's U. P.** (Farms sorted by Net Farm Income)

Number of farms		g. Of <u>Farms</u> 19	Low	33% 6	Higl	1 34% 7
	Beginning	Endina	Beginning	Endina	Beginning	Ending
Assets	begiiniing	Enaing	Degiiiiiiig	Enaing	Degiming	Enaing
Current Farm Assets						
Cash and checking balance	1,705					12,454
Prepaid expenses & supplies	18,248					8,013
Growing crops Accounts receivable	5,705 15,887			0 12,169	- , -	7,321 8,468
Hedging accounts	13,007					0,400
Crops held for sale or feed	88,185					95,286
Crops under government loan	0	0	0	0		0
Market livestock held for sale	14,425			8,042		13,464
Other current assets	1,556					
Total current farm assets	145,711	133,024	164,533	129,060	141,574	145,006
Intermediate Farm Assets						
Breeding livestock	244,199					238,754
Machinery and equipment	222,652					211,463
Other intermediate assets	16,553					41,040
Total intermediate farm assets	483,403	488,321	546,603	519,830	467,422	491,256
Long Term Farm Assets						
Farm land	375,592					274,614
Buildings and improvements	153,938					133,474
Other long-term assets Total long-term farm assets	16,804 546,334					16,276 424,364
Total Farm Assets					1,003,957	
Total Talm Abbeeb	1,1,3,113	1,200,100	1,303,070	1,170,510	1,003,337	1,000,027
Total Nonfarm Assets	52,585					40,320
Total Assets	1,228,033	1,263,120	1,614,975	1,590,252	1,044,578	1,100,947
Liabilities						
Current Farm Liabilities						
Accrued interest	0	0			0	0
Accounts payable	2,902					,
Current notes	29,266					47,453
Government crop loans Principal due on term debt	0 12,321					0 20,194
Total current farm liabilities	44,488					
	,	,	,		, .	,
Total intermediate farm liabs	109,649					
Total long term farm liabilities	185,646					80,638
Total farm liabilities	339,783	337,916	550,325	556,576	242,442	242,807
Total nonfarm liabilities	0	0	0	0	0	0
Total liabs excluding deferreds	339,783	337,916	550,325	556,576	242,442	242,807
Total deferred liabilities	0					0
Total liabilities	339,783	337,916	550,325	556,576	242,442	242,807
Retained earnings	407,878	384,410	429,617	358,543	406,395	411,683
Market valuation equity	480,372		635,033	675,133		446,457
Net worth (farm and nonfarm)	888,250		1,064,650			858,140
Net worth excluding deferreds	888,250		1,064,650			858,140
Net worth change	36	,954	-30	,974	56	,004
Ratio Analysis						
Current farm liabilities / assets	31 %	46 %	28 %	50 %		47 %
Curr. & interm farm liab. / assets	25 %		25 %	30 %		25 %
Long term farm liab. / assets Total debt to asset ratio	34 % 28 %		46 % 34 %	44 % 35 %		19 %
Debt to asset ratio	28 % 28 %		34 % 34 %	35 % 35 %		22 % 22 %
2222 to appear that actuations	20 %	۵, ۰۵	51 0	<i>55</i> %	٥- د ک	22 0

Table 10

STATEMENT OF CASH FLOWS, 2000**Dairy Farms in Michigan's U. P.** (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 33%	High 34%
Number of farms	19	6	7
Beginning cash (farm & nonfarm)	1,705	3,679	-164
Cash From Operating Activities Gross cash farm income Net nonfarm income Total cash farm expense Apparent family living expense Income and social security tax Cash from operations	384,350 4,627 -293,888 -42,515 -3,448 49,126	-27,123 -5,894	-61,055 -3,569
Cash From Investing Activities Sale of breeding livestock Sale of machinery & equipment Sale of farm land Sale of farm buildings Sale of other farm assets Sale of nonfarm assets Purchase of breeding livestock Purchase of machinery & equip. Purchase of farm land Purchase of farm buildings Purchase of other farm assets Purchase of nonfarm assets Cash from investing activities	- 1,563 1,297 - 135 - -579 -32,778 -398 -5,658 -1,204 -311 -37,933	3,417 - 102 - -1,658 -35,044 - -11,689 -2,394 -984 -48,250	-1,217 -
Cash From Financing Activities Money borrowed Cash gifts and inheritances Principal payments Dividends paid Gifts given Cash from financing activities Net change in cash balance	60,255 2,492 -64,384 - -158 -1,795	74,988 - -72,535 - 2,453 15,738	61,820 5,563 -62,564 - -429 4,391 12,618
Ending cash (farm & nonfarm)	11,104		

Table 11

FINANCIAL STANDARDS MEASURES, 2000 **Dairy Farms in Michigan's U. P.** (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 33%	High 34%
Number of farms	19	6	7
Liquidity: end of year Current ratio Working capital	2.15 71,291	2.00 64,418	2.11 76,157
Solvency (market): end of year Farm debt to asset ratio Farm equity to asset ratio Farm debt to equity ratio	28 % 72 % 39 %	38 % 62 % 60 %	23 % 77 % 30 %
Profitability (cost) Rate of return on farm assets Rate of return on farm equity Operating profit margin Net farm income	-0.8 % -8.0 % -2.0 % 18,402	-21.8 % -11.5 %	8.4 %
Repayment Capacity Term debt coverage ratio Capital replacement margin	178 % 12,479		
Efficiency Asset turnover rate (cost) Operating expense ratio Depreciation expense ratio Interest expense ratio Net farm income ratio	41.0 % 75.8 % 12.8 % 6.4 % 4.9 %	16.3 %	7.8 % 5.1 %

Table 12

FINANCIAL SUMMARY, 2000 **Dairy Farms in Michigan's U. P.** (Farms Sorted By Net Farm Income) Avg. Of

Number of farms	Avg. Of All Farms 19	Low 33% 6	<u>High 34%</u> 7
Income Statement Gross cash farm income Total cash farm expense Net cash farm income Inventory change Depreciation and capital adjust Net farm income	384,350 293,888 90,462 -24,326 -47,734 18,402	472,102 386,412 85,689 -55,008 -71,246 -40,565	104,144 -10,295 -29,093
Profitability (cost) Labor and management earnings Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	-3,835 -0.8 % -8.0 % -2.0 % 41.0 %	-4.0 % -21.8 % -11.5 %	8.4 %
Profitability (market) Labor and management earnings Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	25,067 4.4 % 3.3 % 17.9 % 24.4 %	-0.2 % -4.4 %	7.2 % 7.0 %
Liquidity Term debt coverage ratio Expense as a percent of income Interest as a percent of income	177.5 % 82.2 % 6.4 %	55.1 % 93.0 % 8.8 %	
Solvency (cost) Number of farms Ending farm assets Ending farm liabilities Ending total assets Ending total liabilities Ending net worth Net worth change Ending farm debt to asset ratio Beg total debt to asset ratio End total debt to asset ratio	19 697,392 337,916 722,325 337,916 384,410 -23,468 48 % 45 % 47 %	64 %	242,807 654,490 242,807 411,683 5,288 38 %
Solvency (market) Number of farms Ending farm assets Ending farm liabilities Ending total assets Ending total liabilities Ending net worth Net worth change Ending farm debt to asset ratio Beg total debt to asset ratio End total debt to asset ratio Nonfarm Information	19 1,209,180 337,916 1,263,120 337,916 925,205 36,954 28 % 28 % 27 %	6 1,478,918 556,576 1,590,252 556,576 1,033,676 -30,974 38 % 34 % 35 %	7 1,060,627 242,807 1,100,947 242,807 858,140 56,004 23 % 23 % 22 %
Net nonfarm income	4,627	8,863	1,259

Table 13

OPERATOR AND LABOR INFORMATION, 2000 Dairy Farms in Michigan's U. P.

(Farms Sorted By Net Farm Income)

	Avg. Of	- 220	
	All Farms	Low 33%	High 34%
Number of farms	19	6	7
Operator Information			
Average number of operators	1.6	1.2	2.0
Average age of operators	50.5	47.0	52.0
Average number of years farming	23.2	24.0	19.1
Results Per Operator			
Working capital	45,151	55,215	38,078
Total assets (market)	799,976	1,363,073	550,473
Total liabilities	214,013	477,065	121,404
Net worth (market)	585,963	886,008	429,070
Net worth excl deferred liabs	585,963	886,008	429,070
Gross farm income	235,442	375,135	186,586
Total farm expense	223,788		154,208
Net farm income	11,654	-34,770	32,378
Net nonfarm income	2,931	7,596	630
Family living withdrawals	29,110	28,300	32,312
Labor Analysis			
Number of farms	19	6	7
Total unpaid labor hours	4,878	3,133	6,174
Total hired labor hours	3,930	6,237	3,538
Total labor hours per farm	8,808	9,371	9,712
Unpaid hours per operator	3,090	2,686	3,087
Value of farm production / hour	33.01	33.60	30.80
Net farm income / unpaid hour	3.77	-12.95	10.49