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Staff Paper

2002 Business Analysis Summary Feeder Steers

Eric Wittenberg And Roy Black

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2002 Michigan Feeder Steer Business Analysis Summary

2002 Michigan Telfarm and Farm Credit Services Data Staff Paper No. 03-21

By

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2002 Michigan Feeder Steer Farm Business Analysis Summary

by Eric Wittenberg and Roy Black¹

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Executive Summary

This report summarizes the financial and production records of 10 Michigan feeder steer farms. To be included, the farms must have produced at least 50 percent of gross cash farm income from feeder steer sales. The records came from Michigan State University's TelFarm/MicroTel project, the Farm Credit Service system, or by AgriSolutions in Michigan. The values were pooled into averages for reporting purposes.

Farm records were included if a farm financial summary was completed on 2002 data including beginning and ending balance sheets, plus income and expenses. The data were checked to verify that cash discrepancy was less than 10% of gross cash inflow and that debt discrepancy was less than \$1,000. While considerable variation in the data exists, average values are reported in the summary tables below.

Data Sorting

The 2002 Business Summary uses different sort criteria than previous summaries. In the past, farm financial data were sorted on Net Farm Income (NFI), which is a dollar measure of profit. For 2002, the sort uses the Rate of Return to Assets (ROA), which is a measure of profitability adjusted for value of assets. The switch from using net farm income to rate of return on assets for sorting does not change the average values across all farms but does affect the average of the low 50 percent and average of the high 50 percent farm results.

ROA is calculated as the net farm income plus interest minus the value of unpaid labor and management divided by the average total farm asset. Rate of return on assets is a measure of how much profit the farm business assets generated. Accounting for total farm assets allows for a meaningful comparison across all farm sizes (e.g., operations 50 steers and those with 1000 steers). ROA reveals how both equity and borrowed capital are performing, that is ROA is calculated as if the farm had no debt. ROA is the return to all assets.

Summary of Results

In 2002, the average feeder steer farm in the business analysis sold 1352 head with an average price per head of \$833 (Table 1), the price per hundredweight was not available from the data. The average net farm income for the 10 feeder steer farms in this business analysis was a negative \$66,812 and the median was \$36,857.

Table 1. Average 2002 Michigan Feeder Steer Farm Characteristics

Average number of head	1352
Average price sold (\$/head)	833
Total acres owned	535
Total crop acres	1312
Number of farms	10

An income statement calculates profits, which are net farm income in this case. The net farm income value is the return to operator unpaid management, labor and capital invested. Net farm income in 2002 averaged a negative \$66,812, Table 2. This average somewhat obscures a very large range of net farm income values. For example, the farms in the top 50 percent of the net farm income distribution averaged \$54,487 while those in the bottom 50 percent had a negative \$188,111. The average does illustrate that 2002 was a tough year.

Gross cash farm income averaged \$1,354,980 in 2002. The largest component of these revenues were beef, finish yearling steers, these sales averaged \$1,104,094. The second largest of the revenues are soybeans at \$74,701 and the third was corn at \$48,055. Government payments added additional revenue of \$32,924.

Average total cash expenses were \$1,172,214 in 2002 and average net cash farm income was \$182,766. Crops and feed inventories, market livestock, prepaid expenses and supplies, and accounts receivable decreased, the average total inventories change was a negative \$187,760.

Table 2. Average 2002 Michigan Feeder Steer Farm Income Statement

	2002
	(\$)
Gross cash farm income	1,354,980
Total cash expense	1,172,214
Net cash farm income	182,766
Inventory change	-187,760
Depreciation and capital adjustments	-61,818
Net farm income	-66,812

Four key financial performance indicators are presented in Table 3. The rate of on assets (ROA) is calculated as the net farm income plus interest minus the value of unpaid labor and management divided by the average total farm asset. ROA indicates the farm earnings, as a percentage of invested assets and ROA provides the key summary performance indicator for your farm. The rate of return on equity (ROE) is calculated as the net farm income plus interest minus the value of unpaid labor and management divided by the total net farm worth. ROE represents the farms earnings on net worth and is expressed as a percentage of own equity capital. Ideally the ROE should be greater than the ROA indicating that money is being made on borrowed capital (conversely which is the case in Table 3). Operating profit margin (OPM) 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. The return on assets depends on asset turnover rate (ATR), which is the gross farm revenues divided by average asset value. Asset turnover measures the efficiency with which farm assets generate revenue.

The average 2002 (Table 3) feeder steer farm ROA was a negative 7.4 percent which was 535 percent below the 2001 average feeder steer farm ROA of 1.7 percent. Return on equity had similar losses at 481 percent. The operating profit margin for 2002, feeder steer farms generated a negative 18.9 cents of profit per dollar of revenue. In 2001 and 2000 the average operating profit margins were 4.3 and 17.7, respectively. Asset turnover ratio in 2002, this ratio was 39.1 percent remained very close to 2001 and 2000 value, meaning that the farm assets were a little less efficient then in 2001. It should be noted that the profitability indicators for the three years in Table 3 were calculated from the same 10 feeder steer farms, providing a more meaningful analysis over time.

Table 3. Average Michigan Feeder Steer Farm Profitability Indicators, 2000-2002

	2000	2001	2002
		(percent)	
Rate of return on assets*	6.7	1.7	-7.4
Rate of return on equity	10.5	-0.6	-29.5
Operating profit margin	17.7	4.3	-18.9
Asset turnover rate*	37.7	40.8	39.1

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

Table 4 Crop Production and Marketing Summary
Michigan Feeder Steer Report, 2002

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

	Avg. Of All Farms	Low 50%	High 50%
Number of farms	10	5	5
Acreage Summary			
Total acres owned	525	730	320
Total crop acres	1,312	1,390	1,233
Crop acres owned	374	586	162
Crop acres cash rented	937	804	1,071
Crop acres share rented	_	_	_
Total pasture acres	_	_	-
Average Price Received (Cash Sales On	ly)		
Corn per bushel	2.20	-	_
Soybeans per bushel	5.02	-	_

Table 5 Farm Income Statement

Michigan Feeder Steer Report, 2002

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

	Avg. Of		
	All Farms	Low 50%	High 50%
Number of farms	10	5	5
Cash Farm Income			
Corn	48,055	24,793	71,317
Corn Silage	7,216	14,432	_
Hay, Alfalfa	1,795	1,211	2,378
Hay, Mixed	53	_	105
Haylage, Alfalfa	7,461	772	14,150
Haylage, Mixed	921	1,843	-
Oats	387	774	-
Soybeans	74,701	76,172	73,229
Wheat, Winter	6,960	6,420	7,500
Other crops	7,633	-	15,266
Miscellaneous crop income	17	15	18
Beef Bulls	1,205		-
Beef Cow-Calf, Beef Calves	334	669	-
Beef, Finish Yrlg Steers	1,104,094	• •	747,516
Hogs, Farrow-Fin, Raised Hogs	17,919		35,838
Sheep, Feeder Lambs, Fdr Lambs	577	1,153	_
Beef, Finish Cull Cows	168	336	_
Cull breeding livestock	553		1,105
Misc. livestock income	32	63	_
Direct & CC govt payments	4,206	=	1,950
Other government payments	•	30,700	•
Custom work income	14,610		•
Insurance income	15,205	•	
Contract livestock income	5,942		
Other farm income	6,219	•	•
Gross Cash Farm Income	1,354,980	1,697,155	1,012,805

Table 5 (continued) Farm Income Statement

Michigan Feeder Steer Report, 2002

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

Avg. Of All Farms Low 50% High 50% 5 Number of farms 10 5 Cash Farm Expense 28,865 37,036 20,693 49,561 48,406 50,716 Seed Fertilizer Crop chemicals 27,557 32,280 22,833 Crop insurance 240 2,221 4,202 Drying fuel 1,055 261 1,849 Hauling and trucking 203 406 406 195 Crop marketing
Crop miscellaneous 616 2,173 3,743 603 661,639 881,453 441,825 101,725 133,444 70,007 426 434 417 Feeder livestock purchase Purchased feed 426 434 6,798 9,740 2,765 3,854 5,429 4,142 Breeding fees 3,856 1,675 6,715 Veterinary Livestock supplies
Livestock marketing 5,429 88 - 17, 33,571 32,880 34,263 2,330 4,659 -18,469 20,942 15,996 24,234 27,128 Livestock miscellaneous Interest. Packaging and supplies Fuel & oil 34,234 34,127 57,997 Repairs 11,966 Custom hire 23,046 Hired labor 52,911 47,824 47,943 45,516 Land rent 50,370 3,670 7,325 8,365 11,276 11,952 11,968 Machinery & bldg leases 15 5,453 Real estate taxes 11,936 Farm insurance 8,273 9,207 14,191 16,514 25,903 49 107 Utilities 7,339 11,867 2,680 849,466 Dues & professional fees Miscellaneous 1,172,214 1,494,962 Total cash expense Net cash farm income 182,766 202,194 163,339 Inventory Changes -5,349 -14,154 3,457 184,110 -283,299 -84,922 2,621 -438 Crops and feed Market livestock Accounts receivable -184,110 -2,621 -1,530 -6,517 Prepaid expenses and supplies 522 -13,555 9,745 -26,669 Accounts payable 46,159 Total inventory change -187,760 -326,221 -49,299 -124,027 -4.994 114,039 Net operating profit Depreciation and Other Capital Adjustments Machinery and equipment 8,067 3,776 -515 -59,721 -51,324 -68,118 Buildings and improvements -9,314 -6,673 -4,032 Other farm capital 801 1,601 Total depr. and other capital adj -61,818 -64,084 -59,553

Net farm income

-66,812 -188,111

54,487

Table 6 Inventory Changes

Michigan Feeder Steer Report, 2002

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

	Avg. Of All Farms	Low 50%	High 50%
Number of farms	10	5	5
Net cash farm income	182,766	202,194	163,339
Crops and Feed Ending inventory Beginning inventory Inventory change	158,543 163,892 -5,349	165,927 180,081 -14,154	151,159 147,702 3,457
Market Livestock Ending inventory Beginning inventory Inventory change	204,721 388,831 -184,110	•	284,448 369,370 -84,922
Accts Receivable & Other Current A Ending inventory Beginning inventory Inventory change	9,157 10,687 -1,530	14,882 17,502 -2,621	3,433 3,871 -438
Prepaid Expenses and Supplies Ending inventory Beginning inventory Inventory change	15,717 22,234 -6,517	28,360 27,838 522	3,075 16,630 -13,555
Accounts Payable & Accrued Expense Beginning inventory Ending inventory Inventory change	5 77,132 67,387 9,745	85,153 111,822 -26,669	69,110 22,951 46,159
Total inventory change	-187,760	-326,221	-49,299
Net operating profit	-4,994	-124,027	114,039

Table 7 Depreciation and Other Capital Adjustments

Michigan Feeder Steer Report, 2002

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

	Avg. Of All Farms	Low 50%	High 50%
Number of farms	10	5	5
Net operating profit	-4,994	-124,027	114,039
Breeding Livestock Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust.	35,476 13 27,046 4,667 3,776	70,510 - 53,650 8,793 8,067	441 25 441 540 -515
Machinery and Equipment Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust.	146,343 1,600 147,693 59,971 -59,721	135,638 3,201 172,554 34,403 -68,118	85,540
Buildings and Improvements Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust.	72,737 - 56,747 22,663 -6,673	47,122 - 50,004 1,150 -4,032	98,351 - 63,489 44,176 -9,314
Other Capital Assets Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust.	20,554 11,503 20,720 10,536 801	37,227 2,575 37,691 2,111	3,880 20,431 3,749 18,961 1,601
Total depreciation, capital adj.	-61,818	-64,084	-59,553
Net farm income	-66,812	-188,111	54,487

Table 8 Profitability Measures

Michigan Feeder Steer Report, 2002

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

	Avg. Of All Farms	Low 50%	High 50%
Number of farms	10	5	5
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	-66,812 -93,290 -7.4 % -29.5 % -18.9 % 39.1 %	-188,111 -223,020 -19.2 % -55.8 % -54.8 % 35.0 %	54,487 36,439 6.4 % 9.0 % 14.6 % 43.9 %
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	26,478 32,963 42,496 -76,344 1,033,983 -109,308 370,483 404,403	34,909 31,704 57,527 -213,933 1,114,781 -245,638 440,179 390,251	18,047 34,223 27,465 61,244 953,185 27,022 300,787 418,554
	Avg. Of All Farms	Low 50%	High 50%
Number of farms	10	5	5
Profitability (assets valued at marke Net farm income Labor and management earnings Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	-30,692 -108,049 -2.1 % -5.7 % -9.9 % 20.7 %	-208,988 -310,388 -9.9 % -15.8 % -60.2 % 16.5 %	147,604 94,290 10.0 % 13.5 % 36.9 % 27.2 %
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	77,357 32,963 42,496 -40,224 1,952,789 -73,187 1,289,289 404,403	101,400 31,704 57,527 -234,810 2,364,604 -266,514 1,690,003 390,251	53,314 34,223 27,465 154,362 1,540,973 120,139 888,575 418,554

Table 9 Liquidity Measures

Michigan Feeder Steer Report, 2002

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

	Avg. Of All Farms	Low 50%	High 50%
Number of farms	10	5	5
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	182,766	202,194	163,339
	11,961	22,044	1,877
	40,810	37,256	44,365
	9,702	17,123	2,281
	144,214	169,858	118,570
	222,753	237,620	207,887
Years to turnover interm. debt	1.5	1.4	1.8
Expense as a % of income	87 %	88 %	84 %
Interest as a % of income	2 %	2 %	3 %
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	1,163,991	1,397,082	930,901
	1,168,985	1,521,109	816,862
	-4,994	-124,027	114,039
	11,961	22,044	1,877
	40,810	37,256	44,365
	9,702	17,123	2,281
	-43,546	-156,362	69,271
	222,753	237,620	207,887
Years to turnover interm. debt Expense as a % of income Interest as a % of income	** 100	** 109	3.0 88 % 4 %

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

Table 10 Balance Sheet at Cost Values Michigan Feeder Steer Report, 2002 (Farms Sorted By Rate of Return on Assets - Cost)

	Arra Of					
	Avg. Of All Farms		Low 50	8	High 50	8
Number of farms	10		5		5	
	Beginning	Ending	Beginning	Ending	Beginning	Ending
Assets						
Current Farm Assets	24 600	00 056	24 126	15 600	05 071	06.000
Cash and checking balance Prepaid expenses & supplies	24,699 22,234	20,856 15,717		15,622 28,360	25,271 16,630	26,089 3,075
Growing crops	3,427	4,722	4,619	6,741	2,235	2,703
Accounts receivable	7,035	4,210	12,883	8,141		280
Hedging accounts	0	0		0	0	0
Crops held for sale or feed	163,892	158,543	180,081	165,927	147,702	151,159
Crops under government loan	0	0	0	0	0	0
Market livestock held for sale	388,831	204,721	408,292	124,993	369,370	284,448
Other current assets	225	225		0	450	450
Total current farm assets	610,342	408,994	657,839	349,784	562,845	468,203
Intermediate Farm Assets						
Breeding livestock	27,046	35,476	53,650	70,510	441	441
Machinery and equipment	147,693	146,343		135,638	122,832	157,047
Titled vehicles Other intermediate assets	10.045	10 613	0	0	0	0
Total intermediate farm assets	18,845 193,584	18,613 200,432		37,227 243,375	123,274	157,489
Total Intermediate Tarm assets	193,364	200,432	203,093	243,373	123,274	137,409
Long Term Farm Assets						
Farm land	246,871	274,446		308,771	184,971	240,121
Buildings and improvements	56,747	72,737		47,122	63,489	98,351
Other long-term assets	1,875	1,940	0	0	3,749	3,880
Total long-term farm assets Total Farm Assets	305,492	349,123	358,776	355,894		342,352
TOTAL FARM ASSELS	1,109,418	958,548	1,280,509	949,052	938,327	968,044
Total Nonfarm Assets	11,277	11,129	19,354	19,058	3,200	3,200
Total Assets	1,120,695	969,677	1,299,863	968,111	941,527	971,244
Liabilities						
Current Farm Liabilities						
Accrued interest	4,727	4,120	9,354	8,179	100	60
Accounts payable	72,405	63,267		103,643		22,891
Current notes	218,497	145,439		91,090	222,728	199,787
Government crop loans	0	0 730		0	0	0
Principal due on term debt Total current farm liabilities	27,912	29,739		57,133		2,345
Total Cuffent Tarm Trabilities	323,540	242,564	350,644	260,045	296,436	225,084
Total intermediate farm liabs	209,831	196,906	211,495	190,867	208,168	202,944
Total long term farm liabilities	157,736	196,423	175,770	160,382	139,701	232,464
Total farm liabilities	691,107	635,893	737,909	611,294	644,305	660,492
Total nonfarm liabilities	0	0	0	0	0	0
Total liabilities	691,107	635,893		611,294		660,492
	,		·	·	·	,
Net worth (farm and nonfarm)	429,588	333,785	561,954	356,817	297,222	310,752
Net worth change		-95,803		-205,137		13,531
Ratio Analysis						
Current farm liabilities / assets	53 %	59 %	53 %	74 %	53 %	48 %
Curr. & interm farm liab. / assets	66 %	72 %	61 %	76 %	74 %	68 %
Long term farm liab. / assets	52 %	56 %		45 %	55 %	68 %
Total debt to asset ratio	62 %	66 %	57 %	63 %	68 %	68 %

Table 11 Balance Sheet at Market Values
Michigan Feeder Steer Report, 2002

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

	Avg. 0					
Number of forms	All Far		Low 5		High 5	
Number of farms	1	U	:	5	:	5
	Beginning	Ending	Beginning	Ending	Beginning	Ending
Assets						
Current Farm Assets	24 600	20 056	24 126	15 600	25 271	26 000
Cash and checking balance Prepaid expenses & supplies	24,699 22,234					26,089 3,075
Growing crops	3,427				2,235	
Accounts receivable	7,035					280
Hedging accounts	0					0
Crops held for sale or feed	163,892					151,159
Crops under government loan	0					0
Market livestock held for sale	388,831	204,721	408,292	124,993	369,370	284,448
Other current assets	225	225	0	0	450	450
Total current farm assets	610,342	408,994	657,839	349,784	562,845	468,203
Intermediate Farm Assets						
Breeding livestock	28,718	37,540	53,650	70,510	3,786	4,570
Machinery and equipment	479,146					550,491
Titled vehicles	0					0
Other intermediate assets	19,845	19,613	39,691	39,227	0	0
Total intermediate farm assets	527,710	565,165	548,224	575,268	507,196	555,061
Tana Marin Barra Barraha						
Long Term Farm Assets	707 100	005 063	1 250 200	1 106 706	215 000	425 000
Farm land Buildings and improvements	787,100 83,138		1,259,200 75,509			
Other long-term assets	1,875		75,509		,	•
Total long-term farm assets	872,112		1,334,709		- ,	
Total Farm Assets					1,479,556	
Total Nonfarm Assets	39,930	39,936				
Total Assets	2,050,093	1,935,350	2,561,385	2,208,265	1,538,801	1,662,436
Liabilities						
Current Farm Liabilities						
Accrued interest	4,727	4,120	9,354	8,179	100	60
Accounts payable	72,405	63,267	75,799	103,643	69,010	22,891
Current notes	218,497	145,439	214,265	91,090	222,728	199,787
Government crop loans	0					0
Principal due on term debt	27,912					2,345
Total current farm liabilities	323,540	242,564	350,644	260,045	296,436	225,084
Total intermediate farm liabs	209,831	196,906	211,495	190,867	208,168	202,944
Total long term farm liabilities	157,736					
Total farm liabilities	691,107	635,893				660,492
			0	0	0	0
Total nonfarm liabilities Total liabs excluding deferreds	0	0	737 000	611 204	0	0
Total deferred liabilities	691,107 0	635,893 0	737,909 0	611,294 0	644,305 0	660,492 0
Total liabilities	691,107			611,294		660,492
		,,,,,,,	,	,	0 - 2 , 0 0 0	,
Retained earnings	429,588					
Market valuation equity	929,398		1,261,522			
Net worth (farm and nonfarm)			1,823,476			1,001,944
Net worth excluding deferreds	1,358,986		1,823,476			1,001,944
Net worth change		-59,528		-226,505		107,448
Ratio Analysis						
Current farm liabilities / assets	53 %	59 %	53 %	74 %	53 %	48 %
Curr. & interm farm liab. / assets	47 %		47 %	49 %		42 %
Long term farm liab. / assets	18 %		13 %	13 %		40 %
Total debt to asset ratio	34 %	33 %	29 %	28 %		40 %
Debt to assets excl deferreds	34 %	33 %	29 %	28 %	42 %	40 %

Table 12 Statement Of Cash Flows

Michigan Feeder Steer Report, 2002

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

	Avg. Of All Farms	Low 50%	High 50%
			_
Number of farms	10	5	5
Beginning cash (farm & nonfarm)	24,699	24,126	25,271
Cash From Operating Activities			
Gross cash farm income		1,697,155	
Net nonfarm income	11,961		
Total cash farm expense	-1,172,214		
Apparent family living expense		-37,256	-38,878
Income and social security tax	-2,743	_	-5,486
Cash from operations	153,916	186,982	120,851
Cash From Investing Activities			
Sale of breeding livestock	13	_	25
Sale of machinery & equipment	1,600	3,201	_
Sale of titled vehicles	· –	_	_
Sale of farm land	_	_	_
Sale of farm buildings	_	_	_
Sale of other farm assets	11,503	2,575	20,431
Sale of nonfarm assets	· –	_	· –
Purchase of breeding livestock	-4,667	-8,793	-540
Purchase of machinery & equip.	-59,971	-34,403	
Purchase of titled vehicles	, =	<i>.</i>	, _
Purchase of farm land	-29,075	_	-58,150
Purchase of farm buildings	-22,663	-1,150	
Purchase of other farm assets	-10,536		
Purchase of nonfarm assets	-760		
Cash from investing activities		-42,201	
Cash From Financing Activities			
Money borrowed	290 282	253,287	327 278
Cash gifts and inheritances	2,266		4,531
Principal payments	-335,751		
Dividends paid	333,731	100,571	201,052
Gifts given	_	_	_
Cash from financing activities	-43,203	-153,284	66,877
Net change in cash balance	-3,843	-8,503	817
Ending cash (farm & nonfarm)	20,856	15,622	26,089

Table 13 Financial Standards Measures

Michigan Feeder Steer Report, 2002

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

	Avg. Of		
	All Farms	Low 50%	High 50%
Number of farms	10	5	5
Liquidity Current ratio Working capital	1.69	1.35	2.08
	166,429	89,739	243,119
Solvency (market) Farm debt to asset ratio Farm equity to asset ratio Farm debt to equity ratio	34 %	28 %	41 %
	66 %	72 %	59 %
	50 %	39 %	70 %
Profitability (cost) Rate of return on farm assets Rate of return on farm equity Operating profit margin Net farm income	-7.4 % -29.5 % -18.9 % -66,812	-55.8 % -54.8 %	
Repayment Capacity Term debt coverage ratio Capital replacement margin	10 %	-112 %	213 %
	-67,517	-198,465	63,430
Efficiency Asset turnover rate (cost) Operating expense ratio Depreciation expense ratio Interest expense ratio Net farm income ratio	39.1 %	35.0 %	43.9 %
	97.6 %	106.6 %	84.1 %
	5.3 %	4.6 %	6.4 %
	2.8 %	2.3 %	3.7 %
	-5.7 %	-13.5 %	5.9 %

Table 14 Operator and Labor Information

Michigan Feeder Steer Report, 2002

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

	Avg. Of All Farms	Low 50%	High 50%
Number of farms	10	5	5
Operator Information Average number of operators	1.5	1.4	1.6
Average age of operators Average number of years farming	51.2 29.4	47.4 25.0	55.0 33.8
Results Per Operator	110 052	64 000	151 050
Working capital Total assets (market)	110,953 1,290,234	64,099 1,577,332	151,950 1,039,022
Total liabilities Net worth (market)	423,928 866,305	436,638 1,140,694	412,807 626,215
Net worth excl deferred liabs	866,305	1,140,694	626,215
Gross farm income Total farm expense Net farm income	775,994 820,536 -44,541	997,916 1,132,280 -134,365	581,813 547,759 34,054
Net nonfarm income	7,974	15,746	1,173
Family living & tax withdrawals	27,207	26,611	27,728
Total acres owned Total crop acres Crop acres owned Crop acres cash rented Crop acres share rented Total pasture acres	350.0 874.5 249.6 625.0	521.4 993.0 418.8 574.2	200.0 770.8 101.5 669.3
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	10 3,834 3,428 7,262 2,556 55.69 -17.43	5 4,718 3,432 8,150 3,370 47.88 -39.87	5 2,950 3,424 6,374 1,844 65.67 18.47

Table 15 Financial Summary

Michigan Feeder Steer Report, 2002

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

	Avg. Of	T F00	TT - 1- FOR
	All Farms	TOM 20%	High 50%
Number of farms	10	5	5
Income Statement Gross cash farm income	1,354,980	1,697,155	1,012,805
Total cash farm expense	1,172,214	1,494,962	849,466
Net cash farm income	182,766	202,194	163,339
Inventory change	-187,760	-326,221	-49,299
Depreciation and capital adjust	-61,818	-64,084	
Net farm income	-66,812		
Profitability (cost)			
Labor and management earnings	-93,290	-223,020	36,439
Rate of return on assets	-7.4 %	-19.2 %	6.4 %
Rate of return on equity	-29.5 %	-55.8 %	9.0 %
Operating profit margin	-18.9 %	-54.8 %	14.6 %
Asset turnover rate	39.1 %	35.0 %	43.9 %
Profitability (market)			
Labor and management earnings	-108,049	-310,388	94,290
Rate of return on assets	-2.1 %	-9.9 %	10.0 %
Rate of return on equity	-5.7 %	-15.8 %	13.5 %
Operating profit margin	-9.9 %	-60.2 %	36.9 %
Asset turnover rate	20.7 %	16.5 %	27.2 %
Liquidity			
Term debt coverage ratio	9.7 %	-112.4 %	213.0 %
Expense as a percent of income	100.4 %	108.9 %	
Interest as a percent of income	2.8 %	2.3 %	3.7 %
Solvency (cost)			
Number of farms	10	5	5
Ending farm assets	958,548	949,052	968,044
Ending farm liabilities	635,893	611,294	660,492
Ending total assets	969,677	968,111	971,244
Ending total liabilities	635,893	611,294	660,492
Ending net worth	333,785	356,817	310,752
Net worth change	-95,803 66 %	-205,137 64 %	13,531 68 %
Ending farm debt to asset ratio Beg total debt to asset ratio	62 %	57 %	68 %
End total debt to asset ratio	66 %	63 %	68 %
End total dept to asset latio	00 %	05 %	00 %
Solvency (market)	1.0	_	_
Number of farms Ending farm assets	10	2 100 427	1 600 201
Ending farm liabilities	1,895,414 635,893	2,188,437 611,294	1,602,391 660,492
Ending tatm Habilities Ending total assets	1,935,350		
Ending total liabilities	635,893	611,294	660,492
Ending net worth	1,299,458	1,596,971	1,001,944
Net worth change	-59,528	-226,505	107,448
Ending farm debt to asset ratio	34 %	28 %	41 %
Beg total debt to asset ratio	34 %	29 %	42 %
End total debt to asset ratio	33 %	28 %	40 %
Nonfarm Information			
Net nonfarm income	11,961	22,044	1,877
Crop Acres			
Total acres owned	525	730	320
Total crop acres	1,312	1,390	1,233
Total crop acres owned	374	586	162
Total crop acres cash rented	937	804	1,071
Total crop acres share rented	_	_	_