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# Staff Paper

## 2002 Business Analysis Summary Cash Grain Farms

Eric Wittenberg And Gerald Schwab

Staff Paper 2003-18

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#### 2002 Michigan Cash Grain Farm Business Analysis Summary

2002 Michigan TelFarm and AgriSolutions Data Staff Paper No. 03-18

By

Eric Wittenberg And Gerald Schwab

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#### 2002 Michigan Cash Grain Farm Business Analysis Summary

By

Eric Wittenberg and Gerald Schwab<sup>1</sup>

Table of Contents	Page
Executive Summary	2
List of Tables	
Summary Tables	
1) Average 2002 Farm Characteristics	3
2) Average Income Statement	3
3) Average Profitability Indicators	4 5
4) Characteristics by Farm Size	
5) Average Income and Expenses by Farm Size	5
6) Average Profitability Statement by Farm Size (Cost)	6
7) Average Profitability Statement by Farm Size (Market).	6
A) Averages of 78 Cash Grain Farms, All Sizes	
8) Livestock and Crop Production Summary	7
9) Farm Income Statement	8
10) Inventory Changes	10
11) Depreciation and Other Capital Adjustments	11
12) Profitability Measures	12
13) Liquidity Measures	13
14) Balance Sheet at Cost Values	14
15) Balance sheet at Market Values	15
16) Statement of Cash Flows	16
17) Financial Standards Measures	17
18) Operator Information and Nonfarm Summary	18
19) Financial Summary	19

B) Average of 36 Cash Grain Farms, 140 to 799 Acres.....20 Similar tables as previous summary, Tables 20 to 31

<sup>&</sup>lt;sup>1</sup> Co-workers in the TelFarm project were: R. Betz, L. Borton, R. Clark, G. Kole, T. Purdy, W. Schauer, D. Stein, and V. Varner with the assistance of Michigan State University Extension Agents. AgriSolutions co-workers were Kelly Tobin, Steve Eshelman, Janice Raymond, Tiffany Aldrich, Anne Gerke, Kathleen Spranger, and Lynette Wood. Farm Credit Services of Wisconsin co-worker was Steve Zimmerman.

C) Average of 17 Cash Grain Farms, 800 to 1199 Acres	33
Similar tables as previous summary, Tables 32 to 43	
D) Average of 25 Cash Grain Farms, 1200 Acres plus	46
Similar tables as previous summary, Tables 44 to 55	

#### **Executive Summary**

This report summarizes the 2002 financial and production records of 78 Michigan cash grain farms. To be included, the farms must have produced at least 50 percent of gross cash farm income from one or a combination of these items; corn, soybeans, wheat, all varieties of navy beans, oats, and other small grains. 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 analysis 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 size-neutral measure of profitability relative to 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 25% and average of the high 25% 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 with 140 acres and those with 1200 acres). ROA reveals how both equity and borrowed capital are performing, because ROA is calculated as if the farm had no debt. ROA is the return to all assets.

#### Summary of Results

Average size of farms measured in acres is presented in Table 1. However, there is considerable range and variability around this average.

#### Table 1. Average 2002 Michigan Cash Grain Farm Characteristics

Total acres owned	416
Total crop acres (owned & rented)	1132
Number of farms	78

Net farm income is the profit (loss) remaining after all farm expenses and inventory changes have been recognized. The net farm income value is the return to unpaid operator management, labor and equity capital invested, as illustrated in Table 2. Net farm income in 2002 averaged negative \$2,178; and the median was \$10,805, with a standard deviation of \$133,902. This average somewhat obscures a very large range of net farm income values. As illustrated in Table 8, the farms in the top 25 percent of the net farm income distribution averaged \$103,662 while those in the bottom 25 percent had a negative \$125,218. The total difference across the averages of the top versus the bottom groups of farms is \$228,880.

Gross cash farm income averaged \$359,406 in 2002, (Table 2). The two largest components of these revenues were corn and soybeans sales, which averaged \$89,049 and \$88,163, respectively. Government payments averaged \$22,990 per farm in 2002.

Average total cash expenses were \$326,884 in 2002 and average net cash farm income was \$32,522. However, given less taxable income, crop farms were able to build total inventories. While prepaid expenses and supplies did decrease, crops and feed inventories increased, with total inventories increasing an average \$9,624.

Table 2. Average 2002 Mileingan Cash Gra	in rai in meome sta
	2002
	(\$)
Gross cash farm income	359,406
Total cash expense	326,884
Net cash farm income	32,522
Inventory change (positive)	9624
Depreciation and capital adjustments	-44,324
Net farm income	-2178

#### Table 2. Average 2002 Michigan Cash Grain Farm Income Statement

Four key financial performance indicators are presented in Table 3. The rate of return on assets (ROA) is calculated as if the farm has no debt. ROA indicates the farm earnings, after subtracting out an allowance for unpaid operator labor and management, as a percentage of invested assets. ROA provides the key summary performance indicator for your farm. By multiplying the operating profit margin by the asset turnover rate, the ROA is determined. The ROA data presented in Table 3 indicates a troubling trend with declines in performance for recent years.

The rate of return on equity (ROE) represents the farm earnings after interest payments expressed as a percentage of own equity capital. Ideally the ROE should be higher than the ROA indicating that profit is being made on borrowed money (and conversely which is the case in Table 3). This farm summary indicates that profitability on these farms was a challenge in 2002.

Operating profit margin (OPM) measures the dollars of profit generated per dollar of revenue. A negative OPM indicates that the net farm income is not adequate to pay a return to operator's labor and management. In 2002, Michigan cash grain farms generated a negative 4.7 cents of profit per dollar of revenue. Asset turnover ratio measures the efficiency with which farm assets generate revenue. In 2002, this ratio was 49.9 percent and was higher than the 2001 value of 43.5 percent, meaning that the farm assets generated more revenues per dollar invested in farm assets.

2000	2001	2002
	(Percent)	
1.1	-1.3	-2.3
-5.2	-11.3	-15.8
2.4	-3.1	-4.7
48.4	43.5	49.9
	1.1 -5.2	(Percent)           1.1         -1.3           -5.2         -11.3           2.4         -3.1

#### Table 3. Average Michigan Cash Grain Farm Profitability Indicators, 2000-2002

\* Assets valued at <u>cost</u> value (rather than market value).

#### Results by Farm Size

To further facilitate financial comparisons and benchmarking, the financial summaries were categorized by cropped acres, Table 4. The smallest size category, 140 to 799 cropped acres, includes 36 farms. The medium size category, 800 to 1199 cropped acres, includes 17 farms. The largest size category, 1200 plus cropped acres, contains the remaining 25 farms.

140-799	800-1199	1200 +
Acres	Acres	Acres
314	477	522
436	969	2,245
36	17	25
	Acres 314 436	Acres         Acres           314         477           436         969

Table 4. Average 2002 Michigan Cash Grain Farm Characteristics by Farm Size Category

Table 5 presents the average farm income statement by farm acreage size. The smallest farms returned \$8,294; the medium farms \$13,982; and the largest farms a negative \$28,245.

Tuble et li et uge zooz i i i eus		in meenie se	accilience of o
	140-799	800-1199	1200+
	Acres	Acres	Acres
	(\$)	(\$)	(\$)
Gross cash farm income	133,567	307,267	720,070
Total cash expense	112,648	261,326	679,963
Net cash farm income	20,919	45,941	40,107
Inventory change	4,961	16,215	11,858
Depreciation and capital adjustments	-17,586	-48,174	-80,210
Net farm income	8,294	13,982	-28,245

Table 5. Average 2002 Michigan Cash Grain Farm Income Statement by Size

Table 6 compares profitability measures across farm sizes with assets valued at cost. With assets valued on a cost basis, all farms sizes had negative values in three key financial performance indicators ROA, ROE and OPM. ROAs were similar for the smaller size farms (140-799 acres) and larger size farms (1200 + acres), while the mid-sized farms (800-1199 acres) were lightly higher at a negative 1.0 percent in 2002. The mid-sized farms had the highest ROE, a negative 7.4 percent and the highest OPM, a negative 2.1 percent. The smaller size farms had the lowest OPM and the lowest asset turnover ratio, a negative 6.2 percent and 36.8 percent respectively. In contrast, the larger size farms had the highest average asset turnover, a 56.8 percent, but the smallest ROE, a negative 27.5 percent. Keep in mind that these larger farms tend to have less unpaid factors so that the expenses reported are closer to a true economic cost of production for these farms. If the unpaid labor and management on the smaller farms were properly reimbursed, the profit margin would be smaller than the average value reported.

	140-799	800-1199	1200+
	Acres	Acres	Acres
		(Percent)	
Rate of return on assets*	-2.3	-1.0	-2.8
Rate of return on equity	-9.1	-7.4	-27.5
Operating profit margin	-6.2	-2.1	-5.0
Asset turnover rate*	36.8	45.3	56.8

#### Table 6. Average Michigan Cash Grain Farm Profitability Indicators by Size

\* Assets valued at **cost** value (rather than market).

Table 7 compares profitability measures across farm sizes with assets valued at market. The market value approach includes the impact of price appreciation (inflation) of the asset base (land primarily) as a form of income. Financial performance indicators like ROA can be looked upon in this comparison as the "opportunity cost" of farming versus alternative investments. Market value for assets is more appropriate when comparing across different farms (while cost is more appropriate to compare the same farm across time). The smaller size farms had the highest ROA and ROE in 2002. Also, the smaller size farms realized the largest average OPM but had the smallest average asset turnover rate. In contrast, the larger size farms had the highest average asset turnover rate, the smallest operating profit margin, lowest ROA and the lowest ROE.

	140-799	800-1199	1200 +
	Acres	Acres	Acres
		(Percent)	
Rate of return on assets*	5.3	2.7	2.2
Rate of return on equity	5.2	2.1	0.2
Operating profit margin	35.0	13.0	7.2
Asset turnover rate*	15.1	20.8	30.7

#### Table 7. Average Michigan Cash Grain Farm Profitability Indicators by Size

\*Assets valued at **market** value (rather than cost).

The details in deriving these profitability measures are provided in the following pages. The data for the smallest sized farms starts in Section B, page 20, Tables 20 to 31. The data for the mid-sized farms starts in section C, page 33, Tables 32 to 43. The data for the largest size category of farms starts in section D, page 46, Tables 44 to 55.

#### A. Financial Summary Information, All 78 Farms

Table 8 Crop Production and Marketing Summary Michigan Cash Grain, All Sizes 2002 (Farms Sorted By Rate of Return on Assets - Cost) Avg. Of All Farms Low 25% High 25% Number of farms 78 19 20 Acreage Summary Total acres owned 416 292 389 1,132 1,299 Total crop acres 1,084 Crop acres owned 341 200 338 769 1,098 Crop acres cash rented 666 23 Crop acres share rented -80 3 Total pasture acres 1 \_ Average Price Received (Cash Sales Only) 2.12 2.02 2.08 Corn per bushel Soybeans per bushel 4.64 4.48 4.57 Wheat, Winter per bushel 2.92 3.10 2.94 -Straw per ton 6.79 -50.67 30.75 \_ \_ Hay, Mixed per ton Sugar Beets per ton -30.76 \_ Oats per bushel 2.08 2.32 Beans, Navy per cwt 12.27 -13.02 61.52 Hay, Alfalfa per ton --\_ \_ Corn, Seed per bushel 2.87

#### Farm Income Statement Michigan Cash Grain, All Sizes, 2002 (Farms Sorted By Rate of Return on Assets - Cost)

	Avg. Of All Farms	Low 25%	High 25%
Number of farms	78	19	20
Cash Farm Income			
Apples	793	3,257	_
Beans, Black Turtle	379	5,257	1,480
Beans, Green	5,144	3,260	1,400
Beans, Light Red Kidney	259	5,200	1,008
Beans, Navy	4,275	5,110	5,930
Beans, Small Red	140	5,110	546
Clover Seed	205	_	-
Corn	89,049	87,829	97,427
Corn Silage	2,199	7,017	-
Corn, Ear	692	-	_
Corn, Seed	22,758	12,307	_
Cucumbers	7,867		_
Hay, Alfalfa	1,235	1,004	920
Hay, Mixed	4,208	3,889	8,340
Haylage, Alfalfa	1,840	7,198	_
Haylage, Mixed	374	-	_
Oatlage	63	260	_
Oats	1,799	57	1,289
Potatoes	5,956	24,452	_
Soybeans	88,163	93,894	93,071
Soybeans Seed	1,553	-	-
Straw	1,784	84	2,199
Sugar Beets	13,968	7,622	42,235
Sweet Corn	2,407	-	· _
Wheat, Durum	1,042	-	4,063
Wheat, Spring	1,429	661	408
Wheat, Winter	18,615	25,948	14,802
Barley, Seed	218	-	-
Wheat, Seed	315	-	-
Other crops	122	-	476
Miscellaneous crop income	108	28	-
Beef Cow-Calf, Beef Calves	819	-	647
Beef, Finish Beef Calves	1,739	-	613
Beef, Finish Yrlg Steers	791	-	643
Broilers	49	-	192
Dairy Heifers (for sale)	2,026	8,316	-
Dairy Replacement Heifers	383	-	-
Dairy Steers	239	928	51
Hogs, Farrow-Fin, Raised Hogs	2,209	-	-
Hogs, Finish Feeder Pigs	3,678	15,097	-
Horses, Boarding	37	132	-
Sheep, Market Lambs, Mkt Lambs	765	-	_
Hogs, Weaning to Finish	1,819	-	567
Cull breeding livestock	574	12	675
Misc. livestock income	486	764	-
Direct & CC govt payments	5,360	3,458	6,098
Other government payments	17,630	19,402	19,225
Custom work income	16,894	29,634	5,357
Patronage dividends, cash	172	35	493
Insurance income	8,130	8,714	7,996 9,719
Other farm income Gross Cash Farm Income	16,648 359,406	30,364 400,734	326,471
GLOBD CADIL LATIN THCOME	559,400	100,/34	JZU, 7/1

#### Table 9, (continued)

#### d) Farm Income Statement Michigan Cash Grain, All Sizes, 2002

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

	Avg. Of	T and 000	
	All Farms	Low 25%	High 25%
Number of farms	78	19	20
Cash Farm Expense			
Seed	30,111	33,134	27,281
Fertilizer	46,678	52,516	41,469
Crop chemicals	28,358	31,406	34,068
Crop insurance	1,707	2,703	203
Drying fuel	909	5	1,570
Irrigation energy	821	1,491	-
Crop custom hire	58	-	226
Hauling and trucking	344	119	746
Crop marketing	1,854	409	3,292
Crop miscellaneous	1,572	3,368	2,163
Feeder livestock purchase	2,771	4,982	-
Purchased feed	5,758	4,805	353
Veterinary	518	935	32
Livestock supplies	817	1,073	313
Livestock marketing Interest	281	792	-
	23,686 212	23,442	17,271 476
Packaging and supplies Fuel & oil	13,078	13,723	12,826
Repairs	26,814	25,499	23,249
Custom hire	13,736	20,418	6,175
Hired labor	21,967	31,599	18,394
Land rent	57,109	93,436	49,730
Machinery & bldg leases	4,026	1,814	3,037
Real estate taxes	6,894	6,982	4,934
Personal property taxes	300	640	562
Farm insurance	10,336	13,150	7,782
Utilities	6,668	6,424	3,513
Dues & professional fees	3,580	5,870	2,517
Hedging account deposits	150	263	138
Miscellaneous	15,773	31,971	6,307
Total cash expense	326,884	412,968	268,626
Net cash farm income	32,522	-12,234	57,845
Inventory Changes			
Crops and feed	11,939	-20,005	68,281
Market livestock	-1,271	-2,738	-1,268
Accounts receivable	139	-5,849	1,729
Prepaid expenses and supplies	-4,448	-16,975	-350
Accounts payable	3,266	-7,758	-851
Total inventory change	9,624	-53,324	67,541
Net operating profit	42,147	-65,558	125,386
Depreciation and Other Capital Adjust			
Breeding livestock	-542	-1,545	-675
Machinery and equipment	-40,112	-59,686	-17,448
Buildings and improvements	-12,655	-29,907	-7,841
Other farm capital	8,985	31,478	4,199
Total depr. and other capital adj	-44,324	-59,660	-21,764
Net farm income	-2,178	-125,218	103,622

Inventory Changes Michigan Cash Grain, All Sizes, 2002 (Farms Sorted By Rate of Return on Assets - Cost)

	Avg. Of All Farms	Low 25%	High 25%
Number of farms	78	19	20
Net cash farm income	32,522	-12,234	57,845
Crops and Feed Ending inventory Beginning inventory	128,174 116,235	89,274 109,278	142,143 73,862
Inventory change	11,939	-20,005	68,281
Market Livestock Ending inventory Beginning inventory Inventory change	5,186 6,457 -1,271	3,912 6,650 -2,738	96 1,364 -1,268
Accts Receivable & Other Current A Ending inventory Beginning inventory Inventory change		49,225 55,073 -5,849	54,394 52,666 1,729
Prepaid Expenses and Supplies Ending inventory Beginning inventory Inventory change	21,421 25,870 -4,448	21,915 38,890 -16,975	21,727 22,077 -350
Accounts Payable & Accrued Expense Beginning inventory Ending inventory Inventory change	29,428 26,162 3,266	14,867 22,624 -7,758	27,362 28,213 -851
Total inventory change	9,624	-53,324	67,541
Net operating profit	42,147	-65,558	125,386

#### Depreciation and Other Capital Adjustments Michigan Cash Grain, All Sizes, 2002 (Farms Sorted By Rate of Return on Assets - Cost)

Avq. Of All Farms Low 25% High 25% Number of farms 78 19 20 Net operating profit 42,147 -65,558 125,386 Breeding Livestock Ending inventory 10,317 25,643 43 Capital sales 136 \_ \_ 10,491 Beginning inventory 27,188 718 Capital purchases 504 \_ \_ Depreciation, capital adjust. -542 -1,545 -675 Machinery and Equipment Ending inventory 130,793 149,511 89,266 Capital sales 5,588 2,718 2,281 Beginning inventory 128,941 87,328 167,901 Capital purchases 47,552 44,014 21,667 Depreciation, capital adjust. -40,112 -59,686 -17,448 Buildings and Improvements Ending inventory 55,857 76,203 30,934 4 Capital sales \_ \_ 77,369 28,741 Beginning inventory 57,565 37,630 Capital purchases 10,951 1,145 Depreciation, capital adjust. -12,655 -29,907 -7,841 Other Capital Assets 25,910 20,940 Ending inventory 69,386 Capital sales 8,410 28,211 467 Beginning inventory 16,285 37,102 17,019 9,049 189 Capital purchases 29,017 4,199 Depreciation, capital adjust. 8,985 31,478 Total depreciation, capital adj. -44,324 -59,660 -21,764 Net farm income -2,178 -125,218 103,622

11

# Profitability Measures Michigan Cash Grain, All Sizes, 2002

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

	Avg. Of All Farms	Low 25%	High 25%
Number of farms	78	19	20
Profitability ( <b>assets valued at cost</b> ) Net farm income Labor and management earnings Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	) -2,178 -19,456 -2.3 % -15.8 % -4.7 % 49.9 %	-125,218 -134,033 -22.5 % -203.6 % -38.3 % 58.7 %	103,622 85,759 12.9 % 22.6 % 20.6 % 62.7 %
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	17,278 23,684 38,391 -16,885 723,827 -40,569 257,296 361,142	8,815 20,419 33,335 -138,133 614,323 -158,553 77,879 360,812	17,863 17,063 39,586 81,099 628,863 64,036 282,959 394,185
	Avg. Of All Farms	Low 25%	High 25%
Number of farms	78	19	20
Profitability ( <b>assets valued at marke</b> Net farm income Labor and management earnings Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	et) 61,279* 181 3.1 % 2.2 % 12.9 % 24.3 %	-51,000 -94,694 -5.1 % -11.6 % -17.7 % 28.6 %	144,114 83,926 9.0 % 10.4 % 30.8 % 29.2 %
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	61,098 23,684 38,391 46,572 1,484,615 22,888 1,018,072 361,142	$\begin{array}{r} 43,693\\ 20,419\\ 33,335\\ -63,916\\ 1,263,740\\ -84,335\\ 727,297\\ 360,812 \end{array}$	60,188 17,063 39,586 121,591 1,349,033 104,528 1,003,128 394,185

\*NFI at market recognizes increased valuation of farm assets from beginning of the year to the ending of the year.

## Liquidity Measures Michigan Cash Grain, All Sizes, 2002

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

	Avg. Of All Farms	Low 25%	High 25%
Number of farms	78	19	20
,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	32,522 17,101 34,950 10,545 4,129 117,699	-12,234 24,211 31,610 9,545 -29,178 163,130	57,845 2,641 25,559 6,867 28,060 111,746
Years to turnover interm. debt Expense as a % of income Interest as a % of income	28.5 91 % 7 %	** 103 % 6 %	4.0 82 % 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	370,213 328,067 42,147 17,101 34,950 10,545 13,753 117,699	372,143 437,701 -65,558 24,211 31,610 9,545 -82,502 163,130	395,213 269,827 125,386 2,641 25,559 6,867 95,601 111,746
Years to turnover interm. debt Expense as a % of income Interest as a % of income	8.6 89 % 6 %	** 118 % 5 %	1.2 68 % 4 %

\*\* Income insufficient to meet debt servicing requirements

## Balance Sheet at Cost Values Michigan Cash Grain, All Sizes, 2002 of

(Farms	Sorted	ВУ	Rate	Οİ	Return	on	Assets	-	Cost)	
--------	--------	----	------	----	--------	----	--------	---	-------	--

	Avg. Of						
	All Farms		Low 258	Low 25%		High 25%	
Number of farms	78		19		20		
	Beginning	Ending	Beginning	Ending	Beginning	Ending	
Assets							
Current Farm Assets Cash and checking balance	25,979	38,210	32,023	36,466	21,435	56,220	
Prepaid expenses & supplies	25,870	21,421		21,915		21,727	
Growing crops	8,456	10,149		12,328	7,786	10,584	
Accounts receivable	25,471	21,772		20,649		12,331	
Hedging accounts	250	333		137	265	-15	
Crops held for sale or feed	116,235	127,289	109,278	89,274	73,862	142,143	
Crops under government loan	0	885		0	0	0	
Market livestock held for sale	6,457	5,186		3,912		96	
Other current assets	12,604	14,666		16,111		31,495	
Total current farm assets	221,321	239,911	241,914	200,791	171,404	274,580	
Intermediate Farm Assets	10 401	10 217	07 100	05 640	710	4.2	
Breeding livestock	10,491	10,317		25,643 149,511		43	
Machinery and equipment Titled vehicles	128,941 0	130,596 197		149,511	87,328 0	89,266 0	
Other intermediate assets	10,314	19,849		54,452		12,221	
Total intermediate farm assets	149,746	160,959		229,607		101,529	
Long Term Farm Assets							
Farm land	268,872	281,391	77,338	78,298	262,033	265,833	
Buildings and improvements	57,565	55,857		76,203	37,630	30,934	
Other long-term assets	5,971	6,062		14,934		8,719	
Total long-term farm assets	332,408	343,309		169,436		305,486	
Total Farm Assets	703,475	744,179	628,812	599,834	576,131	681,596	
Total Nonfarm Assets	144,859	156,379	257,555	310,714	62,583	66,819	
Total Assets	848,334	900,559	886,367	910,547	638,714	748,414	
Liabilities							
Current Farm Liabilities	7 010	<b>7</b> 01 F	7 000	4 016	7 001	0 014	
Accrued interest Accounts payable	7,818 21,963	7,815 17,994		4,016 17,160	7,921 19,440	7,714 20,498	
Current notes	133,405	128,336		210,200	106,777	20,498 91,452	
Government crop loans	133,103	735		210,200	100,777	0	
Principal due on term debt	29,324	29,277		28,874	21,935	30,107	
Total current farm liabilities	192,510	184,158	243,461	260,250	156,074	149,771	
Total intermediate farm liabs	85,129	111,611	126,826	148,468	73,387	113,078	
Total long term farm liabilities	163,845	195,810		169,772	94,699	104,800	
Total farm liabilities	441,483	491,579	494,397	578,491	324,160	367,649	
Total nonfarm liabilities	7,092	5,544	8,436	5,843	4,616	3,100	
Total liabilities	448,576	497,123	502,832	584,334	328,776	370,749	
Net worth (farm and nonfarm)	399,759	403,436	383,535	326,214	309,938	377,665	
Net worth change	·	3,677		-57,321		67,728	
Ratio Analysis							
Current farm liabilities / assets	87 %	77 %		130 %	91 %	55 %	
Curr. & interm farm liab. / assets	75 %	74 %		95 %	85 %	70 %	
Long term farm liab. / assets Total debt to asset ratio	49 % 52 %	57 % 55 %		100 % 64 %	31 %	34 % 50 %	
IULAI UEDI IU ASSEL IALIU	53 %	55 %	57 %	64 %	51 %	50 %	

#### Balance Sheet at Market Values Michigan Cash Grain, All Sizes, 2002

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

	Avg. Of All Farms		Low 25%		High 25%	
Number of farms	7	8	1	9	20	)
Assets	Beginning	Ending	Beginning	Ending	Beginning	Ending
Current Farm Assets						
Cash and checking balance	25,979	38,210	32,023	36,466	21,435	56,220
Prepaid expenses & supplies	25,870					
Growing crops	8,456					
Accounts receivable						
	25,471					,
Hedging accounts	250					-15
Crops held for sale or feed	116,235					
Crops under government loan	0					0
Market livestock held for sale	6,457			3,912		96
Other current assets	12,604					31,495
Total current farm assets	221,321	239,911	241,914	200,791	171,404	274,580
Intermediate Farm Assets Breeding livestock	10,491	10,317	27,188	25,643	718	43
Machinery and equipment Titled vehicles	360,683					
	0					0
Other intermediate assets	10,654					
Total intermediate farm assets	381,828	399,340	410,021	432,479	306,100	314,723
Long Term Farm Assets						
Farm land	721,340					
Buildings and improvements	102,074					
Other long-term assets	5,971	6,062	16,207	14,934	6,986	8,719
Total long-term farm assets	829,384	897,445	589,185	653,089	798,550	832,708
Total Farm Assets	1,432,534	1,536,696	1,241,121	1,286,360	1,276,054	1,422,011
Total Nonfarm Assets	281,881	283,394	529,285	526,399	97,097	114,135
Total Assets	1,714,415	1,820,089			1,373,152	
Liabilities						
Current Farm Liabilities						
Accrued interest	7,818	7,815	7,039	4,016	7,921	7,714
Accounts payable	21,963					
Current notes	133,405					91,452
Government crop loans	0					0
Principal due on term debt	29,324			28,874	21,935	30,107
Total current farm liabilities	192,510					
matal intermediate form lists	05 100	111,611	106 006	140 460	72 207	112 070
Total intermediate farm liabs	85,129					
Total long term farm liabilities	163,845					
Total farm liabilities	441,483	491,579	494,397	578,491	324,160	367,649
Total nonfarm liabilities	7,092	5,544	8,436	5,843	4,616	3,100
Total liabs excluding deferreds	448,576	497,123	502,832	584,334	328,776	370,749
Total deferred liabilities	11	12	0	0	0	0
Total liabilities	448,586	497,135	502,832	584,334	328,776	370,749
Retained earnings	399,759	403,436	383,535	326,214	309,938	377,665
Market valuation equity	866,069	919,518	884,039	902,211	734,438	787,731
Net worth (farm and nonfarm)	1,265,828	1,322,954	1,267,574	1,228,425	1,044,376	
Net worth excluding deferreds					1,044,376	
Net worth change		57,126		-39,149		121,021
Potio Apolygia						
Ratio Analysis Current farm liabilities / assets	87 %	77 %	101 %	130 %	91 %	55 %
Curr. & interm farm liab. / assets	46 %					45 %
Long term farm liab. / assets	40 % 20 %					45 %
Total debt to asset ratio	20 %					24 %
Debt to assets excl deferreds	26 % 26 %					
DEDI LO ASSELS EXCI DELETTEDS	20 8	21 8	28 %	32 %	24 %	24 %

### Statement Of Cash Flows Michigan Cash Grain, All Sizes, 2002

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

	Avg. Of All Farms	Low 25%	High 25%
Number of farms	78	19	20
Beginning cash (farm & nonfarm)	29,121	32,154	25,172
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	359,406 17,101 -326,884 -31,175 -3,774 14,674	400,734 24,211 -412,968 -27,495 -4,114 -19,633	326,471 2,641 -268,626 -24,214 -1,345 34,927
Cash From Investing Activities Sale of breeding livestock Sale of machinery & equipment Sale of titled vehicles 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 titled vehicles Purchase of farm land Purchase of farm buildings Purchase of other farm assets Purchase of nonfarm assets Cash from investing activities	$ \begin{array}{r}     136 \\     5,588 \\     - \\     5,001 \\     4 \\     8,410 \\     18,263 \\     -504 \\     -47,355 \\     -197 \\     -14,124 \\     -10,951 \\     -9,049 \\     -17,268 \\     -62,049 \\ \end{array} $	2,718 9,347 28,211 72,158 - -44,014 - 5,040 -28,741 -29,017 -64,511 -58,889	-2,281 - - 467 - -21,667 - -3,800 -1,145 -189 -1,791 -25,844
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	190,690 14,784 -137,461 - -7,223 60,790 13,415	219,833 5,691 -141,242 - -530 83,752 5,230	143,044 6,364 -101,842 - -19,689 27,877 36,960
Ending cash (farm & nonfarm)	42,536	37,384	62,132

### Financial Standards Measures Michigan Cash Grain, All Sizes, 2002

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

	Avg. Of		
	All Farms	Low 25%	High 25%
Number of farms	78	19	20
Liquidity Current ratio Working capital	1.30 55,753	0.77 -59,459	1.83 124,809
Solvency (market) Farm debt to asset ratio Farm equity to asset ratio Farm debt to equity ratio	32 % 68 % 47 %	45 % 55 % 82 %	26 % 74 % 35 %
Profitability (cost) Rate of return on farm assets Rate of return on farm equity Operating profit margin Net farm income		-203.6 % -38.3 %	20.6 %
Repayment Capacity Term debt coverage ratio Capital replacement margin	90 % -4,079	-96 % -93,967	337 % 73,630
Efficiency Asset turnover rate (cost) Operating expense ratio Depreciation expense ratio Interest expense ratio Net farm income ratio	49.9 % 82.2 % 12.0 % 6.4 % -0.6 %	16.0 % 5.5 %	5.5 % 4.3 %

# Operator and Labor Information Michigan Cash Grain, All Sizes, 2002 (Farms Sorted By Rate of Return on Assets - Cost)

	Avg. Of All Farms	Low 25%	High 25%
Number of farms	78	19	20
Operator Information Average number of operators Average age of operators Average number of years farming	1.3 51.0 30.2	1.4 51.0 26.9	1.2 48.3 29.3
Results Per Operator Working capital Total assets (market) Total liabilities Net worth (market) Net worth excl deferred liabs	42,593 1,390,470 379,790 1,010,680 1,010,690	-43,451 1,324,708 427,013 897,695 897,695	104,007 1,280,121 308,958 971,164 971,164
Gross farm income Total farm expense Net farm income	282,827 284,491 -1,664	271,951 363,456 -91,505	329,345 242,993 86,351
Net nonfarm income Family living & tax withdrawals	13,065 26,700	17,693 23,099	2,201 21,300
Total acres owned Total crop acres Crop acres owned Crop acres cash rented Crop acres share rented Total pasture acres	318.0 864.9 260.3 587.3 17.3 0.6	213.1 949.1 146.4 802.7 _ 2.3	323.8 903.4 281.4 555.4 66.6
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	78 3,056 2,015 5,071 2,335 71.21 -0.71	19 3,059 2,819 5,878 2,235 61.38 -40.93	20 2,998 1,493 4,490 2,498 87.79 34.57
Partnerships Number of farms Number of operators Owner withdrawals per farm Withdrawals per operator	14 2.0 _ _	5 1.6 _ _	1 - - -

#### Financial Summary Michigan Cash Grain, All Sizes, 2002 (Farms Sorted By Rate of Return on Assets - Cost)

	Awa Of			
	Avg. Of All Farms	Low 25%	High 25%	
Number of farms	78	19	20	
The same of the temperature				
Income Statement Gross cash farm income	359,406	400,734	326,471	
Total cash farm expense	326,884		268,626	
Net cash farm income	32,522	412,968 -12,234	57,845	
Inventory change	9,624	-53,324	67,541	
Depreciation and capital adjust	-44,324	-59,660	-21,764	
Net farm income	-2,178	-125,218	103,622	
Profitability (cost)				
Labor and management earnings	-19,456	-134,033	85,759	
Rate of return on assets	-2.3 %	-22.5 %	12.9 %	
Rate of return on equity	-15.8 %	-203.6 %	22.6 %	
Operating profit margin	-4.7 %	-38.3 %	20.6 %	
Asset turnover rate	49.9 %	58.7 %	62.7 %	
Profitability (market)				
Labor and management earnings	181	-94,694	83,926	
Rate of return on assets	3.1 %	-5.1 %	9.0 %	
Rate of return on equity	2.2 %	-11.6 %	10.4 %	
Operating profit margin	12.9 %	-17.7 %	30.8 %	
Asset turnover rate	24.3 %	28.6 %	29.2 %	
Liquidity				
Term debt coverage ratio	90.2 %	-96.4 %	336.5 %	
Expense as a percent of income	88.6 %	117.6 %	68.3 %	
Interest as a percent of income	6.4 %	5.5 %	4.3 %	
Solvency (cost)				
Number of farms	78	19	20	
Ending farm assets	744,179	599,834	681,596	
Ending farm liabilities	491,579	578,491	367,649	
Ending total assets	900,559	910,547	748,414	
Ending total liabilities	497,123	584,334	370,749	
Ending net worth	403,436	326,214	377,665	
Net worth change	3,677	-57,321	67,728	
Ending farm debt to asset ratio	66 %	96 %	54 %	
Beg total debt to asset ratio	53 %	57 %	51 %	
End total debt to asset ratio	55 %	64 %	50 %	
Solvency (market)		1.0	0.0	
Number of farms	78	19	20	
Ending farm assets	1,536,696	1,286,360	1,422,011	
Ending farm liabilities	491,591	578,491	367,649	
Ending total assets	1,820,089	1,812,758	1,536,146	
Ending total liabilities	497,135	584,334	370,749	
Ending net worth	1,322,954	1,228,425		
Net worth change	57,126	-39,149	121,021	
Ending farm debt to asset ratio	32 %	45 %	26 %	
Beg total debt to asset ratio End total debt to asset ratio	26 % 27 %	28 % 32 %	24 % 24 %	
Nonfarm Information				
Net nonfarm income	17,101	24,211	2,641	
Crop Acres				
Total acres owned	416	292	389	
Total crop acres	1,132	1,299	1,084	
Total crop acres owned	341	200	338	
Total crop acres cash rented	769	1,098	666	
Total crop acres share rented	23		80	

#### B. Financial Summary Information, Farms with 140-799 Acres

Table 20Crop Production and Marketing SummaryMichigan Cash Grain, 140 to 799 Acres, 2002(Farms Sorted By Rate of Return on Assets - Cost)

	Avg. Of All Farms	Low 25%	High 25%
Number of farms	36	8	10
Acreage Summary			
Total acres owned	314	274	322
Total crop acres	436	402	484
Crop acres owned	244	197	282
Crop acres cash rented	184	205	172
Crop acres share rented	9	-	30
Total pasture acres	2	8	-
Average Price Received (Cash Sales	Only)		
Corn per bushel	2.13	2.04	2.18
Soybeans per bushel	4.29	4.79	4.41
Wheat, Winter per bushel	3.11	-	2.97
Sugar Beets per ton	29.90	-	30.23
Straw per ton	22.26	-	-
Beans, Navy per cwt	12.62	-	12.57
Hay, Alfalfa per ton	37.76	-	-
Hay, Mixed per ton	44.27	-	-
Oats per bushel	2.27	-	-

#### Farm Income Statement Michigan Cash Grain, 140 to 799 Acres, 2002

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

	Avg. Of		
	All Farms	Low 25%	High 25%
Number of farms	36	8	10
Cash Farm Income			
Apples	1,719	-	_
Beans, Black Turtle	822	_	2,959
Beans, Light Red Kidney	216	-	778
Beans, Navy	3,724	-	8,349
Beans, Small Red	304	-	1,093
Corn	30,903	13,237	36,740
Corn Silage	1,735	4,920	-
Corn, Ear	1,498	-	-
Hay, Alfalfa	911	2,342	826
Hay, Mixed	3,604	6,805	1,211
Haylage, Alfalfa	1,197	-	-
Haylage, Mixed	810	-	-
Oats	1,085	63	2,504
Soybeans	25,661	18,938	17,191
Straw	655	-	296
Sugar Beets	14,202	-	50,840
Wheat, Spring	349	1,571	-
Wheat, Winter	8,319	2,488	10,940
Wheat, Seed	682	-	-
Miscellaneous crop income	74	66	_
Beef Cow-Calf, Beef Calves	455	-	1,294
Beef, Finish Beef Calves	1,790	-	1,225
Beef, Finish Yrlg Steers	1,195	-	1,286
Broilers	107	_	384
Dairy Replacement Heifers	831	_	-
Dairy Steers	518	2,205	102
Horses, Boarding	80	313	_
Hogs, Weaning to Finish	315	-	1,135
Beef Cow-Calf (shares), Beef Calv	117	-	_
Cull breeding livestock	811	29	1,350
Misc. livestock income	457	488	-
Direct & CC govt payments	4,268	6,815	1,906
Other government payments	6,081	4,053	8,400
Custom work income	5,722	14,558	3,464
Patronage dividends, cash	305	82	796
Insurance income	3,759	873	4,512
Other farm income	8,286	5,375	13,201
Gross Cash Farm Income	133,567	85,218	172,779

Table 21 (continued) Farm Income Statement Michigan Cash Grain, 140 to 799 Acres, 2002 (Farms Sorted By Rate of Return on Assets - Cost)

	Avg. Of All Farms	Low 25%	High 25%
Number of farms	36	8	10
Cash Farm Expense			
Seed	12,397	5,944	13,327
Fertilizer	17,152	16,153	16,864
Crop chemicals	9,599	2,751	15,720
Crop insurance	855	988	964
Drying fuel	332	-	385
Crop custom hire	63	-	226
Hauling and trucking	452	36	711
Crop marketing	1,357	288	2,634
Crop miscellaneous	366	345	578
Feeder livestock purchase	1,319	1,000	-
Purchased feed	1,413	3,059	704
Veterinary	330	671	21
Livestock supplies	654	1,010	627
Livestock marketing	109	460	-
Interest	9,465	5,173	13,419
Packaging and supplies	250	_	277
Fuel & oil	4,701	4,708	4,981
Repairs	12,130	12,369	12,352
Custom hire	4,118	5,124	4,815
Hired labor	5,595	7,609	3,949
Land rent	8,403	9,299	7,380
Machinery & bldg leases	883	_	534
Real estate taxes	4,932	5,496	5,441
Personal property taxes	343	141	1,123
Farm insurance	5,233	5,650	4,088
Utilities	3,181	3,151	1,995
Dues & professional fees	2,079	3,471	2,190
Hedging account deposits	132	-	200
Miscellaneous	4,805	4,744	4,650
Total cash expense	112,648	, 99,638	120,153
Net cash farm income	20,919	-14,420	52,627
Inventory Changed		, -	- , -
Inventory Changes Crops and feed	1,964	10,017	6,670
Market livestock	29	4,048	-2,536
Accounts receivable		1,013	
Prepaid expenses and supplies	-1,225 4,076		18,838 2,229
	4,078	8,320	539
Accounts payable		-3,875	
Total inventory change	4,961	19,523	25,739
Net operating profit	25,880	5,103	78,366
Depreciation and Other Capital Adjus	stments		
Breeding livestock	-1,029	-3,669	-1,350
Machinery and equipment	-21,301	-28,757	-14,161
Buildings and improvements	-2,190	-1,017	-3,212
Other farm capital	6,935	-3,842	8,452
Total depr. and other capital adj	-17,586	-37,284	-10,270
Net farm income	8,294	-32,181	68,095

# Inventory Changes Michigan Cash Grain, 140 to 799 Acres, 2002

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

	Avg. Of All Farms	Low 25%	High 25%
Number of farms	36	8	10
Net cash farm income	20,919	-14,420	52,627
Crops and Feed Ending inventory Beginning inventory Inventory change	36,537 34,573 1,964	29,429	32,493
Market Livestock Ending inventory Beginning inventory Inventory change	3,496 3,467 29	7,916 3,869 4,048	193 2,729 -2,536
Accts Receivable & Other Current As Ending inventory Beginning inventory Inventory change	29,846 29,846 31,071 -1,225	4,814 3,801 1,013	
Prepaid Expenses and Supplies Ending inventory Beginning inventory Inventory change	11,173 7,097 4,076	10,273 1,953 8,320	9,665 7,437 2,229
Accounts Payable & Accrued Expenses Beginning inventory Ending inventory Inventory change	8,501 8,384 117	5,856 9,732 -3,875	6,292 5,753 539
Total inventory change	4,961	19,523	25,739
Net operating profit	25,880	5,103	78,366

Table 23Depreciation and Other Capital AdjustmentsMichigan Cash Grain, 140 to 799 Acres, 2002(Farms Sorted By Rate of Return on Assets - Cost)

	Avg. Of All Farms	Low 25%	High 25%
Number of farms	36	8	10
Net operating profit	25,880	5,103	78,366
Breeding Livestock Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust.	5,464 202 6,527 168 -1,029	8,394  12,063  -3,669	85  
Machinery and Equipment Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust.	27,929	39,243 1,836 43,562 26,273 -28,757	15,055
Buildings and Improvements Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust.	31,405 8 31,943 1,659 -2,190	27,752  27,097  _1,672 017	40,817  41,739 _2,291 _3,212
Other Capital Assets Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust.	14,001 9,907 8,809 8,164 6,935	2,357 - 6,199 - -3,842	29,155 634 21,337 - 8,452
Total depreciation, capital adj.	-17,586	-37,284	-10,270
Net farm income	8,294	-32,181	68,095

# Profitability Measures Michigan Cash Grain, 140 to 799 Acres, 2002

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

	Avg. Of All Farms	Low 25%	High 25%
Number of farms	36	8	10
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	8,294 -4,031 -2.3 % -9.1 % -6.2 % 36.8 %	-32,181 -38,232 -26.5 % -89.5 % -57.9 % 45.7 %	68,095 51,323 10.7 % 14.7 % 26.2 % 41.1 %
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	12,325 9,062 25,487 -8,130 354,775 -17,192 189,145 130,574	6,052 5,111 26,492 -53,561 202,460 -58,673 65,583 92,568	16,772 11,904 29,324 50,675 471,506 38,771 264,501 193,697
	Avg. Of All Farms	Low 25%	High 25%
Number of farms	36	8	10
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	et) 62,084 20,134 5.3 % 5.2 % 35.0 % 15.1 %	-24,305 -58,563 -6.5 % -8.9 % -49.4 % 13.1 %	113,752 65,024 9.5 % 10.4 % 49.7 % 19.0 %
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	41,949 9,062 25,487 45,659 864,324 36,597 698,668 130,574	34,258 5,111 26,492 -45,686 707,844 -50,797 570,966 92,568	48,728 11,904 29,324 96,331 1,019,138 84,427 812,133 193,697

Liquidity Measures Michigan Cash Grain, 140 to 799 Acres, 2002

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

	Avg. Of All Farms	Low 25%	High 25%
Number of farms	36	8	10
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 Years to turnover interm. debt	20,919 17,676 20,948 5,363 12,283 49,813 4.1	-14,420 40,266 30,143 4,460 -8,757 39,560 **	52,627 -647 17,786 7,076 27,118 49,827 1.8
Expense as a % of income Interest as a % of income	84 % 7 %	117 % 6 %	70 % 8 %
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	134,335 108,455 25,880 17,676 20,948 5,363 17,244 49,813	100,296 95,193 5,103 40,266 30,143 4,460 10,766 39,560	195,751 117,385 78,366 -647 17,786 7,076 52,857 49,827
Years to turnover interm. debt Expense as a % of income Interest as a % of income	2.9 81 % 7 %	3.7 95 % 5 %	0.9 60 % 6 %

\*\* Income insufficient to meet debt servicing requirements

#### Balance Sheet at Cost Values Michigan Cash Grain, 140 to 799 Acres, 2002 (Farms Sorted By Rate of Return on Assets - Cost)

	Avg. Of					
	All Farms	5	Low 2	5%	High 25	00
Number of farms	36		8		10	
	Beginning	Ending	Beginning	Ending	Beginning	Ending
Assets Current Farm Assets						
Cash and checking balance	24,219	30,078	22,569	24,540	22,922	47,538
Prepaid expenses & supplies	7,097	11,173		10,273		9,665
Growing crops	5,159	5,519		3,707	3,788	4,411
Accounts receivable	14,171	6,055	223	1,107	10,591	10,885
Hedging accounts	15	1		0	0	0
Crops held for sale or feed	34,573	36,537		39,446		39,163
Crops under government loan	0	0		0	0	0
Market livestock held for sale Other current assets	3,467	3,496		7,916 0	2,729 42,212	193
Total current farm assets	11,726 100,426	18,271 111,130		86,989	42,212	60,133 171,987
Intermediate Farm Assets Breeding livestock	6,527	E 161	12,063	0 204	1 425	85
Machinery and equipment	46,437	5,464 51,490		8,394 39,243		85 41,399
Titled vehicles	10,137	428		55,245 0		41,399 0
Other intermediate assets	5,128	10,215		1,407		17,540
Total intermediate farm assets	58,092	67,597		49,043	55,563	59,023
Long Term Farm Assets						
Farm land	147,564	153,928	44,743	44,900	216,096	216,096
Buildings and improvements	31,943	31,405	,	27,752		40,817
Other long-term assets	3,681	3,785		951		11,616
Total long-term farm assets	183,188	189,118	76,519	73,603	265,738	268,529
Total Farm Assets	341,706	367,844	195,285	209,635	443,472	499,539
Total Nonfarm Assets	80,885	115,879	58,665	211,013	70,562	72,239
Total Assets	422,591	483,723	253,950	420,648	514,034	571,778
Liabilities						
Current Farm Liabilities						
Accrued interest	1,389	986		982		918
Accounts payable	7,876	6,633		5,311		4,835
Current notes	38,582	35,457	,	29,710	49,809	36,027
Government crop loans Principal due on term debt	0 10,376	0 8,720		0 9,222	0 9,736	0 9,294
Total current farm liabilities	58,223	51,798		45,224	.,	51,074
	50,225	51,190	10,105	15,221	00,00,	51,0,1
Total intermediate farm liabs	38,471	49,848		29,539		61,549
Total long term farm liabilities	64,394	68,528		61,332	101,298	100,422
Total farm liabilities	161,088	170,173	137,659	136,095	200,965	213,045
Total nonfarm liabilities	8,121	7,725	14,738	13,878	510	193
Total liabilities	169,209	177,898	152,397	149,973	201,474	213,238
Net worth (farm and nonfarm)	253,382	305,825	101,554	270,675	312,560	358,539
Net worth change		52,443		169,121		45,979
Ratio Analysis						
Current farm liabilities / assets	58 %	47 %	75 %	52 %	54 %	30 %
Curr. & interm farm liab. / assets	61 %	57 %	69 %	55 %	56 %	49 %
Long term farm liab. / assets	35 %	36 %		83 %	38 %	37 %
Total debt to asset ratio	40 %	37 %	60 %	36 %	39 %	37 %

#### Balance Sheet at Market Values Michigan Cash Grain, 140 to 799 Acres, 2002

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

	Avg. Of All Farm	s	Low 25	58	High 25	5%
Number of farms	36		8	}	10	)
	Beginning	Ending	Beginning	Ending	Beginning	Ending
Assets						
Current Farm Assets			~~ ~~			45 500
Cash and checking balance	24,219	30,078				
Prepaid expenses & supplies	7,097	11,173				
Growing crops	5,159	5,519				
Accounts receivable	14,171	6,055				
Hedging accounts Crops held for sale or feed	15	1 26 527		0 39,446	0 32,493	
Crops under government loan	34,573 0	36,537 0				
Market livestock held for sale	3,467	3,496				
Other current assets	11,726	18,271		7,910		
Total current farm assets	100,426					
Iotal Cullent laim assets	100,420	111,130	01,021	00,909	122,172	1/1,907
Intermediate Farm Assets						
Breeding livestock	6,527	5,464				
Machinery and equipment	181,332	194,698				
Titled vehicles	0	1,177				0
Other intermediate assets	5,754					
Total intermediate farm assets	193,612	212,197	173,794	169,182	202,151	212,768
Long Term Farm Assets						
Farm land	446,642					
Buildings and improvements			97,438			98,045
Other long-term assets	3,681	3,785			•	,
Total long-term farm assets	530,320	580,962				
Total Farm Assets	824,359	904,289	696,731	718,956	968,277	1,070,000
Total Nonfarm Assets	256,667	254,852	457,754	419,155	88,926	99,312
Total Assets	1,081,026	1,159,141	1,154,485	1,138,111	1,057,203	1,169,312
Liabilities						
Current Farm Liabilities						
Accrued interest	1,389	986	1,044	982	2,434	918
Accounts payable	7,876					
Current notes	38,582	35,457		29,710		
Government crop loans	0	0				
Principal due on term debt	10,376	8,720	9,622	9,222	9,736	9,294
Total current farm liabilities	58,223	51,798		45,224	65,837	51,074
Total intermediate farm liabs	38,471	49,848	35,948	29,539	33,829	61,549
Total long term farm liabilities			55,248			
Total farm liabilities	161,088	170,173				213,045
		,	,		,	,
Total nonfarm liabilities	8,121	7,725	14,738	13,878	510	193
Total liabs excluding deferreds	169,209	177,898	152,397	149,973	201,474	213,238
Total deferred liabilities	24	27	0	0	0	0
Total liabilities	169,233	177,925	152,397	149,973	201,474	213,238
Retained earnings	253,382	305,825	101,554	270,675	312,560	358,539
Market valuation equity	658,411	675,391		717,464		597,534
Net worth (farm and nonfarm)	911,793		1,002,088	988,139		956,073
Net worth excluding deferreds	911,817	981,243	1,002,088	988,139	855,729	956,073
Net worth change		69,423		-13,949		100,344
Ratio Analysis						
Current farm liabilities / assets	58 %	47 %	75 %	52 %	54 %	30 %
Curr. & interm farm liab. / assets	33 %	31 %	35 %	29 %	31 %	29 %
Long term farm liab. / assets	12 %	12 %	12 %	13 %	16 %	15 %
Total debt to asset ratio	16 %	15 %	13 %	13 %	19 %	18 %
Debt to assets excl deferreds	16 %	15 %	13 %	13 %	19 %	18 %
	•	•	•	0	•	

Statement Of Cash Flows Michigan Cash Grain, 140 to 799 Acres, 2002 (Farms Sorted By Rate of Return on Assets - Cost)

Avg. Of All Farms Low 25% High 25% Number of farms 36 8 10 Beginning cash (farm & nonfarm) 29,830 22,882 30,162 Cash From Operating Activities Gross cash farm income133,56785,218172,779Net nonfarm income17,67640,266-647Total cash farm expense-112,648-99,638-120,153Apparent family living expense-18,894-25,084-15,872Income and social security tax-2,055-5,060-1,914sh from operations17,646-4,29834,194 Cash from operations sh From Investing ActivitiesSale of breeding livestock202--Sale of machinery & equipment1,1471,836190Sale of titled vehicles---Sale of farm land4,93322,200-Sale of farm buildings8--Sale of other farm assets9,907-634Sale of nonfarm assets38,915171,375-Purchase of breeding livestock-168--Purchase of machinery & equip.-27,501-26,273-15,055Purchase of farm land-9,463-9,845-Purchase of farm land-9,463-9,845-Purchase of farm buildings-1,659-1,672-2,291Purchase of other farm assets-8,164--Purchase of nonfarm assets-36,400-153,213-Sh from investing activities-28,6704,409-16,522 Cash From Investing Activities Cash from investing activities Cash From Financing Activities 

 56,652
 35,395
 58,097

 8,679
 2,891
 3,900

 -46,441
 -35,479
 -45,794

 Money borrowed Cash gifts and inheritances Principal payments Dividends paid 
 Gifts given
 -2,780
 -1,260

 Cash from financing activities
 16,111
 1,547
 -9,000 7,203 5,087 1,658 24,875 Net change in cash balance Ending cash (farm & nonfarm) 34,917 24,540 55,038

## Financial Standards Measures Michigan Cash Grain, 140 to 799 Acres, 2002

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

	Avg. Of		
	All Farms	Low 25%	High 25%
Number of farms	36	8	10
Liquidity Current ratio Working capital	2.15 59,332	1.92 41,765	3.37 120,913
Solvency (market) Farm debt to asset ratio Farm equity to asset ratio Farm debt to equity ratio	19 % 81 % 23 %	19 % 81 % 23 %	20 % 80 % 25 %
Profitability (cost) Rate of return on farm assets Rate of return on farm equity Operating profit margin Net farm income	-2.3 % -9.1 % -6.2 % 8,294	-57.9 %	
Repayment Capacity Term debt coverage ratio Capital replacement margin	148 % 11,151	120 % 4,587	330 % 49,880
Efficiency Asset turnover rate (cost) Operating expense ratio Depreciation expense ratio Interest expense ratio Net farm income ratio	36.8 % 74.0 % 13.1 % 6.7 % 6.2 %	45.7 % 89.8 % 37.2 % 5.1 % -32.1 %	41.1 % 53.9 % 5.2 % 6.1 % 34.8 %

#### Operator and Labor Information Michigan Cash Grain, 140 to 799 Acres, 2002 (Farms Sorted By Rate of Return on Assets - Cost)

Table 30

	Avg. Of All Farms	Low 25%	High 25%
Number of farms	36	8	10
Operator Information Average number of operators Average age of operators	1.1 49.9	1.1 53.4	1.0 41.1
Average number of years farming	30.7	28.0	27.1
Results Per Operator	F2 200		100 010
Working capital Total assets (market)	53,399 1,043,227	37,125 1,011,654	120,913 1,169,312
Total liabilities	160,133	133,309	213,238
Net worth (market) Net worth excl deferred liabs	883,094 883,118	878,346 878,346	956,073 956,073
Gross farm income	120,902	89,152	195,751
Total farm expense Net farm income	113,437 7,465	117,757 -28,605	127,655 68,095
Net nonfarm income Family living & tax withdrawals	15,908 18,854	35,792 26,794	-647 17,786
Total acres owned	282.7	243.6	321.6
Total crop acres	392.4	357.1	484.0
Crop acres owned Crop acres cash rented	219.3 165.2	175.3 181.8	281.6 172.2
Crop acres share rented	7.9	_	30.2
Total pasture acres	1.5	6.7	-
Labor Analysis			
Number of farms Total unpaid labor hours	36 2,525	8 2,753	10 2,505
Total hired labor hours	2,525	2,753	344
Total labor hours per farm	3,111	3,634	2,849
Unpaid hours per operator	2,273	2,447	2,505
Value of farm production / hour Net farm income / unpaid hour	41.98 3.28	25.47 -11.69	68.00 27.18

#### Financial Summary Michigan Cash Grain, 140 to 799 Acres, 2002 (Farms Sorted By Rate of Return on Assets - Cost)

	Avg. Of All Farms	Low 25%	High 25%
Number of farms	36	8	10
Income Statement Gross cash farm income Total cash farm expense Net cash farm income Inventory change Depreciation and capital adjust Net farm income	133,567 112,648 20,919 4,961 -17,586 8,294	85,218 99,638 -14,420 19,523 -37,284 -32,181	-10,270
Profitability (cost) Labor and management earnings Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	-4,031 -2.3 % -9.1 % -6.2 % 36.8 %	-38,232 -26.5 % -89.5 % -57.9 % 45.7 %	26.2 %
Profitability (market) Labor and management earnings Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	20,134 5.3 % 5.2 % 35.0 % 15.1 %	-58,563 -6.5 % -8.9 % -49.4 % 13.1 %	
Liquidity Term debt coverage ratio Expense as a percent of income Interest as a percent of income	148.1 % 80.7 % 6.7 %	119.7 % 94.9 % 5.1 %	330.4 % 60.0 % 6.1 %
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	36 367,844 170,173 483,723 177,898 305,825 52,443 46 % 40 % 37 %	8 209,635 136,095 420,648 149,973 270,675 169,121 65 % 60 % 36 %	10 499,539 213,045 571,778 213,238 358,539 45,979 43 % 39 % 37 %
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	36 904,289 170,200 1,159,141 177,925 981,216 69,423 19 % 16 % 15 %	8 718,956 136,095 1,138,111 149,973 988,139 -13,949 19 % 13 % 13 %	10 1,070,000 213,045 1,169,312 213,238 956,073 100,344 20 % 19 % 18 %
Nonfarm Information Net nonfarm income	17,676	40,266	-647
Crop Acres Total acres owned Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented	314 436 244 184 9	274 402 197 205 –	322 484 282 172 30

#### C. Financial Summary Information, Farms with 800-1199 Acres

Table 32Crop Production and Marketing Summary<br/>Michigan Cash Grain, 800 to 1199 Acres, 2002<br/>(Farms Sorted By Rate of Return on Assets - Cost)

#### Avg. Of All Farms

Number of farms	17
Acreage Summary	
Total acres owned	477
Total crop acres	969
Crop acres owned	364
Crop acres cash rented	520
Crop acres share rented	85
Total pasture acres	-
Average Price Received (Cash Sales Only) Corn per bushel Soybeans per bushel Wheat, Winter per bushel	2.15 4.95 3.38
micae, mineer per bablier	5.50

#### Farm Income Statement Michigan Cash Grain, 800 to 1199 Acres, 2002 (Farms Sorted By Rate of Return on Assets - Cost)

Avg. Of All Farms

Number of farms	17
Cash Farm Income	
Beans, Green	1,424
Beans, Navy	11,662
Corn	67,560
Corn, Seed	39,295
Cucumbers	21,481
Hay, Alfalfa	597
Hay, Mixed	2,353
Oats	2,355
	60,328
Soybeans Southeans	-
Soybeans Seed	3,294
Straw	1,058
Sugar Beets	17,268
Wheat, Spring	4,443
Wheat, Winter	9,754
Other crops	560
Beef Cow-Calf, Beef Calves	2,689
Beef, Finish Beef Calves	1,278
Hogs, Farrow-Fin, Raised Hogs	10,134
Hogs, Feeder Pigs, Feeder Pigs	79
Sheep, Lamb Finishing	73
Sheep, Market Lambs, Mkt Lambs	3,511
Sheep, Market Lambs, Wool	26
Cull breeding livestock	918
Misc. livestock income	9
Direct & CC govt payments	9,501
Other government payments	15,982
Custom work income	6,894
Patronage dividends, cash	111
Insurance income	5,885
Cash from hedging accts	-134
Other farm income	9,147
Gross Cash Farm Income	307,267

Table 33

### Table 33 (continued)Farm Income StatementMichigan Cash Grain, 800 to 1199 Acres, 2002

(Farms Sor	ted By	Rate	of	Return	on	Assets	-	Cost)
------------	--------	------	----	--------	----	--------	---	-------

	Avg. Of All Farms
Number of farms	17
Cash Farm Expense Seed Fertilizer Crop chemicals Crop insurance Drying fuel Hauling and trucking Crop marketing Crop miscellaneous Feeder livestock purchase Purchased feed Breeding fees Veterinary Livestock supplies Livestock marketing Interest Packaging and supplies Fuel & oil Repairs Custom hire Hired labor Land rent Machinery & bldg leases Real estate taxes Farm insurance Utilities Dues & professional fees Hedging account deposits Miscellaneous Total cash expense Net cash farm income	31,441 28,860 27,528 3,311 1,205 117 1,355 1,888 1,854 3,705 41 392 143 390 16,346 46 11,245 27,326 15,326 15,326 3,706 5,141 8,262 6,850 2,551 70 4,759 26,1326 45,941
Inventory Changes Crops and feed Market livestock Accounts receivable Prepaid expenses and supplies Accounts payable Total inventory change Net operating profit	4,538 -524 6,040 -897 7,057 16,215 62,156
Depreciation and Other Capital Adjust Breeding livestock Machinery and equipment Buildings and improvements Other farm capital Total depr. and other capital adj	ments -307 -41,578 -5,725 -564 -48,174
Net farm income	13,982

#### Inventory Changes Michigan Cash Grain, 800 to 1199 Acres, 2002

	Avg. Of All Farms
Number of farms	17
Net cash farm income	45,941
Crops and Feed Ending inventory Beginning inventory Inventory change	129,176 124,637 4,538
Market Livestock Ending inventory Beginning inventory Inventory change	7,938 8,462 -524
Accts Receivable & Other Current Ass Ending inventory Beginning inventory Inventory change	ets 26,520 20,480 6,040
Prepaid Expenses and Supplies Ending inventory Beginning inventory Inventory change	18,932 19,829 -897
Accounts Payable & Accrued Expenses Beginning inventory Ending inventory Inventory change	26,150 19,093 7,057
Total inventory change	16,215
Net operating profit	62,156

Table 35Depreciation and Other Capital AdjustmentsMichigan Cash Grain, 800 to 1199 Acres, 2002(Farms Sorted By Rate of Return on Assets - Cost)

	Avg. Of All Farms
Number of farms	17
Net operating profit	62,156
Breeding Livestock Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust.	11,058 196 9,603 1,958 -307
Machinery and Equipment Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust.	146,271 5,106 136,291 56,664 -41,578
Buildings and Improvements Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust.	38,276 - 35,026 8,975 -5,725
Other Capital Assets Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust.	26,921 1,376 28,101 760 -564
Total depreciation, capital adj.	-48,174
Net farm income	13,982

### Profitability Measures Michigan Cash Grain, 800 to 1199 Acres, 2002

	Avg. Of All Farms
Number of farms	17
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	13,982 -5,570 -1.0 % -7.4 % -2.1 % 45.3 %
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	19,552 16,965 37,584 -6,637 688,287 -23,602 320,986 311,456
	Avg. Of All Farms
Number of farms	17
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	et) 61,104 -6,636 2.7 % 2.1 % 13.0 % 20.8 %
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	67,740 16,965 37,584 40,485 1,496,306 23,521 1,129,006 311,456

## Liquidity Measures Michigan Cash Grain, 800 to 1199 Acres, 2002

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

#### Avg. Of All Farms

Number of farms	17
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	45,941 21,609 45,761 12,435 9,354 112,751
Years to turnover interm. debt Expense as a % of income Interest as a % of income	12.1 85 % 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	317,322 255,166 62,156 21,609 45,761 12,435 25,569 112,751
Years to turnover interm. debt Expense as a % of income Interest as a % of income	4.4 80 % 5 %

#### Balance Sheet at Cost Values Michigan Cash Grain, 800 to 1199 Acres, 2002 (Farms Sorted By Rate of Return on Assets - Cost)

	Avg. Of All Farms	3
Number of farms	17	
Assets	Beginning	Ending
Current Farm Assets Cash and checking balance Prepaid expenses & supplies Growing crops Accounts receivable Hedging accounts Crops held for sale or feed Crops under government loan	22,480 19,829 4,455 15,831 195 124,637 0	20,765 18,932 5,950 20,317 253 125,117 4,059
Market livestock held for sale Other current assets Total current farm assets	8,462 0 195,888	7,938 0 203,331
Intermediate Farm Assets Intermediate Farm Assets Breeding livestock Machinery and equipment Titled vehicles Other intermediate assets Total intermediate farm assets	9,603 136,291 0 18,907 164,801	11,058 146,271 0 17,797 175,126
Long Term Farm Assets Farm land Buildings and improvements Other long-term assets Total long-term farm assets Total Farm Assets	256,953 35,026 9,194 301,173 661,862	288,855 38,276 9,123 336,254 714,712
Total Nonfarm Assets Total Assets	163,481 825,343	167,162 881,874
Liabilities Current Farm Liabilities Accrued interest Accounts payable Current notes Government crop loans Principal due on term debt Total current farm liabilities	5,950 20,200 69,067 0 29,773 124,990	6,568 12,525 73,868 3,371 32,947 129,279
Total intermediate farm liabs Total long term farm liabilities Total farm liabilities	75,783 135,507 336,281	113,245 155,796 398,320
Total nonfarm liabilities Total liabilities	6,990 343,271	3,595 401,915
Net worth (farm and nonfarm) Net worth change	482,072	479,959 -2,113
Ratio Analysis Current farm liabilities / assets Curr. & interm farm liab. / assets Long term farm liab. / assets Total debt to asset ratio	64 % 56 % 45 % 42 %	64 % 64 % 46 % 46 %

#### Balance Sheet at Market Values Michigan Cash Grain, 800 to 1199 Acres, 2002

Avg	g. Of
All	Farms

Number of farms	17	,
	Beginning	Ending
Assets Current Farm Assets Cash and checking balance Prepaid expenses & supplies	22,480 19,829	20,765 18,932
Growing crops Accounts receivable Hedging accounts	4,455 15,831 195	20,317
Crops held for sale or feed Crops under government loan Market livestock held for sale	124,637 0 8,462	4,059
Other current assets Total current farm assets	0 195,888	
Intermediate Farm Assets Breeding livestock Machinery and equipment Titled vehicles	9,603 387,675 0	407,104 0
Other intermediate assets Total intermediate farm assets	19,136 416,415	
Long Term Farm Assets Farm land Buildings and improvements Other long-term assets	768,620 56,204 9,194	831,801 65,563 9,123
Total long-term farm assets Total Farm Assets		906,487
Total Nonfarm Assets Total Assets	231,230 1,677,550	248,952 1,795,245
Liabilities Current Farm Liabilities Accrued interest Accounts payable Current notes Government crop loans Principal due on term debt Total current farm liabilities	5,950 20,200 69,067 0 29,773 124,990	12,525 73,868 3,371 32,947
Total intermediate farm liabs Total long term farm liabilities Total farm liabilities	75,783 135,507 336,281	155,796
Total nonfarm liabilities Total liabs excluding deferreds Total deferred liabilities Total liabilities	6,990 343,271 0 343,271	401,915 0
Retained earnings Market valuation equity Net worth (farm and nonfarm) Net worth excluding deferreds Net worth change	482,072 852,207 1,334,279 1,334,279	913,371 1,393,330
Ratio Analysis Current farm liabilities / assets Curr. & interm farm liab. / assets Long term farm liab. / assets Total debt to asset ratio Debt to assets excl deferreds	64 % 33 % 16 % 20 % 20 %	64 % 38 % 17 % 22 % 22 %

#### Statement Of Cash Flows Michigan Cash Grain, 800 to 1199 Acres, 2002

	Avg. Of All Farms
Number of farms	17
Beginning cash (farm & nonfarm)	25,012
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	307,267 21,609 -261,326 -38,879 -6,882 21,789
Cash From Investing Activities Sale of breeding livestock Sale of machinery & equipment Sale of titled vehicles 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 land Purchase of farm buildings Purchase of other farm assets Purchase of nonfarm assets Cash from investing activities	$ \begin{array}{r}     196 \\     5,106 \\     - \\     7,471 \\     - \\     1,376 \\     403 \\     -1,958 \\     -56,664 \\     - \\     -31,765 \\     -8,975 \\     -760 \\     -2,108 \\     -87,677 \\ \end{array} $
Cash From Financing Activities Money borrowed Cash gifts and inheritances Principal payments Dividends paid Gifts given Cash from financing activities	185,094 10,149 -117,895 - -6,105 71,244
Net change in cash balance	5,356
Ending cash (farm & nonfarm)	30,368

Financial Standards Measures Michigan Cash Grain, 800 to 1199 Acres, 2002 (Farms Sorted By Rate of Return on Assets - Cost)

	Avg. Of All Farms
Number of farms	17
Liquidity Current ratio Working capital	1.57 74,053
Solvency (market) Farm debt to asset ratio Farm equity to asset ratio Farm debt to equity ratio	26 % 74 % 35 %
Profitability (cost) Rate of return on farm assets Rate of return on farm equity Operating profit margin Net farm income	-1.0 % -7.4 % -2.1 % 13,982
Repayment Capacity Term debt coverage ratio Capital replacement margin	127 % 10,933
Efficiency Asset turnover rate (cost) Operating expense ratio Depreciation expense ratio Interest expense ratio Net farm income ratio	45.3 % 75.1 % 15.2 % 5.3 % 4.4 %

Table 41

Table 42Operator and Labor InformationMichigan Cash Grain, 800 to 1199 Acres, 2002(Farms Sorted By Rate of Return on Assets - Cost)

	Avg. Of All Farms	
Number of farms	17	
Operator Information Average number of operators Average age of operators Average number of years farming	1.4 52.9 32.6	
Results Per Operator Working capital Total assets (market) Total liabilities Net worth (market) Net worth excl deferred liabs	52,236 1,266,355 283,508 982,847 982,847	
Gross farm income Total farm expense Net farm income	223,837 213,974 9,863	
Net nonfarm income Family living & tax withdrawals	15,243 32,280	
Total acres owned Total crop acres Crop acres owned Crop acres cash rented Crop acres share rented Total pasture acres	336.4 683.6 257.1 366.5 60.0	
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	17 3,064 812 3,876 2,161 80.36 4.56	

44

#### Financial Summary Michigan Cash Grain, 800 to 1199 Acres, 2002 (Farms Sorted By Rate of Return on Assets - Cost)

	Avg. Of All Farms
Number of farms	17
Income Statement Gross cash farm income Total cash farm expense Net cash farm income Inventory change Depreciation and capital adjust Net farm income	307,267 261,326 45,941 16,215 -48,174 13,982
Profitability (cost) Labor and management earnings Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	-5,570 -1.0 % -7.4 % -2.1 % 45.3 %
Profitability (market) Labor and management earnings Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	-6,636 2.7 % 2.1 % 13.0 % 20.8 %
Liquidity Term debt coverage ratio Expense as a percent of income Interest as a percent of income	126.9 % 80.4 % 5.3 %
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	17 714,712 398,320 881,874 401,915 479,959 -2,113 56 % 42 % 46 %
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	17 1,546,293 398,320 1,795,245 401,915 1,393,330 59,051 26 % 20 % 22 %
Nonfarm Information Net nonfarm income	21,609
Crop Acres Total acres owned Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented	477 969 364 520 85

#### D. Financial Summary Information, Farms with 1200 Plus Acres

Table 44Crop Production and Marketing Summary Michigan Cash Grain, 1200 Acres Plus, 2002 (Farms Sorted By Rate of Return on Assets - Cost)					
	Avg. Of				
	All Farms	Low 25%	High 25%		
Number of farms	25	6	7		
Acreage Summary					
Total acres owned	522	104	742		
Total crop acres	2,245	3,076	2,170		
Crop acres owned	464	83	641		
Crop acres cash rented	1,781	2,993	1,530		
Crop acres share rented	-	-	-		
Total pasture acres	-	-	-		
Average Price Received (Cash Sales Or	ly)				
Corn per bushel	2.11	2.06	2.04		
Soybeans per bushel	4.64	4.44	4.53		
Wheat, Winter per bushel	2.83	-	-		
Straw per ton	7.08	-	-		

Farm Income Statement Michigan Cash Grain, 1200 Acres Plus, 2002 (Farms Sorted By Rate of Return on Assets - Cost)

	Avg. Of All Farms	Low 25%	High 25%
Number of farms	25	6	7
Cash Farm Income			
Beans, Green	15,081	10,325	-
Beans, Light Red Kidney	495	-	1,769
Clover Seed	638	-	-
Corn	187,392	225,041	220,863
Corn Silage	4,362	15,662	-
Corn, Seed	44,285	38,972	53,931
Cucumbers	9,937	-	-
Hay, Alfalfa	2,135	-	-
Hay, Mixed	6,339	370	20,714
Haylage, Alfalfa	4,017	15,611	-
Oatlage	197	822	-
Oats	3,990	-	107
Potatoes	18,584	77,432	-
Soybeans	197,092	251,304	218,634
Soybeans Seed	2,593	-	-
Straw	3,903	-	5,659
Sugar Beets	11,388	-	40,670
Sweet Corn	7,509	-	-
Wheat, Durum	3,251	-	11,609
Wheat, Spring	934	-	1,166
Wheat, Winter	39,467	76,564	17,613
Barley, Seed	680	-	-
Oats, Seed	207	-	-
Miscellaneous crop income	84	-	-
Beef, Finish Beef Calves	1,980	-	-
Beef, Finish Yrlg Steers	748	-	-
Dairy Heifers (for sale)	6,320	26,333	-
Hogs, Finish Feeder Pigs	11,474	47,808	-
Hogs, Weaning to Finish	5,220	-	-
Misc. livestock income	634	-	-
Direct & CC govt payments	4,116	-	14,699
Other government payments	35,381	45,821	43,571
Custom work income	39,782	67,183	17,636
Insurance income	15,952	20,215	11,972
Other farm income	33,905	84,470	7,874
Gross Cash Farm Income	720,070	1,003,933	688,486

Table 45 (continued)Farm Income StatementMichiganCash Grain, 1200 Acres Plus, 2002

	Avg. Of		
	All Farms	Low 25%	High 25%
Number of farms	25	б	7
Cash Farm Expense			
Seed	54,714	82,841	52,674
Fertilizer	101,311	128,099	91,080
Crop chemicals	55,936	77,620	71,484
Crop insurance	1,842	5,874	-3,951
Drying fuel	1,539	16	5,170
Irrigation energy	2,560	4,721	-
Crop custom hire	. 90	-	321
Crop hauling and trucking	344	-	1,115
Crop marketing	2,908	773	5,278
Crop miscellaneous	3,092	6,592	4,267
Feeder livestock purchase	5,485	14,441	-
Purchased feed	13,412	11,136	-
Breeding fees	142	-	-
Veterinary	874	2,068	51
Livestock supplies	1,509	2,051	-
Livestock marketing	455	1,896	-
Interest	49,156	58,813	27,642
Packaging and supplies	270	-	964
Fuel & oil	26,389	30,821	28,868
Repairs	47,611	48,444	47,575
Custom hire	26,481	49,051	5,066
Hired labor	54,250	75,037	47,281
Land rent	133,255	256,806	127,117
Machinery & bldg leases	8,770	4,938	9,618
Real estate taxes	10,912	11,796	8,595
Personal property taxes	441	1,839	-
Farm insurance	19,094	27,382	15,510
Utilities	11,564	13,300	9,853
Hauling and trucking	214	30	89
Dues & professional fees	6,441	11,543	3,561
Hedging account deposits	230	834	107
Miscellaneous	38,671	95,368	8,267
Total cash expense	679,963		567,604
Net cash farm income	40,107	-20,194	120,882
Inventory Changes			
Crops and feed	31,334	-63,537	166,007
Market livestock	-3,652	-14,067	-
Accounts receivable	-1,909	12,412	-19,082
Prepaid expenses and supplies	-19,137	-63,713	-6,727
Accounts payable	5,221	-16,389	-8,666
Total inventory change	11,858	-145,294	131,532
Net operating profit	51,965	-165,487	252,414
Depreciation and Other Capital Adjus	stments		
Breeding livestock Machinery and equipment	-66 204	- 120 007	-20 060
	-66,204	-132,827	-38,060
Buildings and improvements	-32,438	-91,688	-18,396
Other farm capital	18,431	76,612	137
Total depr. and other capital adj	-80,210	-147,903	-56,319
Net farm income	-28,245	-313,391	196,094

Inventory Changes Michigan Cash Grain, 1200 Acres Plus, 2002 (Farms Sorted By Rate of Return on Assets - Cost)

	Avg. Of All Farms	Low 25%	High 25%
Number of farms	25	6	7
Net cash farm income	40,107	-20,194	120,882
Crops and Feed Ending inventory	259,449	229,472	404,090
Beginning inventory Inventory change	228,115 31,334	293,008 -63,537	238,083 166,007
Market Livestock			
Ending inventory	5,747	1,833	-
Beginning inventory	9,399	15,900 -14,067	-
Inventory change	-3,652	-14,06/	-
Accts Receivable & Other Current A	Assets		
Ending inventory	85,380	119,794	40,487
Beginning inventory	87,289	107,383	59,569
Inventory change	-1,909	12,412	-19,082
Prepaid Expenses and Supplies			
Ending inventory	37,872	51,350	46,724
Beginning inventory	57,009	115,062	53,450
Inventory change	-19,137	-63,713	-6,727
Accounts Payable & Accrued Expense	es		
Beginning inventory	61,792	38,869	45,156
Ending inventory	56,570	55,259	53,823
Inventory change	5,221	-16,389	-8,666
Total inventory change	11,858	-145,294	131,532
Net operating profit	51,965	-165,487	252,414

Table 47Depreciation and Other Capital AdjustmentsMichigan Cash Grain, 1200 Acres Plus, 2002(Farms Sorted By Rate of Return on Assets - Cost)

	Avg. Of All Farms	Low 25%	High 25%
Number of farms	25	6	7
Net operating profit	51,965	-165,487	252,414
Breeding Livestock			
Ending inventory	16,803	70,013	-
Capital sales	-	-	-
Beginning inventory	16,803	70,013	-
Capital purchases Depreciation, capital adjust.	-	-	-
Depreciation, capital adjust.	-	-	-
Machinery and Equipment			
Ending inventory	233,849	372,286	194,490
Capital sales	12,309	4,950	5,666
Beginning inventory	242,748	428,994	190,704
Capital purchases	69,614	81,070	47,513
Depreciation, capital adjust.	-66,204	-132,827	-38,060
Buildings and Improvements			
Ending inventory	103,024	184,002	30,861
Capital sales	-	-	-
Beginning inventory	109,787	190,350 85,339	49,257
Capital purchases Depreciation, capital adjust.	25,676 -32,438	-91,688	- 18,396
Depreciation, capital adjust.	-32,430	-91,000	-10,390
Other Capital Assets			
Ending inventory	42,373	154,236	11,360
Capital sales	11,036	34,786	7,077
Beginning inventory	19,017	46,072	18,157
Capital purchases	15,961	66,338	143
Depreciation, capital adjust.	18,431	76,612	137
Total depreciation, capital adj.	-80,210	-147,903	-56,319
Net farm income	-28,245	-313,391	196,094

# Profitability Measures **Michigan Cash Grain, 1200 Acres Plus, 2002** (Farms Sorted By Rate of Return on Assets - Cost)

	Avg. Of All Farms	Low 25%	High 25%
Number of farms	25	б	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	) -28,245 -51,111 -2.8 % -27.5 % -5.0 % 56.8 %	-322,584 -22.9 %	196,094 153,414 12.2 % 18.9 % 19.4 % 62.8 %
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	22,865 49,308 57,522 -36,460 1,279,430 -85,768 312,125 726,947	9,193 49,724 54,698 -318,364 1,392,710 -368,088 7,180 913,164	42,680 29,567 63,430 162,231 1,329,953 132,664 702,518 835,411
	Avg. Of All Farms	Low 25%	High 25%
Number of farms	25	б	7
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	et) 60,239 -23,916 2.2 % 0.2 % 7.2 % 30.7 %	-169,159 -215,971 -8.0 % -28.7 % -19.1 % 42.2 %	272,204 164,726 9.9 % 11.7 % 28.5 % 34.5 %
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	84,155 49,308 57,522 52,024 2,369,883 2,716 1,402,578 726,947	46,812 49,724 54,698 -174,132 2,165,729 -223,856 780,199 913,164	107,478 29,567 63,430 238,341 2,418,734 208,774 1,791,298 835,411

Liquidity Measures Michigan Cash Grain, 1200 Acres Plus, 2002 (Farms Sorted By Rate of Return on Assets - Cost)

	Avg. Of All Farms	Low 25%	High 25%
Number of farms	25	б	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	40,107 13,209 47,760 16,721 -11,166 218,818	-20,194 22,992 48,953 20,640 -66,795 407,430	120,882 2,819 55,692 18,362 49,648 231,946
Years to turnover interm. debt Expense as a % of income Interest as a % of income	** 94 % 7 %	** 102 % 6 %	4.7 82 % 4 %
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	745,844 693,879 51,965 13,209 47,760 16,721 693 218,818	938,741 1,104,229 -165,487 22,992 48,953 20,640 -212,088 407,430	835,411 582,997 252,414 2,819 55,692 18,362 181,180 231,946
Years to turnover interm. debt Expense as a % of income Interest as a % of income	316.0 93 % 7 %	** 118 % 5 %	1.3 70 % 4 %

\*\* Income insufficient to meet debt servicing requirements

#### Balance Sheet at Cost Values Michigan Cash Grain, 1200 Acres Plus, 2002 (Farms Sorted By Rate of Return on Assets - Cost)

	Avg. O All Fari		Low 2	5%	High 2	5%
Number of farms	2	5		6	,	7
2	Beginning	Ending	Beginning	Ending	Beginning	Ending
Assets Current Farm Assets						
Cash and checking balance	30,893	61,781	58,670	73,347	9,812	84,213
Prepaid expenses & supplies	57,009					
Growing crops	15,924					
Accounts receivable	48,300			,	,	
Hedging accounts	624					
Crops held for sale or feed	228,115					
Crops under government loan	0					
Market livestock held for sale	9,399	5,747	15,900	1,833	0	0
Other current assets	22,440	19,448	41,615	41,615	709	4,080
Total current farm assets	412,705	450,230	590,023	475,796	360,915	575,514
Intermediate Farm Assets						
Breeding livestock	16,803					0
Machinery and equipment	242,748					
Titled vehicles	0					
Other intermediate assets	11,940					
Total intermediate farm assets	271,491	285,768	522,896	573,617	203,397	200,392
Long Term Farm Assets						
Farm land	451,661	459,861	100,403	103,236	599,753	628,895
Buildings and improvements	109,787	103,024	190,350	184,002	49,257	30,861
Other long-term assets	7,076	7,258	22,181	22,918	5,464	5,458
Total long-term farm assets	568,524	570,143	312,934	310,155	654,474	665,215
Total Farm Assets	1,252,720	1,306,140	1,425,853	1,359,567	1,218,786	1,441,121
Total Nonfarm Assets	224,320	207,367	546,287	511,494	11,021	10,839
Total Assets				1,871,061		
Liabilities						
Current Farm Liabilities						
Accrued interest	18,346	18,497	20,497	11,408	12,850	14,775
Accounts payable	43,446	38,073	18,373	43,851	32,306	39,048
Current notes	313,702	299,120	528,436	589,902	215,266	190,530
Government crop loans	0				0	0
Principal due on term debt	56,303					
Total current farm liabilities	431,797	412,075	661,765	720,118	318,328	327,586
Total intermediate farm liabs	158,670	199,440	308,437	370,836	151,837	212,489
Total long term farm liabilities	326,324					
Total farm liabilities				1,522,063		
Total nonfarm liabilities	5,681	3.727	7,063	0	0	302
Total liabilities				1,522,063		
Net worth (farm and nonfarm)	554,568					
Net worth change		-62,608		-367,082		111,428
Ratio Analysis						
Current farm liabilities / assets	105 %					57 %
Curr. & interm farm liab. / assets	86 %				83 %	70 %
Long term farm liab. / assets	57 %					
Total debt to asset ratio	62 %	67 %	64 %	81 %	47 %	47 %

#### Balance Sheet at Market Values Michigan Cash Grain, 1200 Acres Plus, 2002

	Avg. O: All Farm		Low	25%	High 2!	5%
Number of farms	2	5		б		7
Assets	Beginning	Ending	Beginning	Ending	Beginning	Ending
Current Farm Assets	20 002	61 701	E9 670	72 247	0 910	0/ 010
Cash and checking balance Prepaid expenses & supplies	30,893 57,009					84,213 46,724
Growing crops	15,924					
Accounts receivable	48,300					
Hedging accounts	624					-43
Crops held for sale or feed	228,115					
Crops under government loan Market livestock held for sale	0 9,399					0
Other current assets	22,440					4,080
Total current farm assets	412,705					
Intermediate Farm Assets	16 000	16 000	<b>FO</b> 010	<b>FO</b> 010		0
Breeding livestock Machinery and equipment	16,803 600,596					0 591,509
Titled vehicles	000,590					0 S91,509
Other intermediate assets	11,940					
Total intermediate farm assets	629,339			946,242	583,758	597,411
Long Term Farm Assets Farm land	1 094 754	1,144,276	438,281	151 010	1,229,086	1 200 5/2
Buildings and improvements	165,056					
Other long-term assets	7,076		,	22,918		
Total long-term farm assets	1,256,887	1,347,032			1,324,839	
Total Farm Assets	2,298,930	2,440,835	2,126,757	2,204,702	2,269,512	2,567,956
Total Nonfarm Assets	352,633		834,649			
Total Assets	2,651,563	2,788,750	2,961,405	3,06/,113	2,293,436	2,590,750
Liabilities Current Farm Liabilities						
Accrued interest	18,346	18,497	20,497	11,408	12,850	14,775
Accounts payable	43,446					
Current notes	313,702			589,902	215,266	190,530
Government crop loans	0					
Principal due on term debt Total current farm liabilities	56,303 431,797					
Total intermediate farm liabs Total long term farm liabilities	158,670 326,324					
Total farm liabilities		1,017,820				
Total nonfarm liabilities	5,681	3,727	7,063	0	0	302
Total liabs excluding deferreds Total deferred liabilities		1,021,547		1,522,063	572,224 0	682,949 0
Total liabilities		1,021,547			-	682,949
Retained earnings	554,568	491,960	716,080		,	
Market valuation equity		1,275,242			1,063,629	
Net worth (farm and nonfarm)					1,721,212	
Net worth excluding deferreds Net worth change	1,729,092	38,110	1,705,345	-160,295	1,721,212	186,589
Ratio Analysis						
Current farm liabilities / assets	105 %		112 %	151 %	88 %	57 %
Curr. & interm farm liab. / assets Long term farm liab. / assets	57 % 26 %		66 % 42 %	77 % 55 %	50 % 8 %	46 % 10 %
Total debt to asset ratio	20 ° 35 %		42 %	50 %	25 %	10 % 26 %
Debt to assets excl deferreds	35 %	37 %	42 %	50 %	25 %	26 %

Statement Of Cash Flows Michigan Cash Grain, 1200 Acres Plus, 2002 (Farms Sorted By Rate of Return on Assets - Cost)

	Avg. Of All Farms	Low 25%	High 25%
Number of farms	25	6	7
Beginning cash (farm & nonfarm)	30,893	58,670	9,812
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	720,070 13,209 -679,963 -43,622 -4,138 5,556	22,992 -1,024,127 -44,124 -4,829	688,486 2,819 -567,604 -54,979 -712 68,009
Cash From Investing Activities Sale of breeding livestock Sale of machinery & equipment Sale of titled vehicles 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 titled vehicles Purchase of farm land Purchase of farm buildings Purchase of other farm assets Purchase of nonfarm assets Cash from investing activities	- 12,309 3,420 - 11,036 668 - -69,614 - -8,840 -25,676 -15,961 -29 -92,687		- 5,666 - - 7,077 - - -47,513 - 29,143 - -143 - - 143 -
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	387,509 26,727 -281,836 - -14,381 118,019 30,888	-362,275 - 256,677 14,677	-31,612 70,447 74,401
Ending cash (farm & nonfarm)	61,781	73,347	84,213

### Financial Standards Measures Michigan Cash Grain, 1200 Acres Plus, 2002 (Farms Sorted By Rate of Return on Assets - Cost)

	Avg. Of All Farms	T OW 25%	High 25%
	AII FAIMS	TOM 72%	HIGH 25%
Number of farms	25	6	7
Liquidity			
Current ratio	1.09	0.66	1.76
Working capital	38,155	-244,322	247,929
Solvency (market)			
Farm debt to asset ratio	42 %	69 %	27 %
Farm equity to asset ratio	58 %	31 %	73 %
Farm debt to equity ratio	72 %	223 %	36 %
Profitability (cost)			
Rate of return on farm assets	-2.8 %	-22.9 %	12.2 %
Rate of return on farm equity		-5,126.5 %	
Operating profit margin	-5.0 %	-34.9 %	19.4 %
Net farm income	-28,245	-313,391	196,094
Repayment Capacity			
Term debt coverage ratio	48 %	-148 %	289 %
Capital replacement margin	-36,217	-245,077	122,618
Efficiency			
Asset turnover rate (cost)	56.8 %	65.6 %	62.8 %
Operating expense ratio	86.4 %	112.3 %	66.2 %
Depreciation expense ratio	10.8 %	15.8 %	6.7 %
Interest expense ratio	6.6 %	5.3 %	3.5 %
Net farm income ratio	-3.8 %	-33.4 %	23.5 %

#### Operator and Labor Information Michigan Cash Grain, 1200 Acres Plus, 2002 (Farms Sorted By Rate of Return on Assets - Cost)

Table 54

Avq. Of All Farms Low 25% High 25% Number of farms 25 6 7 Operator Information 1.7 Average number of operators1.5Average age of operators51.2Average number of years farming27.8 1.7 48.8 1.6 51.7 25.2 28.9 Results Per Operator 25,102 -146,593 157,773 Working capital 1,834,704 1,840,268 1,648,659 Total assets (market) Total liabilities672,071913,238434,604Net worth (market)1,162,633927,0301,214,055Net worth excl deferred liabs1,162,633927,0301,214,055 490,687563,245531,625509,269751,279406,838-18,583-188,034124,787 Gross farm income Total farm expense Net farm income 
 Net nonfarm income
 8,690
 13,795
 1,794

 Family living & tax withdrawals
 31,421
 29,372
 35,440

 343.6
 62.5
 472.5

 1,477.0
 1,845.6
 1,381.1

 305.5
 50.0
 407.8
 Total acres owned Total crop acres Crop acres owned 305.5 1,171.5 Crop acres cash rented 1,795.6 973.3 \_ Crop acres share rented --\_ \_ \_ Total pasture acres Labor Analysis Labor AnalysisNumber of farms2567Total unpaid labor hours3,8173,5004,102Total hired labor hours4,8926,7103,628Total labor hours per farm8,70810,2107,730Unpaid hours per operator2,5112,1002,610Value of farm production / hour83.4889.44108.07Net farm income / unpaid hour-7.40-89.5447.81 Partnerships Number of farms 6 1 2 Number of operators 2.2 -\_ Owner withdrawals per farm -Withdrawals per operator \_

#### Financial Summary Michigan Cash Grain, 1200 Acres Plus, 2002 (Farms Sorted By Rate of Return on Assets - Cost)

	Avg. Of All Farms	Low 25%	High 25%
Number of farms	25	6	7
Income Statement Gross cash farm income Total cash farm expense Net cash farm income Inventory change Depreciation and capital adjust Net farm income	720,070 679,963 40,107 11,858 -80,210 -28,245	1,024,127	688,486 567,604 120,882 131,532 -56,319 196,094
Profitability (cost) Labor and management earnings Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	-51,111 -2.8 % -27.5 % -5.0 % 56.8 %	-22.9 % -5,126.5 % -34.9 %	12.2 % 18.9 %
Profitability (market) Labor and management earnings Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	-23,916 2.2 % 0.2 % 7.2 % 30.7 %	-215,971 -8.0 % -28.7 % -19.1 % 42.2 %	
Liquidity Term debt coverage ratio Expense as a percent of income Interest as a percent of income	47.8 % 93.0 % 6.6 %	-147.7 % 117.6 % 5.3 %	288.9 % 69.8 % 3.5 %
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	25 1,306,140 1,017,820 1,513,508 1,021,547 491,960 -62,608 78 % 62 % 67 %	1,522,063 1,871,061 1,522,063 348,998 -367,082 112 % 64 %	682,647
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	25 2,440,835 1,017,820 2,788,750 1,021,547 1,767,202 38,110 42 % 35 % 37 %	1,522,063 3,067,113	7 2,567,956 682,647 2,590,750 682,949 1,907,800 186,589 27 % 25 % 26 %
Nonfarm Information Net nonfarm income	13,209	22,992	2,819
Crop Acres Total acres owned Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented	522 2,245 464 1,781	104 3,076 83 2,993 -	742 2,170 641 1,530