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## Staff Paper

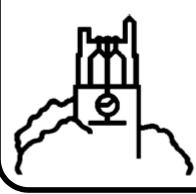
### 2002 Business Analysis Summary Dairy Grazing Farms

Eric Wittenberg And Christopher Wolf

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

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#### 2002 Michigan Dairy Grazing Farm Business Analysis Summary

2002 Michigan TelFarm and AgriSolutions Data Staff Paper No. 03-16

by

Eric Wittenberg and Christopher Wolf

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#### 2002 Michigan Dairy Grazing Farm Business Analysis Summary

## by Eric Wittenberg and Christopher Wolf<sup>1</sup>

Table of Contents		Page	
Executive Sun	nmary	1	
List of Tables	•		
	1) Average 2002 Farm Characteristics	2	
	2) Average Income Statement	3	
	3) Average Profitability Indicators	3	
	4) Average Profitability Indicators	4	
	5) Average Income and Expenses	5	
	6) Livestock and Crop Production Summary	6	
	7) Farm Income Statement	8	
	8) Inventory Changes	10	
	9) Depreciation and Other Capital Adjustment	11	
	10) Profitability Measures	12	
	11) Liquidity Measures	13	
	12) Balance Sheet at Cost Values	14	
	13) Balance sheet at Market Values	15	
	14) Statement of Cash Flows	16	
	15) Financial Standards Measures	17	
	16) Operator Information and Nonfarm Summary	18	
	17) Financial Summary	19	

<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.

#### **Executive Summary**

This report summarizes the financial and production records of 9 dairy farms that practiced grazing across Michigan. To be included, the farms must have produced at least 50 percent of gross cash farm income from milk and dairy animal sales. The records came from Michigan State University's TelFarm/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 and discussion that follows. The 2002 Business Summary farms were sorted by the Rate of Return to Assets (ROA), which is a measure of profitability adjusted for value of assets.

#### Summary of Results

In 2002, the average dairy grazing farm in the business analysis had 111 cows producing an average of 15,758 pounds of milk per cow (Table 1). Milk price, based on gross milk income, averaged \$12.87/cwt. The average net farm income for 9 dairy grazing farms in the business analysis was \$16,945. The median was \$29,624 and the standard deviation was \$37,770.

Table 1. Ave. 2002 Michigan Dairy Grazing Farm Characteristics

	Grazing
Average number of cows	111
Milk sold per cow (pounds)	15,758
Average price of milk sold (\$/cwt)	12.87
Total acres owned	400
Total cropped acres	464
Cropped acres per cow	4.2
Number of farms	9

Gross cash farm income averaged \$277,302 in 2002. The largest component of these revenues was milk sales, which averaged \$218,422. Government payments helped alleviate some of the milk sales shortfall in 2002 as they averaged \$28,582. This increase was likely largely related to the Milk Income Loss Contract payments.

Average total cash expenses were \$237,264 in 2002 and average net cash farm income was \$40,038. Given less taxable income, these dairy farms were not able to build total inventories, which averaged a negative \$1,766. Depreciation and capital adjustments averaged a negative \$21,326.

The net farm income value is the return to operator unpaid management, labor and capital invested. Net farm income in 2002 averaged \$16,945, Table 2.

**Table 2. Average 2002 Michigan Dairy Grazing Farm Income Statement** 

	2002
	(\$)
Gross cash farm income	277,302
Total cash expense	237,264
Net cash farm income	40,038
Inventory change	-1,766
Depreciation and capital adjustments	-21,326
Net farm income	16,945

Table 3. Average Michigan Dairy Grazing Farm Profitability Indicators, 2000-2002

	2000	2001	2002
		(percent)	
Rate of return on assets*	5.3	2.4	-2.8
Rate of return on equity	4.6	-0.5	-9.3
Operating profit margin	11.2	5.1	-7.3
Asset turnover rate*	46.9	47.1	38.8

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

Table 3 compares profitability across three years with assets valued at cost. In 2002, the financial indicators ROA, ROE and OPM were negative. In 2002, the ROA was a negative 2.8 percent and for 2001 the ROA was 2.4 percent, a 216 percent decrease. In 2000, the ROA was 5.3 percent, a 152 percent decrease from 2000 to 2002. In 2002, the return on equity was a negative 9.3 percent, a decrease from 2001 of nearly 9 percent. In 2002, the OPM was a negative 7.3 percent, a decrease of 12 percent from 2001. The asset turnover rate decreased from 47.1 percent in 2001 to 38.8 percent in 2002, an 18 percent decrease. On the cost side of profitability measures, on average, all dairy grazing farms had a negative returns or experienced a decrease. Given the lower price for milk in 2002, farms generated less revenues per dollar invested in farm assets.

Table 4 compares profitability measures across three years with assets valued at market. The market value approach includes the impact of price appreciation (inflation) of the asset base over time. Primarily land is the main focus here for price appreciation and reflects a form of income. Financial performance indicators like ROA can be looked upon in this comparison as the "opportunity cost of capital" or farming versus an 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 average dairy grazing farms' ROA for 2002 was 3.4 percent, which was 58 percent below the 2001 average dairy farm ROA of 8.0 percent. Return on equity show a greater percentage loss, in 2002 the ROE averaged 2.7 percent and in 2001 the average was 8.4 percent, a 68 percent decrease.

Operating profit margin measures the dollars of profit generated per dollar of revenue. In 2002, dairy grazing farms generated 16 cents of profit per dollar of revenue. In 2001, the average operating profit margin was 32.4 and in 2000 the average operating profit margins was 41.2, a 51 percent and 61 percent decline from 2002 value respectively. Asset turnover measures the efficiency with which farm assets generate revenue. In 2002, the asset turnover ratio was 21.5 percent, a decline of 12 percent but remained very close to 2001 and 2000 values, meaning that the farms were fairly equal in each year with respect to efficiency, given the lower milk price in 2002.

Table 4. Average Michigan Dairy Grazing Farm Profitability Indicators, 2000-2002

	2000	2001	2002
		(percent)	
Rate of return on assets*	9.6	8.0	3.4
Rate of return on equity	10.5	8.4	2.7
Operating profit margin	41.2	32.4	16.0
Asset turnover rate*	23.4	24.6	21.5

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

#### Per Unit Income and Expenses

Table 5 gives the average income and expenses per hundredweight (cwt.) of milk and per cow for 9 dairy farms. Both income and expenses were adjusted to an accrual basis where detailed financial information was provided. Average, accrual adjusted income and expenses per cropped acre are also included.

Income items related to the dairy herd are included. Milk sales accounted for 79 percent of milk income items on average. Government payments includes all farm government payments—not just those related to the dairy herd. It was not possible to separate crop payments from dairy payments. Given the very low milk prices in 2002, it is likely that many farms received a large

portion of government payments in the form of the Milk Income Loss Contract (MILC) and were, in fact, related to the milking herd.

Table 5 should not be interpreted as an estimate of the true cost of producing milk. All farm sales are not included in the income items—only those that are related to the milking herd. Also, unpaid factors, including labor, management and capital, are not accounted for in the expense items. In addition, the allocation of resources amongst farm enterprises is not accurately reflected leaving the milking herd as the residual claimant on all expenses.

The largest expense was purchased feed at \$3.73/cwt. Hired labor was the second largest expense at \$1.95/cwt. Depreciation, interest, and repairs were also significant expenses on the average Michigan dairy farm.

The bottom of Table 5 presents the crop related expenses divided by the total cropped acres. To accurately calculate a crop cost of production would require labor and management—among other—expenses that are not separated out in the financial records.

Table 5. Average Income and Expenses across all grazing farms\*, 2002

Income Items:	Per cwt.	Per Cow
Milk	\$12.87	\$1,991.5
Cull Cows and Calves	\$1.01	\$148.6
Dairy Steers	\$0.00	\$0.6
Government Payments	\$1.80	\$269.3
Other Cash Income	\$0.29	\$43.2
Expense Items:	Per cwt.	Per Cow
Purchased Feeds	\$3.73	\$595.3
Breeding Fees	\$0.09	\$16.0
Veterinary	\$0.47	\$70.9
BST	\$0.00	\$0.0
Livestock Supplies	\$1.00	\$149.9
DHIA	\$0.01	\$2.2
Milk & Livestock Mkt. & Trucking	\$0.87	\$134.1
Interest	\$0.79	\$120.9
Fuel and Oil	\$0.38	\$55.3
Repairs	\$1.66	\$238.2
Custom Hire	\$0.40	\$76.18
Hired Labor	\$1.95	\$295.8
Leases	\$0.04	\$7.8
Real Estate Taxes	\$0.18	\$25.0
Farm Insurance	\$0.27	\$41.4
Utilities	\$0.44	\$68.3
Dues, Professional Fees	\$0.14	\$22.62
Miscellaneous	\$0.18	\$33.4
Machinery Depreciation	\$0.72	\$114.9°
Building Depreciation	\$0.34	\$61.5
Expense Items per Cropped Acre:	Per Acre	
Seed	\$14.72	
Fertilizer	\$15.11	
Crop Chemicals	\$3.77	
Crop Insurance	\$0.07	
Crop Miscellaneous	\$2.23	
Land Rent	\$7.29	

<sup>\*</sup>All income and expenses items were averaged across 9 farms whether they had this income or expenses item or not.

## Table 6 Crop Production and Marketing Summary Michigan Dairy (Grazing), 2002 (Farms Sorted By Rate of Return on Assets - Cost)

	Avg. Of All Farms
Dairy	
Number of farms	9
Average number of Cows	111
Milk production per Cow, lbs.	15,758
Average milk price per cwt.	\$12.87
Cropped Acres per cow	4.3
Acreage Summary	
Total acres owned	400
Total crop acres	464
Crop acres owned	268
Crop acres cash rented	196
Crop acres share rented	_

Total pasture acres

### Farm Income Statement Michigan Dairy (Grazing), 2002

	Avg. Of All Farms
Number of farms	9
Cash Farm Income	
Corn	764
Hay, Alfalfa	276
Hay, Mixed	3,770
Other crops	233
Beef Cow-Calf, Beef Calves	36
Dairy, Milk	218,422
Dairy, Dairy Calves	2,527
Dairy Steers	27
Cull breeding livestock	16,424
Other government payments	28,582
Custom work income	92
Patronage dividends, cash	4,236
Insurance income	462
Other farm income	1,451
Gross Cash Farm Income	277,302

#### Table 7 (continued)

### Farm Income Statement Michigan Dairy (Grazing), 2002

	Avg. Of All Farms	
Number of farms	9	
Cash Farm Expense Seed Fertilizer Crop chemicals Crop insurance Crop miscellaneous Purchased feed Breeding fees Veterinary BST Livestock supplies Livestock utilities Hauling and trucking Marketing Interest Fuel & oil Repairs Custom hire Hired labor Land rent Machinery & bldg leases Real estate taxes Personal property taxes Farm insurance Utilities Dues & professional fees Miscellaneous Total cash expense	1,641 5,027 1,119 33 2,039 66,965 1,881 8,028 812 13,153 1,627 724 13,097 13,578 7,129 27,095 10,527 34,893 5,316 1,669 2,590 181 4,258 5,271 2,051 6,560 237,264	
Net cash farm income  Inventory Changes    Crops and feed    Market livestock    Accounts receivable    Prepaid expenses and supplies    Accounts payable  Total inventory change Net operating profit  Depreciation and Other Capital Adjust Breeding livestock    Machinery and equipment    Buildings and improvements	40,038  -1,116 981 290 -1,312 -610 -1,766 38,271  stments 6,876 -12,677 -4,777	
Other farm capital Total depr. and other capital adj	-10,749 -21,326	
Net farm income	16,945	

### Table 8 Inventory Changes Michigan Dairy (Grazing), 2002

	Avg. Of All Farms
Number of farms	9
Net cash farm income	40,038
Crops and Feed Ending inventory Beginning inventory Inventory change	56,196 57,312 -1,116
Market Livestock Ending inventory Beginning inventory Inventory change	6,840 5,859 981
Accts Receivable & Other Current Asse Ending inventory Beginning inventory Inventory change	15,628 15,338 290
Prepaid Expenses and Supplies Ending inventory Beginning inventory Inventory change	3,207 4,519 -1,312
Accounts Payable & Accrued Expenses Beginning inventory Ending inventory Inventory change	10,543 11,152 -610
Total inventory change	-1,766
Net operating profit	38,271

#### Depreciation and Other Capital Adjustments Michigan Dairy (Grazing), 2002 Table 9 (Farms Sorted By Rate of Return on Assets - Cost)

	Avg. Of All Farms
Number of farms	9
Net operating profit	38,271
Breeding Livestock Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust.	201,044 1,520 195,147 541 6,876
Machinery and Equipment Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust.	56,977 - 56,461 13,193 -12,677
Buildings and Improvements Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust.	33,658 - 32,529 5,906 -4,777
Other Capital Assets Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adjust.	26,657 1,108 20,467 18,046 -10,749
Total depreciation, capital adj.	-21,326
Net farm income	16,945

### Profitability Measures Michigan Dairy (Grazing), 2002

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

	Avg. Of All Farms	
Number of farms	9	
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	16,945 -2,181 -2.8 % -9.3 % -7.3 % 38.8 %	
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	19,126 13,694 46,512 -15,873 560,635 -29,566 318,772 217,369	
	Avg. Of All Farms	
Number of farms	9	
Profitability (assets valued at mark	et)	
Net farm income Labor and management earnings Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	67,534 21,461 3.4 % 2.7 % 16.0 % 21.5 %	
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	46,073 13,694 46,512 34,716 1,009,740 21,022 767,876	

Value of farm production

217,369

### Table 11 Liquidity M

### Liquidity Measures Michigan Dairy (Grazing), 2002

	Avg. Of All Farms	
Number of farms	9	
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	40,038 8,395 33,248 5,860 9,325 89,653	
Years to turnover interm. debt Expense as a % of income Interest as a % of income	9.6 86 % 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	277,457 239,186 38,271 8,395 33,248 5,860 7,558 89,653	
Years to turnover interm. debt Expense as a % of income Interest as a % of income	11.9 86 % 5 %	

### Table 12 Balance Sheet at Cost Values Michigan Dairy (Grazing), 2002

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

Avg. Of All Farms

9

Number of farms

Aggota	Beginning	Ending
Assets Current Farm Assets		
Cash and checking balance	8,232	4,723
Prepaid expenses & supplies Growing crops	4,519 10,598	3,207 11,048
Accounts receivable	4,740	4,525
Hedging accounts	0	0
Crops held for sale or feed	57,312	56,196
Crops under government loan	0	0
Market livestock held for sale	5,859	
Other current assets Total current farm assets	0 91,260	55 86,594
Total Current Tarm assets	91,200	00,394
Intermediate Farm Assets		
Breeding livestock	195,147	201,044
Machinery and equipment Titled vehicles	56,461 0	56,977 0
Other intermediate assets	7,129	7,661
Total intermediate farm assets	258,737	265,683
	•	
Long Term Farm Assets	160 657	157 000
Farm land Buildings and improvements	162,657 32,529	157,820 33,658
Other long-term assets	13,338	18,996
Total long-term farm assets	208,524	210,473
Total Farm Assets	558,521	562,749
Total Nonfarm Assets	26,845	42,079
Total Assets	585,366	604,828
Liabilities		
Current Farm Liabilities		
Accrued interest	1,528	1,643
Accounts payable	9,015	9,509
Current notes Government crop loans	11,620 0	15,392 0
Principal due on term debt	22,203	
Total current farm liabilities	44,367	
Total intermediate farm liabs	74,160	73,055
Total long term farm liabilities	122,857	122,060
Total farm liabilities	241,384	242,344
Total nonfarm liabilities	1,556	1,441
Total liabilities	242,939	243,784
Net worth (farm and nonfarm)	342,427	361,044
Net worth change	,	18,617
Ratio Analysis		
Current farm liabilities / assets	49 %	55 %
Curr. & interm farm liab. / assets	34 %	34 %
Long term farm liab. / assets	59 %	58 %
Total debt to asset ratio	42 %	40 %

### Table 13 Balance Sheet at Market Values Michigan Dairy (Grazing), 2002

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

 $\label{eq:Avg.Of} \text{Avg. Of} \\ \text{All Farms}$ 

Number of farms	9	9
	Beginning	Ending
Assets	- 5 5	
Current Farm Assets		
Cash and checking balance	8,232	4,723
Prepaid expenses & supplies	4,519	3,207
Growing crops	10,598	11,048
Accounts receivable	4,740	4,525
Hedging accounts	0	0
Crops held for sale or feed	57,312	56,196
Crops under government loan	0	
Market livestock held for sale	5,859	6,840
Other current assets	0	
Total current farm assets	91,260	
Intermediate Farm Assets	405 445	
Breeding livestock	195,147	
Machinery and equipment	154,849	
Titled vehicles	0	
Other intermediate assets	8,187	
Total intermediate farm assets	358,183	362,813
Long Term Farm Assets		
Farm land	438,370	475,776
Buildings and improvements	73,278	75,261
Other long-term assets		
Total long-term farm assets	532.888	36,703 587,740
Total Farm Assets		1,037,148
	,	, ,
Total Nonfarm Assets		72,812
Total Assets	1,038,173	1,109,960
Liabilities		
Current Farm Liabilities		
Accrued interest	1,528	1,643
Accounts payable	9,015	
Current notes	11,620	
Government crop loans	0	
Principal due on term debt	22,203	
Total current farm liabilities		47,228
Total intermediate farm liabs		73,055
Total long term farm liabilities	122,857	
Total farm liabilities	241,384	242,344
Total nonfarm liabilities	1,556	1,441
Total liabs excluding deferreds	242,939	
Total deferred liabilities	0	
Total liabilities	242,939	
Retained earnings	342,427	
Market valuation equity	452,807	
Net worth (farm and nonfarm)	795,234	
Net worth excluding deferreds	795,234	
Net worth change		70,942
Ratio Analysis		
Current farm liabilities / assets	49 %	55 %
Curr. & interm farm liab. / assets	26 %	
Long term farm liab. / assets	23 %	
Total debt to asset ratio	23 %	
Debt to assets excl deferreds	23 %	
	25 0	22 0

### Statement Of Cash Flows Michigan Dairy (Grazing), 2002

	Avg. Of All Farms
Number of farms	8
Beginning cash (farm & nonfarm)	8,517
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	217,035 9,176 -181,603 -33,147 -2,934 8,527
Cash From Investing Activities Sale of breeding livestock Sale of machinery & equipment Sale of titled vehicles Sale of farm land	1,711 - - 25,133
Sale of farm buildings Sale of other farm assets Sale of nonfarm assets Purchase of breeding livestock	- 172 - -609
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	-14,305 - -6,644 -18,023 -17,031 -29,596
Cash From Financing Activities Money borrowed Cash gifts and inheritances Principal payments Dividends paid Gifts given Cash from financing activities	67,511 11,401 -60,027 - -1,750 17,135
Net change in cash balance	-3,934
Ending cash (farm & nonfarm)	4,582

### Financial Standards Measures Michigan Dairy (Grazing), 2002

	Avg. Of All Farms
Number of farms	9
Liquidity Current ratio Working capital	1.83 39,366
Solvency (market) Farm debt to asset ratio Farm equity to asset ratio Farm debt to equity ratio	23 % 77 % 30 %
Profitability (cost) Rate of return on farm assets Rate of return on farm equity Operating profit margin Net farm income	-2.8 % -9.3 % -7.3 % 16,945
Repayment Capacity Term debt coverage ratio Capital replacement margin	75 % -9,922
Efficiency Asset turnover rate (cost) Operating expense ratio Depreciation expense ratio Interest expense ratio Net farm income ratio	38.8 % 81.3 % 7.7 % 4.9 % 6.1 %

### Table 16 Operator and Labor Information Michigan Dairy (Grazing), 2002

	Avg. Of All Farms
Number of farms	9
Operator Information Average number of operators Average age of operators Average number of years farming	1.3 55.4 29.0
Results Per Operator Working capital Total assets (market) Total liabilities Net worth (market) Net worth excl deferred liabs	29,524 832,470 182,838 649,632 649,632
Gross farm income Total farm expense Net farm income	208,093 195,384 12,709
Net nonfarm income Family living & tax withdrawals	6,296 24,936
Total acres owned Total crop acres Crop acres owned Crop acres cash rented Crop acres share rented Total pasture acres	300.0 348.2 201.3 146.9
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	9 4,343 4,048 8,392 3,258 25.90 3.90

### Financial Summary Michigan Dairy (Grazing), 2002

	Avg. Of All Farms
Number of farms	9
Income Statement Gross cash farm income Total cash farm expense Net cash farm income Inventory change Depreciation and capital adjust Net farm income	277,302 237,264 40,038 -1,766 -21,326 16,945
Profitability (cost) Labor and management earnings Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	-2,181 -2.8 % -9.3 % -7.3 % 38.8 %
Profitability (market) Labor and management earnings Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	21,461 3.4 % 2.7 % 16.0 % 21.5 %
Liquidity Term debt coverage ratio Expense as a percent of income Interest as a percent of income	74.8 % 86.2 % 4.9 %
Solvency (cost) Number of farms Ending farm assets Ending farm liabilities Ending total assets Ending total liabilities Ending net worth Net worth change Ending farm debt to asset ratio Beg total debt to asset ratio End total debt to asset ratio	9 562,749 242,344 604,828 243,784 361,044 18,617 43 % 42 % 40 %
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	9 1,037,148 242,344 1,109,960 243,784 866,176 70,942 23 % 23 % 22 %
Nonfarm Information Net nonfarm income	8,395
Crop Acres Total acres owned Total crop acres Total crop acres owned Total crop acres cash rented Total crop acres share rented	400 464 268 196