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2000 BUSINESS ANALYSIS SUMMARY FOR SWINE FARMS

Michigan Data from Telfarm/MicroTel Staff Paper No. 2001-32, 28 pages

by

Sherrill B. Nott¹

Introduction

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II. List and sequence of Tables

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Data Source

B.

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

This report is a summary of the financial and production records kept by swine farmers enrolled in the Telfarm/MicroTel record program through Michigan State University Extension. Farm records were included if a Finan² summary was completed on 2000 data including

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¹Professor and Farm Management Specialist; phone 517-353-4522 or nott@msu.edu Co-workers in the Telfarm/MicroTel project were R. Betz, L. Borton, R. Clark, B. Dartt, S. Harsh, M. Kelsey, G. Kole, T. Purdy, W. Schauer, G. Schwab, D. Stein, V. Varner, and C. Wolf with the assistance of Michigan State University Extension Agents.

²Finan = financial analysis, one of the parts of Finpack, a financial software package from the Center for Farm Financial Management at the University of Minnesota.

beginning and ending balance sheets, plus income and expenses. The summary was included if cash discrepancy was less than 10% of gross cash inflow, and if the debt discrepancy was less than \$1,000. The averages are reported in the tables below; it should be recognized that considerable variability exist in the data. Ten of the 14 farms grew crops in addition to hogs. The unweighted mean of acres cropped was 1,058 acres; the standard deviation of the mean was 585 acres and the median was 1,121 acres. The unweighted mean of the net farm income for all 14 farms was \$88,624. The standard deviation of the mean was \$99,344 and the median was \$73,823 of net farm income.

This report has three purposes: 1) to provide statistical information about the financial results on swine farms during 2000; 2) to provide production costs for comparative analysis and forward planning; and 3) to provide information on the trends in resource use, income and costs during the last few years. For swine farm averages in 1995, see Staff Paper 96-86, <u>Michigan Farm Database</u>, <u>New Directions for 1995</u>; it contains averages of 19 swine farms calculated with Finansum. Staff Paper 97-30, <u>Business Analysis Summary for Swine Farms</u>, contains averages of 17 swine farms for 1996. Staff Paper 98-23, <u>1997 Business Analysis Summary for Swine Farms</u>, contains averages of 20 swine farms for 1997. Staff Paper 99-34, <u>1998 Business Analysis Summary for Swine Farms</u>, contains averages of 14 swine farms for 1998. Staff Paper 2000-28, <u>1999 Business Analysis Summary for Swine Farms</u>, contains averages of 9 swine farms for 1999. These staff papers are available from the author at http://www.msu.edu/user/nott

Those farms indicating they were farrow to finish operations were included in the first set of tables. The 14 farms in Tables 13 to 25 included the 9 farrow to finish farms plus 5 that were primarily in other types of hog enterprises. The farm was accepted in the average regardless of whether it was a proprietorship, partnership, limited liability company, or corporation. RankEm³ will produce a variety of report options; a subset is included in this publication.

The farms included in the averages below are not a random sample. Most of them kept their financial records with Michigan State University's Telfarm/MicroTel accounting project. The averages may be representative of bigger and better managed swine farms. The 14 farms were spread across the 12 counties of Allegan, Benzie, Berrien, Branch, Calhoun, Eaton, Hillsdale, Huron, Ingham, Kalamazoo, St. Joseph, and Van Buren.

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³ Rankem calculates statistical summaries from Finan data. It is provided by the Center for Farm Financial Management.

CROP PRODUCTION SUMMARIES, 2000 Farrow to Finish Swine Farms in Michigan

	Average Of All Farms
Number of Farms	9
ACREAGE SUMMARY	
Total Acres Owned	396
Total Crop Acres	778
Crop Acres Owned	291
Crop Acres Cash Rented	445
Crop Acres Share Rented	42

FARM INCOME STATEMENT, 2000 Farrow to Finish Swine Farms in Michigan

	Average Of All Farms
Number of Farms	9
CASH FARM INCOME Corn Mixed Hay Soybeans Straw Winter Wheat Other crops Government payments Beef Cow-Calf, Beef Calves Beef, Finish Beef Calves Hogs, Farrow-Fin, Raised Hogs	21,588 67 34,422 112 3,292 4,377 46,626 3,801 105,667 461,950
Hogs, Feeder Pigs Hogs, Finish Feeder Pigs Hogs, Weaning Pigs Other farm income Gross Cash Farm Income	1,869 22,600 93,726 52,125 853,681

Table 2

FARM INCOME STATEMENT, 2000 (Continued) Farrow to Finish Swine Farms in Michigan

	Average Of All Farms
Number of Farms	9
CASH FARM EXPENSE	
Seed	22,968
Fertilizer	18,490
Crop chemicals	22,532
Crop insurance	1,880
Drying fuel	5,357
Crop marketing	809
Crop miscellaneous	656
Feeder livestock purchase	80,486
Purchased feed	240,774
Breeding fees	11,093
Veterinary	17,636
Livestock supplies	3,413
Livestock leases	406
Livestock marketing	4,485
Interest	73,881
Fuel & oil	12,727
Repairs	25,813
Custom hire	37,027
Hired labor	75,176
Land rent	28,920
Machinery & bldg leases	7,387
Real estate taxes	13,571
Farm insurance	8,775
Utilities	26,104
Dues & professional fees	5,180
Miscellaneous	19,421
Total cash expense	764,966
Net cash farm income	88,715
INVENTORY CHANGES	
Crops and feed	36,533
Market livestock	22,215
Accounts receivable	392
Prepaid expenses and supplies	16,090
Accounts payable	22,655
Total inventory change	97,885
Net operating profit	186,600
Net operating profit	100,000
DEPRECIATION AND OTHER CAPITAL ADJUST	MENTS
Breeding livestock	-15,355
Machinery and equipment	-32,350
Buildings and improvements	-28,745
Other farm capital	514
Total depr. and other capital adj	-75,935
Net farm income	\$110 , 665

INVENTORY CHANGES, 2000 Farrow to Finish Swine Farms in Michigan

	Average Of All Farms
Number of Farms	9
Net cash farm income	88,715
CROPS AND FEED Ending inventory Beginning inventory Inventory change	150,889 114,356 36,533
MARKET LIVESTOCK Ending inventory Beginning inventory Inventory change	196,263 174,048 22,215
ACCTS RECEIVABLE & OTHER CURRENT Ending inventory Beginning inventory Inventory change	ASSETS 4,085 3,692 392
PREPAID EXPENSES AND SUPPLIES Ending inventory Beginning inventory Inventory change	28,261 12,170 16,090
ACCOUNTS PAYABLE Beginning inventory Ending inventory Inventory change	29,328 6,673 22,655
Total inventory change	97,885
Net operating profit	186,600

DEPRECIATION AND OTHER CAPITAL ADJUSTMENTS, 2000 Farrow to Finish Swine Farms in Michigan

	Average Of All Farms
Number of Farms	9
Net operating profit	186,600
BREEDING LIVESTOCK Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adj.	103,509 2,144 113,557 7,451 -15,355
MACHINERY AND EQUIPMENT Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adj.	120,933 7,128 124,640 35,770 -32,350
BUILDINGS AND IMPROVEMENTS Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adj.	201,724 _ 219,272 _11,197 _28,745
OTHER CAPITAL ASSETS Ending inventory Capital sales Beginning inventory Capital purchases Depreciation, capital adj.	16,025 20,818 22,348 13,980 514
Total depreciation, capital adj.	-75,935
Net farm income	110,665

PROFITABILITY AND LIQUIDITY MEASURES, 2000 Farrow to Finish Swine Farms in Michigan

Number of Farms PROFITABILITY Net farm income Labor & mgmt earnings Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	Average Of All Farms 9 Cost 110,665 91,837 11.7 % 19.5 % 20.9 % 55.8 %	Average Of All Farms 9 Market 122,294 72,737 8.3 % 8.5 % 22.9 % 36.3 %
Interest on farm net worth Farm interest expense Value of operator lbr & mgmt. Return on farm assets Average farm assets Return on farm equity Average farm equity Value of farm production	18,828 61,893 52,006 120,552 1,032,844 58,658 300,703 576,206	49,557 61,893 52,006 132,181 1,587,817 70,288 825,955 576,206 Average Of All Farms
Number of Farms		9
LIQUIDITY (Cash) Net cash farm income Net nonfarm income Family living and taxes Real estate principal p Cash available for inte Average intermediate de	erm. debt	88,715 4,002 30,311 23,909 38,497 171,402
Years to turnover inter Expense as a % of incom Interest as a % of inco	ie	4.5 90 % 9 %
LIQUIDITY (Accrual) Total accrual farm inco Total accrual farm expe Net accrual operating i Net nonfarm income Family living and taxes Real estate principal p Available for intermedi Average intermediate de	ense .ncome s ayments .ate debt ebt	912,821 726,221 186,600 4,002 30,311 23,909 136,382 171,402
Years to turnover inter Expense as a % of incom Interest as a % of inco	ie	1.3 80 % 7 %

BALANCE SHEET AT COST VALUES, 2000 Farrow to Finish Swine Farms in Michigan

		ge Of Farms
Number of Farms		9
	Beginning	Ending
ASSETS 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 Market livestock held for sale Other current assets Total current farm assets Intermediate Farm Assets Breeding livestock Machinery and equipment Other intermediate assets Total intermediate farm assets	17,901 12,170 2,994 34 394 114,356 - 174,048 321 322,168 113,557 124,640 17,993 256,191	21,199 28,261 2,280 1,131 293 149,323 1,566 196,263 381 400,696 103,509 120,933 12,082 236,524
Long-Term Farm Assets Farm land Buildings and improvements Other long-term assets Total long-term farm assets Total Farm Assets	221,313 219,272 4,355 444,939 1,023,298	199,504 201,724 3,943 405,170 1,042,390
Total Nonfarm Assets Total Assets	65,673 1,088,971	
LIABILITIES Current Farm Liabilities Accrued interest Accounts payable Current notes Government crop loans Principal due on term debt Total current farm liabilities Intermediate Farm Liabilities Long-term Farm Liabilities Total Farm Liabilities	15,020 14,308 125,618 - 65,415 220,362 165,511 400,769 786,642	207,232 103,996 366,412
Total Nonfarm Liabilities Total Liabilities	3,560 790,202	2,807 680,446
Net Worth (farm and nonfarm) Net Worth Change		429,397 30,629
RATIO ANALYSIS Current Farm Liabilities / Assets Curr. & Interm Farm Liab / Assets Long Term Farm Liab. / Assets Total Liabilities / Assets		49 %

BALANCE SHEET AT MARKET VALUES, 2000 Farrow to Finish Swine Farms in Michigan

		erage Of 1 Farms
Number of Farms		9
ASSETS	Beginning	Ending
Current Farm Assets		
Cash and checking balance	17,901	21,199
Prepaid expenses & supplies	12,170	28,261
Growing crops	2,944	2,280
Accounts receivable	34	1,131
Hedging accounts	394	293
Crops held for sale or feed	114,356	149,323
Crops under government loan	_	1,566
Market livestock held for sale	174,048	196,263
Other current assets	321	381
Total current farm assets	322,168	400,696
Intermediate Farm Assets	- ,	,
Breeding livestock	115,425	106,154
Machinery and equipment	292,910	299,634
Other intermediate assets	17,993	12,082
Total intermediate farm assets	426,329	417,871
Long-Term Farm Assets		, -
Farm land	464,625	449,370
Buildings and improvements	349,166	337,112
Other long-term assets	4,355	3,943
Total long-term farm assets	818,145	790,425
Total Farm Assets	1,566,642	1,608,992
Total Nonfarm Assets	80,587	91,564
Total Assets	1,647,228	1,700,556
LIABILITIES		
Current Farm Liabilities		
Accrued interest	15,020	3,032
Accounts payable	14,308	3,642
Current notes	125,618	137,019
Government crop loans	-	1,566
Principal due on term debt	65,415	61,974
Total current farm liabilities	220,362	207,232
Intermediate Farm Liabilities	165,511	103,996
Long-term Farm Liabilities	400,769	366,412
Total Farm Liabilities	786,642	677,640
Total Nonfarm Liabilities	3,560	2,807
Total liabs excluding deferreds	790,202	
Total deferred liabilities	28,444	
Total liabilities	818,646	•
10001 11001110100	010,010	, 19, 122
Retained earnings	298,769	429,397
Market valuation equity	529,813	
Net worth (farm and nonfarm)		981,134
Net worth excluding deferreds		1,020,110
Net worth change		2,552
Ratio Analysis		
Current farm liabilities / assets		52 %
Curr. & interm farm liab. / asset		
Long term farm liab. / assets	49 % 50 %	46 % 42 %
Total debt to asset ratio Debt to assets excl deferreds	50 % 48 %	42 % 40 %
Debt to assets excl deletteds	40 0	40 0

STATEMENT OF CASH FLOWS, 2000 Farrow to Finish Swine Farms in Michigan

	Average Of All Farms
Number of Farms	9
(a) Beginning cash balance (farm & nonfarm)	17,901
Apparent family living expense (-) Income and social security tax (-)	853,681 4,002 -764,966 -29,250 -1,061 62,407
CASH FROM INVESTING ACTIVITIES Sale of breeding livestock Sale of machinery & equipment (+) Sale of farm land (+) Sale of farm buildings (+) Sale of other farm assets (+) Sale of nonfarm assets (+) Purchase of breeding livestock (-) Purchase of machinery & equip. (-) Purchase of farm land (-) Purchase of farm buildings (-) Purchase of other farm assets (-) Purchase of nonfarm assets (-) Co Cash from investing activities (=)	63,710 20,818 -7,451 -35,770 -11,197 -13,980 -12,157
	302,679 14,444 -389,476 _ _ _72,353
(e) Net change in cash balance (b+c+d) Ending cash balance (farm & nonfarm)	3,298 21,199

FINANCIAL STANDARDS MEASURES, 2000 Farrow to Finish Swine Farms in Michigan

	Average Of All Farms
Number of Farms	9
LIQUIDITY Current ratio Working capital	1.93 193,464
SOLVENCY (Market) Farm debt to asset ratio Farm equity to asset ratio Farm debt to equity ratio	44 % 56 % 80 %
PROFITABILITY (cost) Rate of return on farm assets Rate of return on farm equity Operating profit margin Net farm income	11.7 % 19.5 % 20.9 % 110,665
REPAYMENT CAPACITY Term debt coverage ratio Capital replacement margin	187 % 94,443
EFFICIENCY Asset turnover rate(cost) Operating expense ratio Depreciation expense ratio Interest expense ratio Net farm income ratio	55.8 % 72.8 % 8.3 % 6.8 % 12.1 %

FINANCIAL SUMMARY, 2000 Farrow to Finish Swine Farms in Michigan

	Average 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 adj Net farm income	853,681 764,966 88,715 97,885 -75,935 110,665
Profitability (cost) Labor and management earnings Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	91,837 11.7 % 19.5 % 20.9 % 55.8 %
Profitability (market) Labor and management earnings Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	72,737 8.3 % 8.5 % 22.9 % 36.3 %
Liquidity Term debt coverage ratio Expense as a percent of income Interest as a percent of income	186.6 % 79.6 % 6.8 %
Solvency (cost) Number of farms Ending farm assets Ending farm liabilities Ending total assets Ending total liabilities Ending net worth Net worth change Ending farm debt to asset ratio Beg total debt to asset ratio	9 1,042,390 677,640 1,109,844 680,446 429,397 130,629 65 % 73 % 61 %
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	9 1,608,992 713,175 1,700,556 719,422 981,134 152,552 44 % 50 % 42 %
Nonfarm Information Net nonfarm income	4,002

OPERATOR AND LABOR SUMMARY, 2000 Farrow to Finish Swine Farms in Michigan

	Average Of All Farms
Number of Farms	9
OPERATOR INFORMATION Average number of operators Average age of operators Average number of years farming	1.8 54.9 32.2
Results Per Operator Working capital Total assets (market) Total liabilities Net worth (market) Net worth excl deferred liabs	108,824 956,563 426,599 529,964 551,888
Gross farm income Total farm expense Net farm income	513,462 451,213 62,249
Net nonfarm income Family living withdrawals	2,251 17,050
Total acres owned Total crop acres Crop acres owned Crop acres cash rented Crop acres share rented	222.9 437.5 163.9 250.1 23.5
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 3,808 6,044 9,852 2,142 58.49 29.06

CROP PRODUCTION SUMMARIES, 2000 Swine Farms in Michigan (Farms Sorted By Net Farm Income)

	Average Of All Farms	Average Of Low 50 %	Average Of High 50 %
Number of Farms	14	7	7
Acreage Summary Total acres owned Total crop acres Crop acres owned Crop acres cash rented Crop acres share rented	358 756 216 509 31	131 410 72 330 7	586 1,102 361 688 54
Average Price Received (Cash S Wheat, Winter per bushel, \$ Soybeans per bushel, \$	ales Only) 1.84 4.83	- -	- -

FARM INCOME STATEMENT, 2000 Swine Farms in Michigan (Farms Sorted By Net Farm Income)

	Average Of All Farms	Average Of Low 50 %	Average Of High 50 %
Number of Farms	14	7	7
Cash Farm Income			
Corn	20,625	13,493	27,756
Corn, Seed	1,796	3,593	_
Soybeans	29,654	6,922	52,385
Straw	379	_	759
Sugar Beets	13,006	26,011	_
Timber	938	_	1,876
Wheat, Winter	5,100	4,969	5,231
Beans, Dry	2,243	4,485	_
Other crops	2,814	_	5,628
Miscellaneous crop income	43	-	86
Beef Cow-Calf, Beef Calves	2,444	-	4,887
Beef, Finish Beef Calves	67,929	-	135,857
Hogs, Farrow-Fin, Raised Hogs	296,968	151,009	442,927
Hogs, Feeder Pigs	1,450	1,430	1,470
Hogs, Finish Feeder Pigs	202,933	193,489	212,377
Sheep, Market Lambs	1,481	2,961	_
Hogs, Weaning Pigs	60,252	-	120,505
Hogs, Weaning to Finish	41,828	83,656	_
Cull breeding livestock	24,095	3,471	44,719
Misc. livestock income	373	48	697
Transition payments	4,236	8,472	-
Other government payments	38,377	10,395	66,359
Custom work income	3,953	6,293	1,614
Insurance income	89	177	-
Cash from hedging accounts	2,456	-1,013	5,924
Other farm income	5,663	5,689	5,638
Gross Cash Farm Income	831,124	525,552	1,136,695

FARM INCOME STATEMENT, 2000 (Continued)

Swine Farms in Michigan (Farms Sorted By Net Farm Income)

(Farms Sorte	d By Net Farm Inc		
	Average Of	_	Average Of
	All Farms	Low 50 %	High 50 %
Number of Farms	14	7	7
Cash Farm Expense			
Seed	23,260	10,272	36,249
Fertilizer	20,513	12,100	28,925
Crop chemicals	21,969	11,429	32,509
Crop insurance	1,208	9	2,408
Drying fuel	4,584	499	8,670
Crop marketing	520	-	1,040
Crop miscellaneous	457	22	891
Feeder livestock purchase	129,995	95,446	164,544
Purchased feed	225,925	158,523	293,327
Breeding fees	7,131	1,098	13,165
Veterinary	13,547	7,087	20,007
Livestock supplies	2,355	1,394	3,316
Livestock leases	1,702	2,882	522
Livestock marketing	3,918	1,659	6,178
Interest	64,849	39,468	90,230
Fuel & oil	12,585	8,893	16,277
Repairs	23,903	16,532	31,273
Custom hire	29,199	7,670	50,729
Hired labor	54,281	25,069	83,492
Land rent	37,760	24,253	51,266
Machinery & bldg leases	12,415	640	24,191
Real estate taxes	9,697	3,676	15,718
Farm insurance	8,379	6,155	10,603
Utilities	23,090	15,632	30,548
Dues & professional fees	3,861	1,390	6,332
Hedging account deposits	2,395	3,790	1,000
Miscellaneous	22,689	27,380	17,997
Total cash expense	762,186	482,965	1,041,408
Net cash farm income	68,937	42,588	95,287
Net cabit faim filcome	00,007	12,500	557207
Inventory Changes			
Crops and feed	30,042	2,521	57,563
Market livestock	32,086	19,401	44,771
Accounts receivable	1,955	3,121	789
Prepaid expenses and supplies	•	3,609	36,017
Accounts payable	5,212	-14,236	24,659
Total inventory change	89,107	14,416	163,798
Net operating profit	158,044	57,004	259,085
Net operating profit	130,011	57,004	239,003
Depreciation and Other Capital A	Adjustments		
Breeding livestock	-9,871	-4,745	-14,997
Machinery and equipment	-31,620	-20,968	-42,272
Buildings and improvements	-25,312	-18,037	-32,588
Other farm capital	-2,617	-1,075	-4,160
Total depr & other capital adj		-44,824	-94,017
iccut dept a conct capitat adj	V / 141) I, UI /
Net farm income	88,624	12,180	165,068

INVENTORY CHANGES, 2000 Swine Farms in Michigan (Farms Sorted By Net Farm Income)

Average Of Average Of Average Of All Farms Low 50 % High 50 % Number of Farms 7 7 14 Net cash farm income 68,937 42,588 95,287 Crops and Feed Ending inventory 61,880 221,303 141,591 Beginning inventory 111,549 59,358 163,740 Inventory change 30,042 2,521 57,563 Market Livestock Ending inventory 204,150 125,997 282,302 106,596 237,531 Beginning inventory 172,064 Inventory change 32,086 19,401 44,771 Accts Receivable & Other Current Assets Ending inventory 6,977 4,439 9,515 Beginning inventory 1,319 8,726 5,023 Inventory change 1,955 3,121 789 Prepaid Expenses and Supplies Ending inventory 30,026 9,025 51,027 Beginning inventory 10,213 5,416 15,010 Inventory change 19,813 3,609 36,017 Accounts Payable & Accrued Expenses Beginning inventory 25,636 17,619 33,652 Ending inventory 20,424 31,855 8,993 Inventory change 5,212 -14,236 24,659 Total inventory change 89,107 14,416 163,798 Net operating profit 158,044 57,004 259,085

DEPRECIATION AND OTHER CAPITAL ADJUSTMENTS, 2000 Swine Farms in Michigan

	Average Of All Farms	Average Of Low 50 %	Average Of High 50 %
Number of Farms	14	7	7
Net operating profit	158,044	57,004	259,085
Breeding Livestock			
Ending inventory	67,622	21,664	113,579
Capital sales	1,379	2,324	433
Beginning inventory	74,081	22,890	125,272
Capital purchases	4,790	5,843	3,737
Depreciation, capital adjust.	-9,871	-4,745	-14,997
Machinery and Equipment			
Ending inventory	109,916	70,827	149,004
Capital sales	4,607	3,160	6,054
Beginning inventory	112,389	74,982	149,795
Capital purchases	33,754	19,973	47,536
Depreciation, capital adjust.	-31,620	-20,968	-42,272
Buildings and Improvements			
Ending inventory Capital sales	164,219	95,588	232,850
Beginning inventory	182,065	110,976	253,154
Capital purchases	7,466	2,649	12,283
Depreciation, capital adjust.		-18,037	-32,588
Other Capital Assets			
Ending inventory	29,350	7,071	51,630
Capital sales	14,112	2,142	26,082
Beginning inventory	36,132	8,361	63,902
Capital purchases	9,948	1,927	17,970
Depreciation, capital adjust.		-1,075	-4,160
Total depreciation, capital adj	69,421	-44,824	-94,017
Net farm income	88,624	12,180	165,068

PROFITABILITY MEASURES, 2000 Swine Farms in Michigan (Farms Sorted By Net Farm Income)

	Average Of	Average Of	Average Of
	All Farms	Low 50 %	High 50 %
Number of Farms	14	7	7
Profitability (assets valued at o Net farm income Labor and management earnings Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	cost) 88,624 73,285 10.2 % 17.5 % 18.2 % 56.0 %	12,180 5,989 3.4 % -44.2 % 6.1 % 55.8 %	165,068 140,581 12.8 % 25.1 % 22.7 % 56.1 %
Interest on farm net worth	15,339	6,191	24,487
Farm interest expense	56,754	39,715	73,793
Value of operator lbr & mgmt	49,276	34,162	64,389
Return on farm assets	96,102	17,733	174,472
Average farm assets	945,093	522,866	1,367,321
Return on farm equity	39,348	-21,983	100,679
Average farm equity	225,272	49,706	400,838
Value of farm production	529,415	291,882	766,949
Profitability (assets valued at r Net farm income Labor and management earnings Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	narket) 108,352 65,671 8.0 % 8.3 % 21.9 % 36.5 %	39,692 19,374 5.6 % 1.6 % 15.5 % 36.0 %	177,012 111,968 8.9 % 10.4 % 24.3 % 36.7 %
Interest on farm net worth	42,681	20,318	65,043
Farm interest expense	56,754	39,715	73,793
Value of operator lbr and mgmt.	. 49,276	34,162	64,389
Return on farm assets	115,831	45,245	186,416
Average farm assets	1,450,274	811,796	2,088,752
Return on farm equity	59,076	5,530	112,623
Average farm equity	711,347	338,637	1,084,056
Value of farm production	529,415	291,882	766,949

LIQUIDITY MEASURES, 2000 Swine Farms in Michigan (Farms Sorted By Net Farm Income)

	Avg. Of All Farms	Low 50%	High 50%
Number of farms	14	7	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	68,937 4,594 26,628 19,241 27,662 209,934	42,588 8,771 15,088 11,096 25,174 173,308	95,287 417 38,168 27,386 30,149 246,560
Years to turnover interm. debt Expense as a % of income Interest as a % of income	7.6 92 % 8 %	6.9 92 % 8 %	8.2 92 % 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	895,206 737,162 158,044 4,594 26,628 19,241 116,769 209,934	550,595 493,592 57,004 8,771 15,088 11,096 39,590 173,308	1,239,817 980,732 259,085 417 38,168 27,386 193,948 246,560
Years to turnover interm. debt Expense as a % of income Interest as a % of income	1.8 82 % 6 %	4.4 90 % 7 %	1.3 79 % 6 %

BALANCE SHEET AT COST VALUES, 2000 Swine Farms in Michigan (Farms Sorted By Net Farm Income)

		g. Of Farms	Low	50%	Hig	h 50%
Number of farms	:	14		7		7
Assets	Beginning	Ending	Beginning	Ending	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 Market livestock held for sale Other current assets	21,092 10,213 2,869 1,430 518 111,549 0 172,064 206	30,026 2,336 3,750 646 140,585 1,006 204,150	5,416 1,314 5 59,358 0 106,596	15,483 9,025 1,311 3,068 60 61,880 0 125,997 0	15,010 4,425 2,859 1,030 163,740 0 237,531	51,027 3,360 4,433 1,232 219,290 2,013 282,302
Total current farm assets	319,941	403,448	194,634	216,824	445,248	590,072
Intermediate Farm Assets Breeding livestock Machinery and equipment Other intermediate assets Total intermediate farm assets	74,081 112,389 31,097 217,567	25,600	5,503	21,664 70,827 4,284 96,775	149,795 56,691	46,917
Long Term Farm Assets Farm land Buildings and improvements Other long-term assets Total long-term farm assets Total Farm Assets	202,522 182,065 5,035 389,622 927,130	164,219 3,750 356,471	2,857 224,790	95,588 2,788 209,332	253,154 7,212	232,850 4,713 503,610
Total Nonfarm Assets Total Assets	59,802 986,932	58,552 1,021,609	9,452 532,251		110,153 1,441,612	
Liabilities Current Farm Liabilities Accrued interest Accounts payable Current notes Government crop loans Principal due on term debt Total current farm liabilities	14,797 10,839 160,810 0 55,419 241,865	13,721 178,902 1,006 53,830	135,567 0 30,010	,	11,201 186,052 0 80,828	2,979 232,871 2,013 77,773
Total intermediate farm liabs Total long term farm liabilities Total farm liabilities	198,266 309,085 749,215	155,369 280,895 690,427	162,334 130,489 476,020	148,188 135,437 470,299		162,551 426,354 910,555
Total nonfarm liabilities Total liabilities		2,947 693,374	0 476,020		5,292 1,027,702	
Net worth (farm and nonfarm) Net worth change		328,235 3,164		68,673 2,442	413,910 17	587,796 3,887
Ratio Analysis Current farm liabilities / assets Curr. & interm farm liab. / assets Long term farm liab. / assets Total debt to asset ratio	76 % 82 % 79 % 76 %	68 % 79 %	116 % 58 %	107 % 65 %	69 % 88 %	54 % 85 %

BALANCE SHEET AT MARKET VALUES, 2000 Swine Farms in Michigan

		. Of Farms	Low	50%	Higl	n 50%
Number of farms	1	4		7		7
Assets	Beginning	Ending	Beginning	Ending	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 Market livestock held for sale Other current assets Total current farm assets	21,09210,2132,8691,430518111,5490172,064206319,941	20,704 30,026 2,336 3,750 646 140,585 1,006 204,150 245 403,448	5,416 1,314 5 59,358 0 106,596 0	15,483 9,025 1,311 3,068 60 61,880 0 125,997 0 216,824	15,0104,4252,8591,030163,7400237,531412	1,232 219,290 2,013 282,302 490
Intermediate Farm Assets Breeding livestock Machinery and equipment Other intermediate assets Total intermediate farm assets	75,282 281,595 31,097 387,974	69,381 291,515 25,600 386,496	5,503	4,284	398,859 56,691	46,917
Long Term Farm Assets Farm land Buildings and improvements Other long-term assets Total long-term farm assets Total Farm Assets	413,416 292,344 5,035 710,794 1,418,709	281,736 3,750 691,896	163,321 2,857 408,207	243,871 160,499 2,788 407,158 825,619	421,366	402,974 4,713 976,634
Total Nonfarm Assets Total Assets	85,555 1,504,264	90,753 1,572,593	-			131,181 2,269,241
Liabilities Current Farm Liabilities Accrued interest Accounts payable Current notes Government crop loans Principal due on term debt Total current farm liabilities	14,797 10,839 160,810 0 55,419 241,865	6,703 13,721 178,902 1,006 53,830 254,162	135,567 0 30,010		11,201 186,052 0 80,828	232,871 2,013 77,773
Total intermediate farm liabs Total long term farm liabilities Total farm liabilities	198,266 309,085 749,215	155,369 280,895 690,427	162,334 130,489 476,020	148,188 135,437 470,299		162,551 426,354 910,555
Total nonfarm liabilities Total liabs excluding deferreds Total deferred liabilities Total liabilities	2,646 751,861 18,286 770,147	2,947 693,374 25,056 718,430	476,020 0	470,299 0	5,292 1,027,702 36,571 1,064,273	50,112
Retained earnings Market valuation equity Net worth (farm and nonfarm) Net worth excluding deferreds Net worth change	235,070 499,047 734,117 752,403 120	854,163	311,207 367,438 367,438	336,973 405,646	1,100,797 1,137,368	714,884 1,302,680
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	76 % 62 % 43 % 51 % 50 %	52 %	89 % 32 %	86 % 80 % 33 % 54 % 54 %	52 % 48 % 49 %	42 % 44 %

STATEMENT OF CASH FLOWS, 2000 Swine Farms in Michigan

	Avg. Of All Farms	Low 50%	High 50%
Number of farms	14	7	7
Beginning cash (farm & nonfarm)	21,092	21,944	20,241
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	831,124 4,594 -762,186 -25,946 -682 46,903	8,771 -482,965 -15,088	417 -1,041,408
Cash From Investing Activities Sale of breeding livestock Sale of machinery & equipment Sale of farm land Sale of farm buildings Sale of other farm assets Sale of nonfarm assets Purchase of breeding livestock Purchase of machinery & equip. Purchase of farm land Purchase of farm buildings Purchase of other farm assets Purchase of nonfarm assets Cash from investing activities	1,379 4,607 40,956 - 14,1124,790 -33,754 - 7,466 -9,948 -7,815 -2,720	3,160 	6,054 81,912 26,082
Cash From Financing Activities Money borrowed Transfers in from nonfarm sources Principal payments Dividends paid Transfers out to nonfarm uses Cash from financing activities Net change in cash balance	244,134 9,583 -298,005 - -284 -44,572 -388	-148,177 - - -19,966	-569
Ending cash (farm & nonfarm)	20,704	15,483	25,925

FINANCIAL STANDARDS MEASURES, 2000 Swine Farms in Michigan

	Average Of All Farms	Average Of Low 50 %	Average Of High 50 %
Number of Farms	14	7	7
LIQUIDITY Current ratio Working capital	1.59 149,286	1.16 30,150	1.83 268,422
SOLVENCY (Market) Farm debt to asset ratio Farm equity to asset ratio Farm debt to equity ratio	48 % 52 % 93 %	57 % 43 % 132 %	45 % 55 % 81 %
PROFITABILITY (cost) Rate of return on farm assets Rate of return on farm equity Operating profit margin Net farm income		3.4 % -44.2 % 6.1 % 12,180	12.8 % 25.1 % 22.7 % 165,068
REPAYMENT CAPACITY Term debt coverage ratio Capital replacement margin	194 % 80,312	160 % 20,676	203 % 139,949
EFFICIENCY Asset turnover rate(cost) Operating expense ratio Depreciation expense ratio Interest expense ratio Net farm income ratio	56.0 % 76.0 % 7.8 % 6.3 % 9.9 %	55.8 % 82.4 % 8.1 % 7.2 % 2.2 %	56.1 % 73.2 % 7.6 % 6.0 % 13.3 %

FINANCIAL SUMMARY, 2000

Swine Farms in Michigan

(Farms Sorted By F	Average Of All Farms	Average Of Low 50 %	Average Of High 50 %
Number of Farms Income Statement Gross cash farm income	14	7	7
Total cash farm expense Net cash farm income Inventory change Depreciation and capital adj Net farm income	762,186 68,937 89,107 -69,421 88,624	482,965 42,588 14,416 -44,824 12,180	1,041,408 95,287 163,798 -94,017 165,068
Profitability (cost) Labor and management earnings Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	5 73,285 10.2 % 17.5 % 18.2 % 56.0 %	5,989 3.4 % -44.2 % 6.1 % 55.8 %	140,581 12.8 % 25.1 % 22.7 % 56.1 %
Profitability (market) Labor and management earnings Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate	5 65,671 8.0 % 8.3 % 21.9 % 36.5 %	19,374 5.6 % 1.6 % 15.5 % 36.0 %	111,968 8.9 % 10.4 % 24.3 % 36.7 %
Liquidity Term debt coverage ratio Expense as a percent of incom Interest as a percent of inco		159.8 % 89.6 % 7.2 %	203.1 % 79.1 % 6.0 %
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 End total debt to asset ratio	o 76 %	7 522,932 470,299 538,972 470,299 68,673 12,442 90 % 89 % 89 %	7 1,403,182 910,555 1,504,246 916,450 587,796 173,887 65 % 71 % 61 %
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 End total debt to asset ratio	o 51 %	7 825,619 470,299 875,944 470,299 405,646 38,208 57 % 56 % 56 % 54 %	7 2,138,060 956,243 2,269,241 966,561 1,302,680 201,883 45 % 49 % 43 %
Nonfarm Information Net nonfarm income	4,594	8,771	417

OPERATOR AND LABOR SUMMARY, 2000 Swine Farms in Michigan

	Average Of All Farms	Average Of Low 50 %	Average Of High 50 %
Number of Farms	14	7	7
OPERATOR INFORMATION			
Average number of operators	1.8	1.4	2.1
Average age of operators	53.2	46.7	59.7
Average number of years farmin	ng 28.2	19.6	36.9
Results Per Operator			
Working capital	83,600	21,105	125,263
Total assets (market)	880,652	613,161	1,058,979
Total liabilities	416,352	329,209	474,447
Net worth (market)	464,300	283,952	584,532
Net worth excl deferred liabs	478,331	283,952	607,917
Gross farm income	501,315	385,417	578,581
Total farm expense	451,686	376,891	501,550
Net farm income	49,629	8,526	77,032
Net nonfarm income	2,572	6,140	194
Family living withdrawals	14,912	10,562	17,812
Total acres owned	200.6	91.6	273.3
Total crop acres	423.3	287.1	514.2
Crop acres owned	121.2	50.7	168.3
Crop acres cash rented	285.0	231.2	320.9
Crop acres share rented	17.1	5.2	25.1
Labor Analysis			
Number of farms	14	7	7
Total unpaid labor hours	3,621	2,791	4,451
Total hired labor hours	4,584	2,010	7,158
Total labor hours per farm	8,205	4,800	11,609
Unpaid hours per operator	2,028	1,954	2,077
Value of farm production / hour	64.53	60.80	66.07
Net farm income / unpaid hour	24.47	4.36	37.08