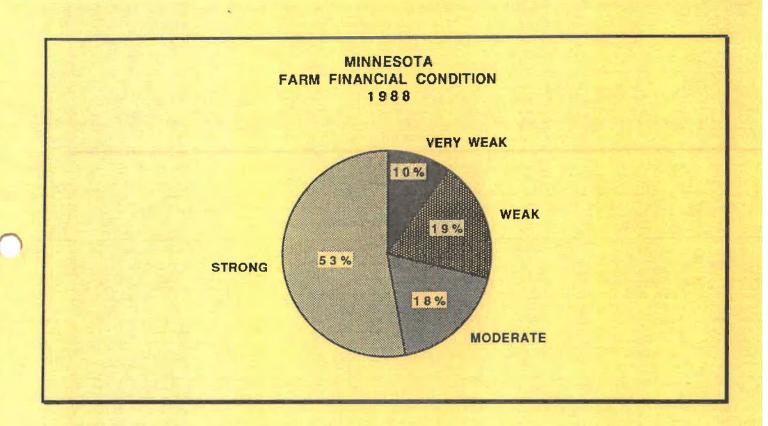
FARM FINANCIAL CONDITION

1989 Report

FARM FINANCIAL DATA COLLECTION TASK FORCE



MINNESOTA DEPARTMENT OF AGRICULTURE

IN COOPERATION WITH THE

MINNESOTA TECHNICAL COLLEGE SYSTEM AND MINNESOTA EXTENSION SERVICE

FARM FINANCIAL DATA COLLECTION TASK FORCE

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ACKNOWLEDGEMENT

Officials of the Minnesota Technical College System and the Minnesota Extension Service coordinated the collection of the financial data, assisted in the formulation of this Report and reviewed the numerous drafts. The preparation of the final Report of the Task Force, however, was entrusted to the Planning Division of the Minnesota Department of Agriculture.

Cover Graph is explained on page 9 of this Report.

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SECTION I

MAJOR FINDINGS

I. SECTION IV A - CASH FLOW SUMMARY

- * Net Cash Farm Income increased from \$31,597 in 1986 to \$49,808 in 1988.
- * Total Cash Income increased to \$58,002 in 1988 from \$38,797 in 1986.
- * Federal Government payments fell from 58.8 percent of Net Cash Farm Income in 1987 to 39.1 percent in 1988.

II. SECTION IV B - DEBT-ASSET SUMMARY

- * The average debt-asset ratio of 0.48 is down from its level of 0.50 in 1987.
- * Debt obligations relative to asset holdings has declined steadily the past three years.

III. SECTION IV C - FINANCIAL CONDITION SUMMARY

* 53 percent of the farm operators were classified as being in a "strong" financial condition.

IV. SECTION IV D - FARM ENTERPRISE SUMMARIES

* CROP FARMS

- * Net Cash Operating Income varied between \$19,176 to \$68,753, depending on farm size.
- * Large crop farms had a debt-asset ratio of 0.44 compared to 0.49 for smaller farming units.

* DAIRY FARMS

- * Net Cash Operating Income varied between \$26,957 to \$60,926, depending on farm size.
- * Large dairy farms had a debt-asset ratio of 0.51 compared to 0.59 for smaller farming units.

* CROP-DAIRY FARMS

- * Net Cash Operating Income varied between \$29,203 to \$69,726, depending on farm size.
- * Large dairy farms had a debt-asset ratio of 0.50 compared to 0.53 for smaller farming units.

* CROP-SWINE FARMS

- * Net Cash Operating Income varied between \$26,867 to \$77,892, depending on farm size.
- * The larger crop-swine operations had a debt-asset ratio of 0.44 compared to 0.55 for the smaller units.

V. SECTION IV E - LAND TENURE SUMMARY

- * Approximately 20 percent of the operators rented all the land in their operation.
- * Two-thirds of these operators were less than 35 years old.
- * The Addition to Owners Equity for renter-operators was \$24,580 compared to \$18,944 for owner-operators.
- * The average debt-asset ratio for renter-operators was 0.44 compared to 0.52 for owner-operators.

CONCLUSION

Cash flow has increased over 1986 and 1987 levels and debt levels have continued to decline over the past three years. Hence, in spite of the "Drought of '88", Minnesota farm financial conditions have continued to improve in 1988.

SECTION II

DEFINITION OF TERMS

<u>Liquidity Measures</u> -- Measures the ability to make loan and debt payments as they come due during the year.

- 1. Net Cash Farm Income: Cash farm receipts from the sale of agricultural products plus government payments, less cash production expenses. Interest is a cash expense; depreciation is not and is not included.
 - 2. Off-Farm Income; Income earned from off farm employment.
 - 3. Total Cash Income: The sum of Net Cash Farm Income and Off-Farm Income.

4. Current Ratio: Current Assets divided by Current Liabilities. This ratio is used to measure the liquidity available for paying short-term obligations. It shows the ability to pay debts as they come due

during the year.

- 5. Working Capital Ratio: Current plus Intermediate Assets divided by Current plus Intermediate Liabilities. This ratio reflects the ability of the farm business to maintain liquity and management flexibility to meet price decreases and other factors that negatively affect asset values. It is commonly understood that this ratio should be greater than 2:1 and increasing over time.
 - 6. Debt Service Coverage Ratios
- a. <u>Farm Income</u>. Alone: Net Cash Farm Income plus Interest Payments less Family Living and Income Taxes divided by debt service costs (Interest plus Principal Payments). This ratio reveals the ability to service debt, meet family living needs and pay taxes out of annual farm income. A ratio less than "I.0" indicates a problem in meeting debt service requirements.

b. Total Cash Income: Same as (a), above, except Off-Farm Income is included.

Solvency Measures -- Reflects the risk of the farm's financial structure and ability to repay all outstanding farm debt at a point in time.

7. Assets: Items of ownership having exchange value.

- a. Current: Cash or other items that will be received, converted to cash, or consumed in production during one business year.
 - b. Intermediate: Items that support production and have an expected useful life of one-ten years.
 - c. Long-Term: Items of a more permanent nature such as land, buildings and improvements.
 - 8. Liabilities: Debts or monetary obligations.
 - a. Current: Obligations due and payable on demand within current accounting period.
 - b. Intermediate: Obligations that are expected to be repaid over a period on one to ten years.
 - c. Long-Term: Obligations with repayment terms of more than ten years.
 - 9. Equity: Assets minus Liabilities.
- 10. <u>Debt-Asset Ratio</u>: Total Liabilities divided by Total Assets. This measure reflects the overall financial risk of the farm operator. It shows the amount of debt pledged against the assets of the farm. The larger the ratio, the greater the risk.

<u>Profitablility Measures</u> -- Measures the farm's profitabliity and indirectly reflects the farmer's managerial ability.

- 11. Return on Assets (%): Net Farm Income plus Interest Payments minus Family Living divided by Average Total Assets. Measures the profitability in terms of the relationship to total assets employed on the farm including both debt and equity capital.
- Efficiency Measures -- Measures the financial efficiency of the farm business.

 12.Interest Expense -% of Receipts: Interest Expense divided by Total Cash Receipts. This ratio shows the proportion of cash receipts that are used for interest payments.

SECTION III

INTRODUCTION

The 1989 Minnesota Farm Financial Report is a continuation of previous surveys authorized by the Farm Financial Data Collection Task Force of the Minnesota Legislature. The responsibility of the Task Force is to collect data on the farm financial conditions in Minnesota and report these findings to the State Legislature.

The financial data in this Report was obtained from participants in the Minnesota Technical College System Farm Management Program and from the Southeastern-Southwestern Minnesota Farm Business Management Associations (Extension Service). A total of 2,652 farm records from the Technical College program and 213 records from the Extension Service program were compiled and summarized in this Report. Appendix A contains the survey form used to gather the financial date used in this Report. Figure 1, below, shows the location of the participants in the 1989 Farm Financial Report. Technical College and Extension Service personnel assisted in the collection and analysis of this data.

A set of descriptive statistics for the farm operators included in this year's Report is contained in Appendix B.

Average values for operator age is 39; farm size is 534 acres; and net cash farm income is \$49,808. Both Technical College and Extension Service operators are identified, along with the result of combining the two sets of financial data ("Comb Data"). This data is also compared to 1987 Census data. The tables and graphs in this Report are based upon the combined set of data of farm operators.

LOCATION OF SURVEY PARTICIPANTS

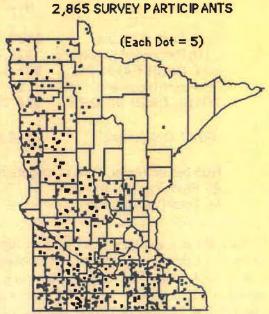


Figure 1 - Surveys per County

SECTION IV

STATE WIDE SUMMARY

Cash Flow Summary 1986-1988

In spite of the "Drought of '88", cash flow increased over 1986 and 1987 levels, as seen in Table 1, below. Cash farm receipts increased thru improved prices for grain and oilseed crops, movement of reserve grain to market, Federal program support, disaster and emergency feed program payments, together with insurance proceeds. Additionally, a relatively strong beef market helped improve the earnings of both beef and dairy producers. Farm prices recived for Minnesota crop and livestock products is contained in Appendix C.

While cash production expenses were also higher, Net Cash Farm Income increased from \$31,597 in 1986 to \$49,808 in 1988. With the addition of Off-Farm Income, Total Cash Income increased from \$38,797 in 1986 to \$58,002 in 1988.

Table 1
CASH FLOW SUMMARY¹
1986-1988

	1986	1987	1988
	ALL FARMS	ALL FARMS	ALL FARMS
	(N = 790)	(N=978)	(N=2865)
ITEM		The Land Street of	
Cash Farm Receipts	\$129,708	\$154,285	\$173,176
Cash Production Expenses	\$97,739	\$117,751	\$123,368
NET CASH FARM INC	\$31,597	\$37,156	\$49,808
Off-Farm Income	\$7,143	\$8,354	\$8,492
TOTAL CASH INCOME	\$38,797	\$45,595	\$58,002
"Fixed Obligations"2	\$40,869	\$40,737	\$37,452
Number of Times "Fixed Obligations" Covered:3			
By Farm Income, Alone	0.77	0.91	1.33
By Total Cash Income	0.95	1.12	1.55

¹ This table is a summary of all the data reports used. However, all operators did not answer each question. Hence, the columns may not add due to missing data from any given operator.

² Principal reduction payments, family living expenses plus social security and income taxes. All interest expenses are included in cash production expenses. Annual principal reduction payments for 1988 were calculated at the rate of 12% of nonreal estate liabilities and 6% of real estate liabilities.

³ Income divided by "Fixed Obligations". This ratio will be "1.0" or greater if these obligations are fully covered.

These income figures, however, need to be evaluated in light of the "Fixed Obligations" that have been committed to by the operators and their families. These financial commitments, which averaged \$37,452 for 1988, include annual principal reduction payments, family living expenses and social security and income taxes.

The relationship between income and "Fixed Obligations" is seen in the lower portion of Table 1. This relationship is expressed as a ratio which indicates whether or not "Fixed Obligations" are fully covered by the two measures of income. This ratio will be "1.0" or greater, if these obligations are fully covered.

With improved income and "Fixed Obligations" remaining relatively steady, or declining, this ratio has strengthened in the past three years, indicating an improved cash flow situation for the operators included in this analysis.

These findings are confirmed by data for Minnesota compiled by the U.S. Department of Agriculture for the period 1983-1987. Total Cash Income has increased since 1984 and is comparable to the income levels cited in this Report.¹

FEDERAL GOVERNMENT PAYMENTS

While still sizable, the level and proportion of Federal Government payments dropped sharply from 1987 levels (Table 2). With relatively strong commodity prices, deficiency payments were cut, and farmers received a greater proportion of their income from farm marketings and off farm employment.

Table 2 FEDERAL GOVERNMENT PAYMENTS¹ 1987-1988

	1987	1988
	ALL FARMS	ALL FARMS
ITEM	(N=998)	(N=2865)
Government Payments	\$24,085	\$19,499
Government Payments	as a Percent o	of:
Cash Farm Receipts	14.1	11.3
Net Cash Farm Income	58.8	39.1
Total Cash Income	48.5	33.6

¹ Government payments includes dificiency payments, storage payments and other program support payments, excluding dairy buyout payments.

Appendix D, "Minnesota Farm Income Indicators." USDA defines a "farm" as a place that sells or normally sells at least \$1,000 of agricultural products annually.

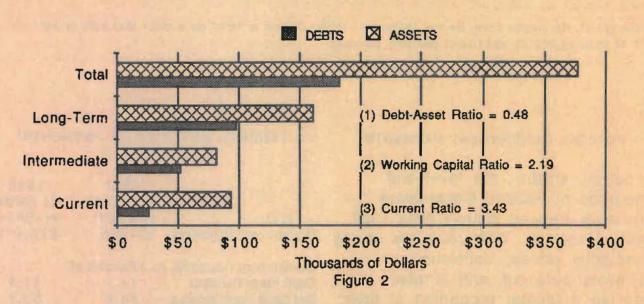
DEBT-ASSET SUMMARY

AVERAGE DEBT-ASSET STRUCTURE

The average Debt-Asset structure of the operators in this analysis is shown in Figure 2, below. Total Assets of \$378,000 are more than twice the level of Total Liabilities of \$182,000. Hence, the Debt-Asset ratio of 0.48 is below the desired "bankers rule-of-thumb" of 0.50 for this measure of solvency.

Additional measures of solvency are reflected in the relationship between nonreal estate assets and liabilities. The Working Capital ratio reflects the degree of financial flexibility available to farm managers to meet business downturns. Its average value for the operators in this study is slightly above the commonly used standard of 2:1.

AVERAGE DEBT-ASSET STRUCTURE December 31, 1988



(1) Total Liabilities divided by Total Assets; (2) Current plus Intermediate Assets divided by Current plus Intermediate Liabilities; (3) Current Assets divided by Current Liabilities.

The Current Ratio reflects the operators ability to pay off annual debts as they come due during the year. For operators in this analysis, Current Assets averaged more than 3 times the level of Current Liabilities - a very strong current ratio position. (The judgements as to the normative values of these ratios are those of the reviewers of this report.)

SUMMARY BALANCE SHEET

The change in the overall solvency position of the farm operators is reflected in Table 3, which shows the Balance Sheet at the end of 1987 and 1988. The major changes to be noted are the intermediate and long-term asset values.

The intermediate asset increases reflect increased inventory values and purchases of new farm equipment and breeding livestock during the year. Long-term assets have also increased reflecting both the purchase of real estate as well as the increase in land values. With debt levels remaining relatively stable, owners equity, by definition, shows a corresponding increase. This is also reflected in a slightly lower debt-asset ratio for 1988.

These observations are generally confirmed by findings of the U.S. Department of Agriculture and the University of Minnesota which are contained in Appendices E and F. Both reports confirm the increase in real estate and nonreal estate values.

Table 3
SUMMARY BALANCE SHEET
1987-1988

	Dec. 31, 1987	Dec. 31, 198
	ALL FARMS	ALL FARMS
ITEM	(N=1214)	(N=2865)
ASSETS	DATE OF THE	1 4 4
Current Assets	\$92,226	\$94,377
Intermediate Assets	\$63,044	\$81,915
Long-Term Assets	\$157.922	\$161.441
Total Bus Assets	\$313,192	\$337,734
Personal Assets	\$41.831	\$40,223
TOTAL ASSETS	\$355,023	\$377,957
LIABILITIES		
Current Liabilities	\$23,409	\$27,462
Intermediate Liabilities	\$52,615	\$53,041
Long-Term Liabilities	\$99,426	\$98,396
Total Bus Liabilities	\$ \$175,450	\$178,899
Personal Liabilities	\$1.683	\$3.676
TOTAL LIABILITIES	\$177,133	\$182,575
EQUITY		
Business Equity	\$137,742	\$158,834
TOTAL EQUITY	\$177,890	\$195,382
TOT LIAB & OWNER EQU	ITY \$355,023	\$377,957
RATIOS:		
Current Ratio ¹	3.94	3.43
Working Capital Ratio ²	2.04	2.19
Debt-Asset Ratio ³	0.50	0.48

¹ Current assets divided by current liabilities.

² Current plus intermediate assets divided by current plus intermediate liabilities.

³ Total liabilities divided by total assets.

DISTRIBUTION BY DEBT-ASSET RATIO

DISTRIBUTION BY AVERAGE DEBT-ASSET RATIO

The distribution of farm operators by average debt-asset ratio is shown in Figure 3. The proportion of operators in the 70 percent or more catagories declined from a year ago, while a greater number of farmers are now in the 11-70 percent range. The percent of those with no debt remained constant.

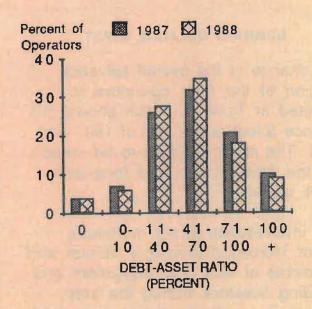


Figure 3

Table 4			
PERCENT OF OPERATORS			
DEBT-ASSET RATIO	1987	1988	
0	4	4	
0-10	7	6	
11- 40	26	28	
41-70	32	35	
71-100	21	18	
100 +	1.0	9	
Total	100	100	

The table to the left are the data points for Figure 3. The proportion of operators in the 70 percent or greater catagories declined 4 percentage points from a year ago, while the number of farmers in the 11-70 percent range increased 5 percentage points. The percent of those with no debt remained constant at 4 percent.

The overall improvement in the average debt-asset structure by age of farm operator is reflected in Figure 4, below. Except for the 55-64 year-old group of operators, debt levels have consistently fallen, relative to asset holdings, among all age groups since 1986. This observation is consistent with the U.S.D.A. report cited in Appendix E. The most significant improvement was made by the younger set of operators.

DEBT-ASSET RATIO BY OPERATOR AGE 1986-1988

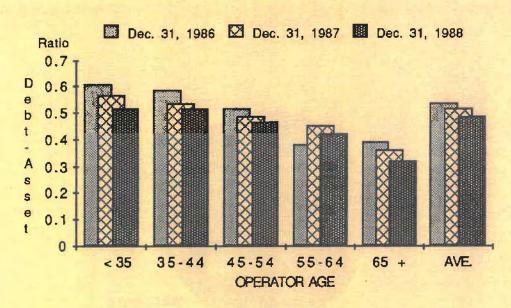


Figure 4

SUMMARY FARM FINANCIAL CONDITION

This section is a summary of the combined effect of cash flow and debt obligations into one statement of financial condition. An operators financial condition was measured by the value of his "Debt Service Coverage Ratio (DSCR)". This ratio combines both income and debt service obligations into one statement, and reveals the ability to service debt, meet family living needs and pay taxes out of annual income. The overall financial condition of Minnesota farmers in this analysis is shown in Figure 5, below.

MINNESOTA FARM FINANCIAL CONDITION 1988

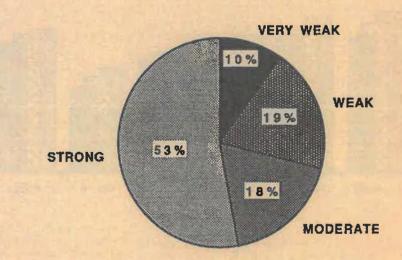


Figure 5

DSCR1	FINANCIAL CONDITION	EXPLANATION ²
< 0	Very Weak	Insufficient income to meet
0 - 1.0	Weak	family living and pay taxes Problem in meeting debt
1.0 - 1.5	Moderate	service obligations Debt obligations are met,
		but limited funds for reinvestment in business
> 1.5	Strong	Funds available to reinvest in business

¹ Debt Service Coverage Ratio: Total net cash income plus interest payments less family living and income taxes divided by debt service costs (interest plus principal payments).

² The four categories and explanations were developed by the Minnesota Department of Agriculture and approved by the reviewers of this report.

As seen, approximately one-half of the operators in this analysis could be considered to be in a relatively strong financial condition at the close of 1988. This is compared to 35 percent of the operators in 1987 (Table 4, below).

Table 5
FINANCIAL CONDITION
1987-1988

(Percent of Operators)

	1987	1988
VERY WEAK	19	10
WEAK	28	19
MODERATE	18	18
STRONG	35	53
TOTAL	100	100

Improved net income together with reduced debt loads have caused many farm operators to move into an improved and stronger financial position.

ENTERPRISE AND FARM SIZE SUMMARY

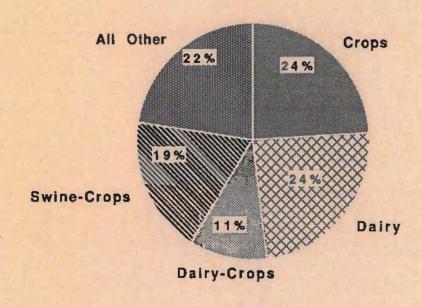
This Section provides a brief summary of the financial situation of the farm operators by major farm enterprise and farm size, regardless of their location in the State. The proportion of operators by major farm enterprise is seen in Figure 6, below.

Major farm enterprises were determined by the proportion of total cash farm receipts contributed by a given enterprise or combination of enterprises. If 75 percent, or more, of total receipts were contributed by an enterprise, it was classified accordingly.

Farm size was determined by the level of total cash farm receipts. Two sizes were determined: one, less than or equal to \$150,000 and the other, greater than \$150,000 in total cash farm receipts. (See Figure 5, Appendix B, page 44.).

Because of the wide variety of enterprises included in the "Other" enterprise classification, they were omitted from the following summaries.

MAJOR FARM ENTERPRISES



ALL CROP FARMS

Table 6 SUMMARY INCOME STATEMENT 1988

	<\$150,000	>\$150,000
	(N=334)	(N=230)
ITEM		
Operating Receipts	\$84,793	\$260,394
Operating Exp. b/f Int	\$57,666	\$170,858
Interest Expense	\$7.951	\$20,782
NET CASH OPERATING INC	\$19,176	\$68,753
Depreciation Expense	\$8,294	\$19,295
Change in Value of Inv.	\$7,783	\$14,713
Extra Ordinary Income		
Sale of Assets	\$386	\$326
Debt Forgiveness	\$312	\$776
BEFORE TAX RETURN	\$19,362	\$65,274
Inc Tax Paid (1987)	\$2,298	\$4.325
AFTER TAX RETURN	\$17,064	\$60,949
Off-Farm Income	\$10,973	\$9,525
Withdrawls (Fam Living)	\$16,268	\$25,474
ADD TO OWNER EQUITY	\$11,769	\$45,000
Table	7	

SUMMARY BALANCE SHEET Dec. 31, 1988

000. 01	, 1000	
	<\$150,000	>\$150,000
ITEM	(N=334)	(N=230)
ASSETS		
Current Assets	\$55,902	\$145,186
Intermediate Assets	\$44,128	\$112,010
Long-Term Assets	\$110.557	\$265,612
Total Bus Assets	\$210,587	\$522,808
Personal Assets	\$34.467	\$61,518
TOTAL ASSETS	\$245,054	\$584,326
LIABILITIES		
Current Liabilities	\$20,407	\$47,017
Intermediate Liabilities	\$32,842	\$70,525
Long-Term Liabilities	\$66.061	\$142.153
Total Bus Liabilities	\$119,310	\$259,695
Personal Liabilities	\$3.374	\$6.753
TOTAL LIABILITIES	\$122,684	\$266,448
EQUITY		
Business Equity	\$91,277	\$263,112
TOTAL EQUITY	\$122,370	\$317,878
TOT LIAB & OWNER EQUITY	\$245,045	\$584,326
RATIOS:		
Current Ratio ¹	2.72	3.40
Working Capital Ratio ²	1.89	2.32
Debt-Asset Ratio ³	0.49	0.44

¹ Current assets divided by current liabilities.

CROP FARMS AVERAGE FARM SIZE

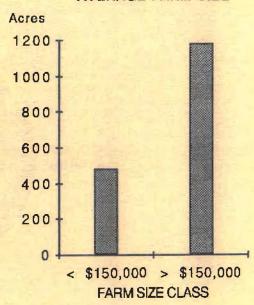


Figure 7

The larger crop farmers operate nearly 1,200 acres, while the smaller operators farm about 500 acres. In comparing the larger units with the smaller, receipts, expenses, and net cash operating income are about 3 times larger; the addition to owner equity is nearly 4 times greater.

Assets, liabilities and owners equity are 2.0-2.5 times greater for the larger operators and they also reflect a greater degree of financial flexibility in comparing the liquidity ratios. Both sets of operators demonstrate a relatively sound solvency position by their debt-asset ratios.

² Current plus intermediate assets divided by current plus intermediate liabilities.

³ Total liabilities divided by total assets.

CROP FARMS FINANCIAL CONDITION 1988

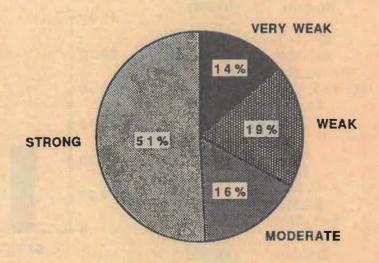


Figure 8

DSCR1	FINANCIAL CONDITION	EXPLANATION
< 0	Very Weak	Insufficient income to meet family living and pay taxes
0 - 1.0	Weak	Problem in meeting debt service obligations
1.0 - 1.5	Moderate	Debt obligations are met, but limited funds for reinvestment in business
> 1.5	Strong	Funds available to reinvest in business

¹ <u>Debt Service Coverage Ratio</u>: Total net cash income plus interest payments less family living and income taxes divided by debt service costs (interest plus principal payments).

ALL DAIRY FARMS

Table 8 SUMMARY INCOME STATEMENT 1988

	<\$150,000	>\$150.000
	(N=459)	(N=142)
ITEM		
Operating Receipts	\$96,370	\$221,607
Operating Exp. b/f Int	\$59,287	\$139,392
Interest Expense	\$10,126	\$21,289
NET CASH OPERATING INC	\$26,957	\$60,926
Depreciation Expense	\$8,756	\$21,385
Change in Value of Inv.	\$1,563	\$6,733
Extra Ordinary Income		
Sale of Assets	\$26	
Debt Forgiveness	\$118	\$7
BEFORE TAX RETURN	\$19,908	\$46,281
Inc Tax Paid (1987)	\$1.017	\$1.920
AFTER TAX RETURN	\$18,891	\$44,360
Off-Farm Income	\$5,831	\$4,382
Withdrawls (Fam Living)	\$14.059	\$19.317
ADD TO OWNER EQUITY	\$10,662	\$29,426

Table 9 SUMMARY BALANCE SHEET Dec. 31, 1988

	<\$150,000	>\$150.000
ITEM	(N=459)	(N=142)
ASSETS	To Political To	
Current Assets	\$34,782	\$86,207
Intermediate Assets	\$75,731	\$169,128
Long-Term Assets	\$90.735	\$212.782
Total Bus Assets	\$201,249	\$468,117
Personal Assets	\$28,766	\$42,855
TOTAL ASSETS	\$230,015	\$510,972
LIABILITIES	water for	
Current Liabilities	\$13,646	\$24,401
Intermediate Liabilities	\$49,099	\$84,265
Long-Term Liabilities	\$72,824	\$160,161
Total Bus Liabilities	\$135,569	\$268,828
Personal Liabilities	\$2.011	\$1.172
TOTAL LIABILITIES	\$137,581	\$270,000
EQUITY	E E	
Business Equity	\$65,680	\$199,289
TOTAL EQUITY	\$92,434	\$240,972
TOT LIAB & OWNER EQUITY	\$230,015	\$510,972
RATIOS:		
Current Ratio ¹	2.58	3.71
Working Capital Ratio ²	1.79	2.46
Debt-Asset Ratio ³	0.59	0.51

¹ Current assets divided by current liabilities.

DAIRY FARMS AVERAGE FARM SIZE

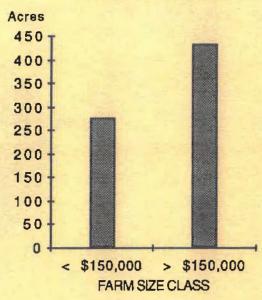


Figure 9

The larger dairy farms operate about 150 acres more than the smaller set. Their receipts, expenses, net cash operating income and the addition to owners equity is over twice that of the smaller units.

The comparison between the two sets of operators in terms of their assets and liabilities also reveals that the larger operators are about twice the size of the smaller units.

The larger units demsonstrate a greater degree of financial flexibility in comparing their liquidity ratios and show a slightly better solvency position with a lower debt-asset ratio.

² Current plus intermediate assets divided by current plus intermediate liabilities.

³ Total liabilities divided by total assets.

DAIRY FARMS FINANCIAL CONDITION 1988

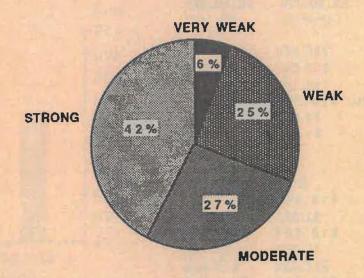


Figure 10

DSCR1	FINANCIAL CONDITION	<u>EXPLANATION</u>
< 0	Very Weak	Insufficient income to meet family living and pay taxes
0 - 1.0	Weak	Problem in meeting debt service obligations
1.0 - 1.5	Moderate	Debt obligations are met, but limited funds for reinvestment in business
> 1.5	Strong	Funds available to reinvest in business

^{1 &}lt;u>Debt Service Coverage Ratio:</u> Total net cash income plus Interest payments less family living and income taxes divided by debt service costs (interest plus principal payments).

ALL CROP - DAIRY FARMS

	Table 10	
SUMMARY	INCOME	STATEMENT
	1988	

	<\$150,000	>\$150,000
	(N=137)	(N=147)
ITEM		
Operating Receipts	\$97,287	\$234,215
Operating Exp. b/f Int	\$58,027	\$142,186
Interest Expense	\$10.056	\$22,303
NET CASH OPERATING INC	\$29,203	\$69,726
Depreciation Expense	\$9,446	\$22,825
Change in Value of Inv.	\$5,738	\$11,611
Extra Ordinary Income		
Sale of Assets		
Debt Forgiveness		\$136
BEFORE TAX RETURN	\$25,495	\$58,647
Inc Tax Paid (1987)	\$1.835	\$2.936
AFTER TAX RETURN	\$23,660	\$55,711
Off-Farm Income	\$7,289	\$6,580
Withdrawis (Fam Living)	\$15.317	\$22.621
ADD TO OWNER EQUITY	\$15,633	\$39,670
Operating Exp. b/f Int Interest Expense NET CASH OPERATING INC Depreciation Expense Change in Value of Inv. Extra Ordinary Income Sale of Assets Debt Forgiveness BEFORE TAX RETURN Inc Tax Paid (1987) AFTER TAX RETURN Off-Farm Income Withdrawls (Fam Living)	\$10.056 \$29,203 \$9,446 \$5,738 \$5,738 \$25,495 \$1.835 \$23,660 \$7,289 \$15.317	\$22.30 \$69,72 \$22,82 \$11,61 \$13 \$58,64 \$2.93 \$55,71 \$6,58 \$22.62

Table 11 SUMMARY BALANCE SHEET Dec. 31, 1988

D00. 01	, 1000	
	<\$150.000	>\$150.000
ITEM	(N=137)	(N=147)
ASSETS		
Current Assets	\$50,793	\$118,900
Intermediate Assets	\$69,192	\$152,442
Long-Term Assets	\$113.151	\$225.610
Total Bus Assets	\$233,136	\$496,951
Personal Assets	\$30,804	\$43,456
TOTAL ASSETS	\$263,940	\$540,408
LIABILITIES		
Current Liabilities	\$12,783	\$25,124
Intermediate Liabilities	\$43,297	\$91,852
Long-Term Liabilities	\$80.727	\$148.413
Total Bus Liabilities	\$136,807	\$265,389
Personal Liabilities	\$4.766	\$1.836
TOTAL LIABILITIES	\$141,573	\$267,225
EQUITY		
Business Equity	\$96,329	\$231,563
TOTAL EQUITY	\$122,367	\$273,183
TOT LIAB & OWNER EQUITY	\$263,940	\$540,408
RATIOS:		
Current Ratio 1	4.05	4.86
Working Capital Ratio ²	2.16	2.29
Debt-Asset Ratio ³	0.53	0.50
2001710001 110110		

¹ Current assets divided by current liabilities.

CROP-DAIRY FARMS AVERAGE FARM SIZE

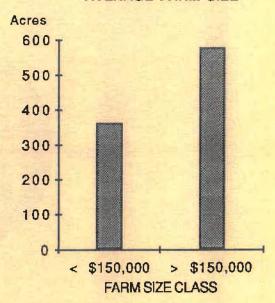


Figure 11

There is about a 200 acre difference in farm size between the two groups of farm operators.

comparing the larger operations with the smaller, receipts, expenses, net cash operating income the and addition to owner equity is 2.0times larger; assets, liabilities and owner equity is about 2 times greater; the larger units are in a slightly better liquidity and solvency position, but both sets of operators show a relatively sound financial position.

² Current plus intermediate assets divided by current plus intermediate liabilities.

³ Total liabilities divided by total assets.

CROP-DAIRY FARMS FINANCIAL CONDITION 1988

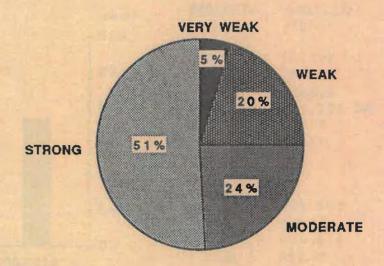


Figure 12

DSCR1	FINANCIAL CONDITION	EXPLANATION
< 0	Very Weak	Insufficient income to meet family living and pay taxes
0 - 1.0	Weak	Problem in meeting debt service obligations
1.0 - 1.5	Moderate	Debt obligations are met, but limited funds for reinvestment in business
> 1.5	Strong	Funds available to reinvest in business

¹ <u>Debt Service Coverage Ratio:</u> Total net cash income plus interest payments less family living and income taxes divided by debt service costs (interest plus principal payments).

ALL CROP - SWINE FARMS

Table 12 SUMMARY INCOME STATEMENT 1 9 8 8

	<\$150,000	>\$150.000
	(N=229)	(N=266)
ITEM		
Operating Receipts	\$97,129	\$258,977
Operating Exp. b/f Int	\$63,050	\$164,064
Interest Expense	\$7.211	\$17.021
NET CASH OPERATING INC	\$26,867	\$77,892
Depreciation Expense	\$9,349	\$19,747
Change in Value of Inv.	\$4,137	(\$1,131)
Extra Ordinary Income		
Sale of Assets		\$813
Debt Forgiveness	\$527	\$829
BEFORE TAX RETURN	\$22,182	\$58,655
Inc Tax Paid (1987)	\$2.500	\$5.561
AFTER TAX RETURN	\$19,682	\$53,094
Off-Farm Income	\$10,067	\$7,502
Withdrawls (Fam Living)	\$16.063	\$23.695
ADD TO OWNER EQUITY	\$13,687	\$36,901

Table 13 SUMMARY BALANCE SHEET Dec. 31, 1988

	<\$150,000	>\$150.000
ITEM	(N=229)	(N=266)
ASSETS		
Current Assets	\$54,478	\$134,456
Intermediate Assets	\$41,594	\$81,579
Long-Term Assets	\$88,126	\$217.513
Total Bus Assets	\$184,198	\$433,548
Personal Assets	\$33.349	\$47.162
TOTAL ASSETS	\$217,547	\$480,710
LIABILITIES	ment of a	
Current Liabilities	\$12,609	\$32,877
Intermediate Liabilities	\$36,961	\$56,409
Long-Term Liabilities	\$62,690	\$124,443
Total Bus Liabilities	\$112,260	\$213,729
Personal Liabilities	\$2,768	\$3,061
TOTAL LIABILITIES	\$115,028	\$216,790
EQUITY		
Business Equity	\$71,938	\$219,819
TOTAL EQUITY	\$102,519	\$263,920
TOT LIAB & OWNER EQUITY	\$217,547	\$480,710
RATIOS:		
Current Ratio 1	4.50	4.12
Working Capital Ratio ²	2.06	2.53
Debt-Asset Ratio ³		
Debt-Asset Hatto	0.50	0.44

¹ Current assets divided by current liabilities.

CROP-SWINE FARMS AVERAGE FARM SIZE

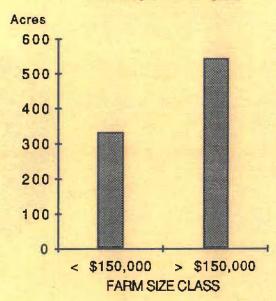


Figure 13

In comparing the larger operations with the smaller, there is about a 200 acre difference in total land operated; receipts, expenses, net cash operating income and the addition to owners equity are over 2.5 times larger; assets, liabilities and owners equity are approximately twice as large.

The liquidity position of both sets of operators is similar, but the larger operators have a slight advantage in their solvency situation with a lower debtasset ratio.

² Current plus intermediate assets divided by current plus intermediate liabilities.

³ Total liabilities divided by total assets.

CROP-SWINE FARMS FINANCIAL CONDITION 1988

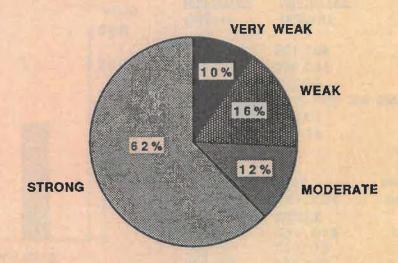


Figure 14

DSCR1_	FINANCIAL CONDITION	EXPLANATION
< 0	Very Weak	Insufficient income to meet
0 - 1.0	Weak	family living and pay taxes Problem in meeting debt service obligations
1.0 - 1.5	Moderate	Debt obligations are met, but limited funds for reinvestment in business
> 1.5	Strong	Funds available to reinvest in business

^{1 &}lt;u>Debt Service Coverage Ratio:</u> Total net cash income plus interest payments less family living and income taxes divided by debt service costs (interest plus principal payments).

ALL OTHER FARMS

Table 14 SUMMARY INCOME STATEMENT 1988

	<\$150.000	>\$150.000
	(N=290)	(N=234)
ITEM		
Operating Receipts	\$84,794	\$313,310
Operating Exp. b/f Int	\$52,765	\$178,562
Interest Expense	\$8,145	\$23,921
NET CASH OPERATING	INC \$23,884	110,827
Depreciation Expense	\$7,374	\$18,991
Change in Value of Inv.	\$7,919	\$25,232
Extra Ordinary Income		
Sale of Assets	\$74	* *
Debt Forgiveness	<u></u>	\$274
BEFORE TAX RETURN	\$24,502	117,342
Inc Tax Paid (1987)	\$1.538	\$3.528
AFTER TAX RETURN	\$22,964	113,814
Off-Farm Income	\$10,991	\$9,382
Withdrawls (Fam Living)	\$14.642	\$21.982
ADD TO OWNER EQUITY	\$19,313	101,215

Table 15 SUMMARY BALANCE SHEET Dec. 31, 1988

< \$150,000 >\$150,000 **ITEM** (N=290) (N=234)ASSETS Current Assets \$52,082 \$172,303 Intermediate Assets \$52,598 \$110,375 Long-Term Assets \$239,609 \$101,698 Total Bus Assets \$206,377 \$522,287 Personal Assets \$32,268 \$48.224 TOTAL ASSETS \$238,645 \$570,511 LIABILITIES Current Liabilities \$19,071 \$57,016 Intermediate Liabilities \$34,691 \$87,769 Long-Term Liabilities \$58,352 \$141.320 Total Bus Liabilities \$112,113 \$286,105 Personal Liabilities \$4.911 \$6.185 TOTAL LIABILITIES \$117,025 \$292,290 EQUITY **Business Equity** \$94,264 \$236,181 TOTAL EQUITY \$121,620 \$278,220 TOT LIAB & OWNER EQUITY \$238,645 \$570,511 RATIOS: Current Ratio¹ 2.73 3.09 Working Capital Ratio² 1.95 1.95 Debt-Asset Ratio³

0.49

ALL OTHER FARMS **AVERAGE FARM SIZE**

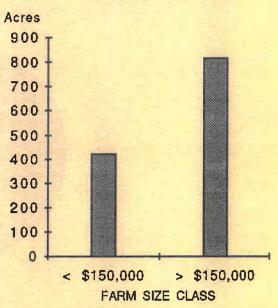


Figure 15

comparing the larger operations with smaller. the there is about a 400 difference in farm size; receipts and expenses are over 3 times greater; the addition to owners equity is over 5 times greater; assets, liabilities and owners equity are approximately twice as great.

In comparing the financial ratios, there is not a significant difference between the two groups of operators.

0.51

¹ Current assets divided by current liabilities.

² Current plus intermediate assets divided by current plus intermediate liabilities.

³ Total liabilities divided by total assets.

ALL OTHER FARMS FINANCIAL CONDITON 1988

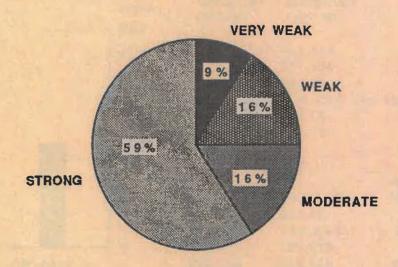


Figure 16

DSCR1_	FINANCIAL CONDITION	EXPLANATION
< 0	Very Weak	Insufficient income to meet family living and pay taxes
0 - 1.0	Weak	Problem in meeting debt service obligations
1.0 - 1.5	Moderate	Debt obligations are met, but limited funds for reinvestment in business
> 1.5	Strong	Funds available to reinvest in business

¹ <u>Debt Service Coverage Ratio:</u> Total net cash income plus interest payments less family living and income taxes divided by debt service costs (interest plus principal payments).

LAND TENURE SUMMARY

This Section of the Task Force Report presents a summary of operators who rent all the land in their operation, verses 100-percent owner-operators. Figure 11, below, shows the distribution of operators according to the percent of rented land in their operations.

The distinguishing feature of those who rent all their operation is their age. Fully two-thirds of these farmers are less than 35 years old. Most of their operations were cash crop farms, dairy or crop-swine operations. Appendix G contains a selected set of discriptive statistics comparing these two groups of farm operators.

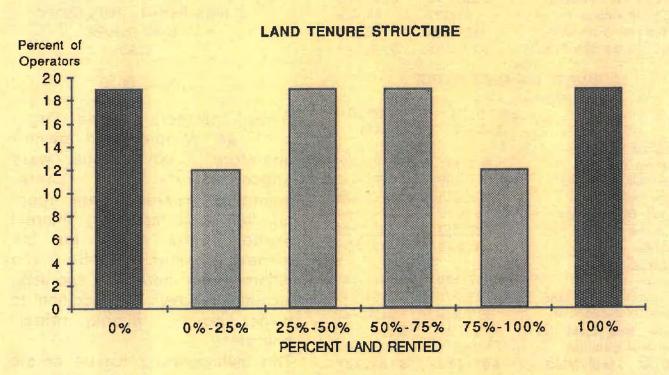


Figure 17

RENTER-OPERATOR VS OWNER-OPERATOR

Table 16
SUMMARY INCOME STATEMENT
1988

	100% RENT	100% OWNER
	(N=514)	(N=454)
ITEM		
Operating Receipts	\$126,634	\$121,453
Operating Exp. b/f Int	\$84,964	\$71,122
Interest Expense	\$5,938	\$13,292
NET CASH OPERATING	INC \$35,733	\$37,039
Depreciation Expense	\$8,686	\$11,194
Change in Value of Inv.	\$8,473	\$2,593
Extra Ordinary Income		
Sale of Assets	\$210	\$26
Debt Forgiveness	<u>\$146</u>	\$346
BEFORE TAX RETURN	\$35,875	\$28,811
Inc Tax Paid (1987)	\$2,137	\$2,105
AFTER TAX RETURN	\$33,739	\$26,706
Off-Farm Income	\$7,337	\$8,654
Withdrawls (Fam Living)	\$16,495	\$16.416
ADD TO OWNER EQUITY	\$24,580	\$18,944

Table 17 SUMMARY BALANCE SHEET

Dec. 31, 1988

	100% RENT	100% OWNER
ITEM	(N=595)	(N=484)
ASSETS		
Current Assets	\$69,341	\$60,895
Intermediate Assets	\$61,096	\$69,990
Long-Term Assets	\$28.461	\$177.469
Total Bus Assets	\$158,899	\$308,354
Personal Assets	\$23.013	\$38.573
TOTAL ASSETS	\$181,912	\$346,930
LIABILITIES		
Current Liabilities	\$18,170	\$17,180
Intermediate Liabilities	\$39,308	\$51,619
Long-Term Liabilities	\$18.819	\$110.329
Total Bus Liabilities	\$76,296	\$179,138
Personal Liabilities	\$5,176	\$2.332
TOTAL LIABILITIES	\$81,473	\$181,470
EQUITY		
Business Equity	\$82,603	\$129,217
TOTAL EQUITY	\$100,439	\$165,460
TOT LIAB & OWNER EQUITY	\$181,912	\$346,930
RATIOS:		
Current Ratio ¹	3.82	3.54
Working Capital Ratio ²	2.27	1.90
Debt-Asset Ratio ³	0.44	0,52
	Charles III	100 100

¹ Current assets divided by current liabilities.

RENTED VS OWNED AVERAGE FARM SIZE

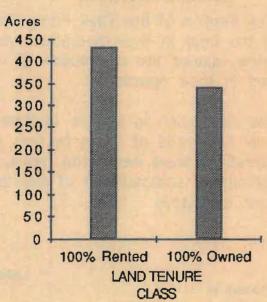


Figure 18

Renter-operators farmed larger units as compared to owner-operators. Cash receipts were approximately the same; operating expenses were larger for the renter-operator; interest expense was larger for the owner-operator. While the difference in net cash operating income is small, the addition to owner equity, favored renter-operators.

The distinguishing feature of the balance sheets is the difference in long-term assets and liabilities. Renter-operators show greater financial flexibility in their liquidity ratios and have an advance in their solvency position with a lower debt-asset ratio.

² Current plus intermediate assets divided by current plus intermediate liabilities.

³ Total liabilities divided by total assets.

MEASURES OF FINANCIAL PERFORMANCE

Below are a series of ratios which have been computed from the farm financial data. (Table 15). Each ratio has three principle values: The "Upper Quartile", "Median", and "Lower Quartile". For any given ratio, these figures are calculated by first computing the value of the ratio for each farm operator in the sample. These values are then arrayed - "listed" - in order from the strongest to the weakest.

In such an array of ratio values, the figure which falls in the middle between the strongest and the weakest ratios is the "Median". The figure that falls halfway between the median and the strongest ratio is the "Upper Quartile". The figure that falls halfway between the median and the weakest ratio is the "Lower Quartile".

The major reason for using medians and quartiles instead of an average is to eliminate the influence which extreme values would have on an average. The method used more accurately reflects the ranges of ratio values than would a straight averaging method.

The spread (range) between the Upper and Lower Quartiles represents the middle 50% of all the surveys in the sample. Ratio values greater than the upper or less than the lower quartiles, therefore, begin to approach "extreme" values.

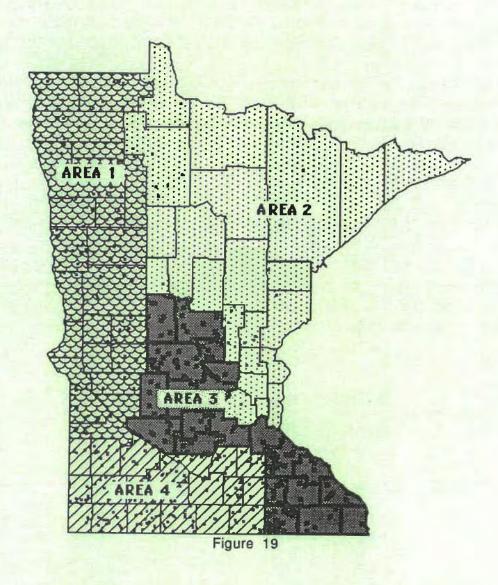
In interpreting ratios, the "strongest" or "best" value is not always the largest numerical value, nor is the "weakest" always the lowest numerical value. The ratios are grouped into four principal categories: liquidity, solvency, profitability and efficiency. The "Definition of Terms" Section (Section II) provides additional details regarding the interpretation of these measures.

Table 18 MEASURES OF FINANCIAL PERFORMANCE 1988

Market St.	LOWER QUARTILE	MEDIAN	UPPER QUARTILE
OPERATOR AGE TOTAL LAND OPERATED	31 260	37 400	46 641
FINANCIAL MEASURES			
LIQUITY MEASURES		TO WAR SHALLOW	
NET CASH FARM INCOME TOTAL CASH INCOME	\$19,384 \$27,466	\$35,160 \$43,471	\$60,259 \$68,457
CURRENT RATIO WORKING CAPITAL RATIO DEBT SERVICE COVERAGE		2.9 2.09	7.06 4.39
FARM INCOME, ALONE TOTAL CASH INCOME		1.28 1.68	2.64 3.35
SOLVENCY MEASURES			
DEBT-ASSET RATIO DEBT-EQUITY RATIO	0.28 0.21	0.5 0.77	0.73 1.76
PROFITABLITIY MEASURE	S		
RETURN ON EQUITY(%) RETURN ON ASSETS(%) PROFIT MARGIN RATIO	0.76 2.92 0.12	6.06 5.38 0.24	12.99 8.25 0.33
EFFICIENCY MEASURES			
GROSS EXPENSE RATIO(*INTEREST EXPENSE(%)	%) 71.4 3.7	80.5 7.7	89.8 12.9

SECTION V

AREA SUMMARIES



AREA SUMMARIES

This Section of the 1989 Report of the Farm Financial Task Force contains a brief summary of the financial condition of the 2,652 Technical College farm program participants. This data is presented by area, by farm enterprise and by farm size. The accompanying Figures show the boundaries of each of the Areas.

Major farm enterprises were determined by the proportion of total cash farm receipts contributed by a given enterprise or combination of enterprises. If 75 percent, or more, of total receipts were contributed by an enterprise, it was classified accordingly.

Farm size was determined by the level of total cash farm receipts. Two sizes were determined: one, less than or equal to \$150,000 and the other, greater than \$150,000 in total cash farm receipts. (See Figure 5, Appendix B, page 44).

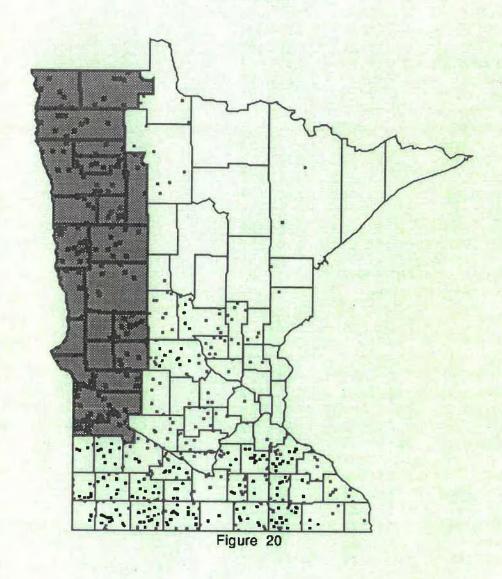
Table 16, below, reveals the distribution of operators by area, enterprise and size of operation. As seen, cash crop farms predominate in Area 1, dairy operations in Area 2 and 3, and crop-swine units in Area 4. Because of the relatively few operators from Area 2, only a summary of the dairy operations is presented.

Table 19
DISTRIBUTION OF FARM OPERATORS
BY
AREA, ENTERPRISE AND FARM SIZE
(Number of Operators)

ENTERPRISE/SIZE	AREA 1	AREA 2	AREA 3	AREA 4	TOTAL
Crops					
< \$150,000	157	11	44	157	369
> \$150,000	143	4	29	82	258
Dairy					
< \$150,000	140	60	253	32	485
> \$150,000	26	23	8 4	22	155
Crops-Dairy					
< \$150,000	43	3	49	51	146
> \$150,000	25	5	75	53	158
Crops-Swine					
< \$150,000	48	4	49	128	229
> \$150,000	28	1	62	175	266
Other					
< \$150,000	92	35	68	120	315
> \$150,000	74	<u>6</u>	80	111	271
AREA TOTAL	776	152	793	931	2652

WEST-NORTHWEST AREA SUMMARY

AREA 1



SUMMARY INCOME STATEMENT 1988

	\$150.000	>\$150.000
	(N=146)	(N=129)
ITEM		
Operating Receipts	\$88,234	\$276,961
Operating Exp. b/f Int	\$62,383	\$186,322
Interest Expense	\$7,885	\$21,459
NET CASH OPERATING INC	\$17,965	\$69,180
Depreciation Expense	\$7,983	\$19,760
Change in Value of Inv.	\$7,663	\$14,254
Extra Ordinary Income		
Sale of Assets	\$333	
Debt Forgiveness	\$713	\$801
BEFORE TAX RETURN	\$18,691	\$64,475
Inc Tax Paid (1987)	\$1,633	\$3,668
AFTER TAX RETURN	\$17,058	\$60,807
Off-Farm Income	\$10,062	\$8,636
Withdrawls (Fam Living)	\$17.088	\$28,462
ADD TO OWNER EQUITY	\$10,031	\$40,982

Table 21 SUMMARY BALANCE SHEET Dec. 31, 1988

	< \$150,000	>\$150,000
ITEM	(N=146)	(N=129)
ASSETS		
Current Assets	\$51,125	\$141,950
Intermediate Assets	\$49,449	\$135,681
Long-Term Assets	\$116,233	\$285.462
Total Bus Assets	\$216,808	\$563,074
Personal Assets	\$33.023	\$73.085
TOTAL ASSETS	\$249,831	\$636,159
LIABILITIES		
Current Liabilities	\$24,094	\$53,224
Intermediate Liabilities	\$41,198	\$72,054
Long-Term Liabilities	\$71.507	\$149.587
Total Bus Liabilities	\$136,799	\$274,865
Personal Liabilities	\$2.979	\$7.011
TOTAL LIABILITIES	\$139,779	\$281,877
EQUITY		
Business Equity	\$80,008	\$288,209
TOTAL EQUITY	\$110,052	\$354,282
TOT LIAB & OWNER EQUITY	\$249,831	\$636,159
RATIOS:		
Current Ratio ¹	2.06	2.88
Working Capital Ratio ²	1.55	2.42
Debt-Asset Ratio ³	0.56	0.43

¹ Current assets divided by current liabilities.

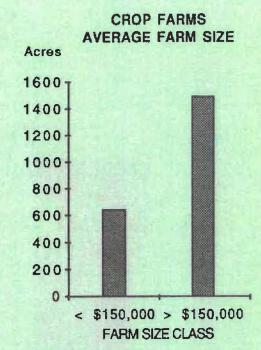


Figure 21

In comparing the larger operations with the smaller, there is about an 850 acre difference in farm size; receipts and expenses are approximately 3 times greater; the addition to owners equity is 4 times greater; assets and liabilities are about 2.5 times larger and owners equity is 3 times greater.

In comparing the ratios, the larger operations reflect greater liquidity and have a lower debt-asset ratio.

² Current plus intermediate assets divided by current plus intermediate liabilities.

³ Total liabilities divided by total assets.

CROP - DAIRY FARMS

Table 22 SUMMARY INCOME STATEMENT 1988

1900				
	<\$150,000	>\$150,000		
	(N=41)	(N=24)		
ITEM				
Operating Receipts	\$97,808	\$240,912		
Operating Exp. b/f Int	\$59,281	\$148,101		
Interest Expense	\$9.653	\$26.541		
NET CASH OPERATING IN	C \$28,875	\$66,269		
Depreciation Expense	\$7,994	\$23,098		
Change in Value of Inv.	\$9,066	\$11,023		
Extra Ordinary Income				
Sale of Assets				
Debt Forgiveness	- L			
BEFORE TAX RETURN	\$29,947	\$54,194		
Inc Tax Paid (1987)	\$1.870	\$1.235		
AFTER TAX RETURN	\$28,076	\$52,959		
Off-Farm Income	\$8,061	\$5,283		
Withdrawls (Fam Living)	\$13.844	\$30.503		
ADD TO OWNER EQUITY	\$22,293	\$27,739		
Table 23				
SUMMARY BALANCE SHEET				
D 04 4000				

Dec. 31, 1988

	<\$150,000	>\$150,000
ITEM	(N=43)	(N=25)
<u>ASSETS</u>		The second
Current Assets	\$45,036	\$99,946
Intermediate Assets	\$69,041	\$162,654
Long-Term Assets	\$118,793	\$247.184
Total Bus Assets	\$232,870	\$509,785
Personal Assets	\$28,132	\$41.197
TOTAL ASSETS	\$261,002	\$550,981
LIABILITIES		
Current Liabilities	\$17,002	\$40,385
Intermediate Liabilities	\$50,904	\$143,496
Long-Term Liabilities	\$76.933	\$148,658
Total Bus Liabilities	\$144,839	\$332,540
Personal Liabilities	\$2.455	\$343
TOTAL LIABILITIES	\$147,294	\$332,883
EQUITY		
Business Equity	\$88,031	\$177,245
TOTAL EQUITY	\$113,708	\$218,098
TOT LIAB & OWNER EQUITY	\$261,002	\$550,981
RATIOS:		
Current Ratio ¹	2.65	2.47
Working Capital Ratio ²	1.68	1.43
Debt-Asset Ratio ³	0.56	0.60

Current assets divided by current liabilities.



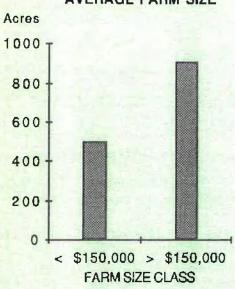


Figure 22

There is approximately a 400 acre difference in farm size in comparing the larger farming operations with the smaller ones; receipts and expenses are 2.5 times greater but the addition to owners equity is only slightly higher.

Assets and liabilities are about twice as large, as is owners equity.

Neither size of unit reflects a great deal of financial flexibility in comparing the ratios and the larger units have a higher debtasset ratio.

² Current plus intermediate assets divided by current plus intermediate liabilities.

³ Total liabilities divided by total assets.

Table 24 SUMMARY INCOME STATEMENT 1988

	<\$150.000	>\$150,000
	(N=135)	(N=22)
ITEM		
Operating Receipts	\$93,909	\$190,980
Operating Exp. b/f Int	\$56,726	\$125,441
Interest Expense	\$10.148	\$17.650
NET CASH OPERATING INC	\$26,534	\$47,889
Depreciation Expense	\$8,623	\$20,832
Change in Value of Inv.	\$932	\$1,868
Extra Ordinary Income		
Sale of Assets	\$89	
Debt Forgiveness	\$202	
BEFORE TAX RETURN	\$19,134	\$28,925
Inc Tax Paid (1987)	\$615	\$400
AFTER TAX RETURN	\$18,518	\$28,525
Off-Farm Income	\$6,012	\$4,304
Withdrawls (Fam Living)	\$13,871	\$17,802
ADD TO OWNER EQUITY	\$10,659	\$15,026

Table 25 SUMMARY BALANCE SHEET Dec. 31, 1988

	<\$150.000	>\$150.000
ITEM	(N=135)	(N=22)
ASSETS		
Current Assets	\$32,072	\$69,914
Intermediate Assets	\$76,510	\$140,707
Long-Term Assets	\$96.673	\$187.037
Total Bus Assets	\$205,255	\$397,658
Personal Assets	\$23.199	\$25.428
TOTAL ASSETS	\$228,455	\$423,087
LIABILITIES		
Current Liabilities	\$14,356	\$40,239
Intermediate Liabilities	\$46,534	\$87,224
Long-Term Liabilities	\$73.186	\$170.264
Total Bus Liabilities	\$134,076	\$297,727
Personal Liabilities	\$2.751	\$896
TOTAL LIABILITIES	\$136,827	\$298,623
EQUITY		
Business Equity	\$71,179	\$99,931
TOTAL EQUITY	\$91,628	\$124,464
TOT LIAB & OWNER EQUITY	\$228,455	\$423,087
RATIOS:		
Current Ratio ¹	2.31	2.33
Working Capital Ratio ²	1.83	2.06
Debt-Asset Ratio ³	0.58	0.58
Dent-Waser Mario.	0.50	0.50

¹ Current assets divided by current liabilities.

DAIRY FARMS AVERAGE FARM SIZE

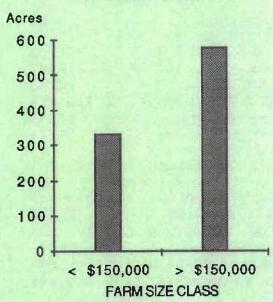


Figure 23

There is about a 250 acre difference in farm size between the larger and smaller operations. Receipts, expenses and net cash farm income of the larger units are about twice that of the smaller units.

The same is true about the relationship between assets and liabilities and owners equity is nearly 1.5 times greater for the larger operations.

In comparing the financial ratios, both sizes are very similar to one another.

² Current plus intermediate assets divided by current plus intermediate liabilities.

³ Total liabilities divided by total assets.

Table 26 SUMMARY INCOME STATEMENT 1988

	<\$150,000	>\$150.000
	(N=43)	(N=28)
ITEM		
Operating Receipts	\$92,392	\$228,611
Operating Exp. b/f Int	\$64,492	\$146,895
Interest Expense	\$6.839	\$14.991
NET CASH OPERATING IN	C \$21,061	\$66,724
Depreciation Expense	\$8,613	\$19,214
Change in Value of Inv.	\$2,323	\$(5,997)
Extra Ordinary Income		
Sale of Assets		
Debt Forgiveness	\$11	\$3.928
BEFORE TAX RETURN	\$14,782	\$45,442
Inc Tax Paid (1987)	\$1.800	\$3,464
AFTER TAX RETURN	\$12,982	\$41,978
Off-Farm Income	\$8,577	\$6,779
Withdrawls (Fam Living)	\$16.425	\$25.425
ADD TO OWNER EQUITY	\$5,135	\$23,331

Table 27 SUMMARY BALANCE SHEET Dec. 31, 1988

	<\$150.000	>\$150.000
ITEM	(N=48)	(N=28)
<u>ASSETS</u>		
Current Assets	\$36,039	\$91,434
Intermediate Assets	\$42,688	\$73,434
Long-Term Assets	\$81.181	\$200.622
Total Bus Assets	\$159,908	\$365,489
Personal Assets	\$34,096	\$49,529
TOTAL ASSETS	\$194,005	\$415,018
LIABILITIES		
Current Liabilities	\$16,696	\$33,144
Intermediate Liabilities	\$46,508	\$66,254
Long-Term Liabilities	\$73.028	\$114.722
Total Bus Liabilities	\$136,232	\$214,120
Personal Liabilities	\$1.542	\$4.441
TOTAL LIABILITIES	\$137,774	\$218,561
EQUITY		
Business Equity	\$23,676	\$151,370
TOTAL EQUITY	\$56,231	\$196,457
TOT LIAB & OWNER EQUITY	\$194,005	\$415,018
RATIOS:		
Current Ratio ¹	2.16	2.76
Working Capital Ratio ²	1.24	1.66
Debt-Asset Ratio ³	0.71	0.53

¹ Current assets divided by current liabilities.

CROP-SWINE FARMS AVERAGE FARM SIZE

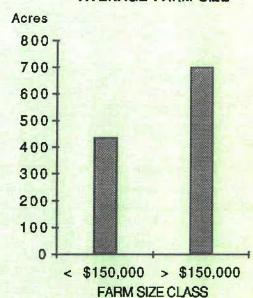


Figure 24

While there is only a 275 acre difference in farm size between the two sizes of operations, net cash farm income is 3 times greater for the larger units and the addition to owners equity is nearly 5 times greater.

Assets and liabilities are 1.5 to 2.5 times greater for the larger farms and net worth is 3.5 times greater.

In comparing the ratios, liquidity for both sizes is tight, but the larger units are in a better solvency position.

² Current plus intermediate assets divided by current plus intermediate liabilities.

³ Total liabilities divided by total assets.

Table 28 SUMMARY INCOME STATEMENT 1 9 8 8

	<\$150.000	>\$150.000
	(N=87)	(N=63)
ITEM		
Operating Receipts	\$81,020	\$360,450
Operating Exp. b/f Int	\$49,183	\$205,717
Interest Expense	\$8.421	\$30.236
NET CASH OPERATING IN	C \$23,416	124,497
Depreciation Expense	\$7,278	\$21,378
Change in Value of Inv.	\$9,341	\$32,077
Extra Ordinary Income		
Sale of Assets	\$246	
Debt Forgiveness	<u>\$</u>	\$1.016
BEFORE TAX RETURN	\$25,376	136,213
Inc Tax Paid (1987)	\$1.064	\$3,158
AFTER TAX RETURN	\$24,312	133,054
Off-Farm Income	\$10,626	\$10,783
Withdrawls (Fam Living)	\$14.238	\$24.722
ADD TO OWNER EQUITY	\$20,699	119,115

Table 29 SUMMARY BALANCE SHEET Dec. 31, 1988

	< \$150,000	>\$150.000
ITEM	(N=87)	(N=63)
ASSETS		
Current Assets	\$47,105	\$190,027
Intermediate Assets	\$57,387	\$138,199
Long-Term Assets	\$107,756	\$307.136
Total Bus Assets	\$212,248	\$635,362
Personal Assets	\$30,706	\$59,639
TOTAL ASSETS	\$242,954	\$695,001
LIABILITIES		
Current Liabilities	\$26,299	\$90,837
Intermediate Liabilities	\$36,756	\$103,977
Long-Term Liabilities	\$62,422	\$182.284
Total Bus Liabilities	\$125,478	\$377,098
Personal Liabilities	\$4.514	\$2,625
TOTAL LIABILITIES	\$129,992	\$379,723
EQUITY		
Business Equity	\$86,771	\$258,264
TOTAL EQUITY	\$112,962	\$315,278
TOT LIAB & OWNER EQUITY	\$242,954	\$895,001
BATIOS:		
Current Ratio ¹	1.75	2.03
Working Capital Ratio ²	1.65	1.64
Debt-Asset Ratio ³	0.54	0.54

¹ Current assets divided by current liabilities.

ALL OTHER FARMS AVERAGE FARM SIZE

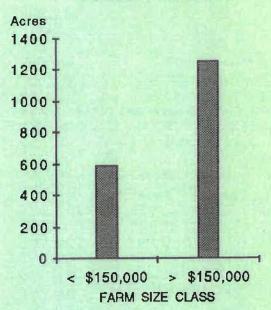


Figure 25

In comparing the larger operations with the smaller, there is about an 650 acre difference in farm size; receipts and expenses are approximately 3-4 times greater; the addition to owners equity is 5 times greater; assets, liabilities and owners equity is nearly 3 times greater.

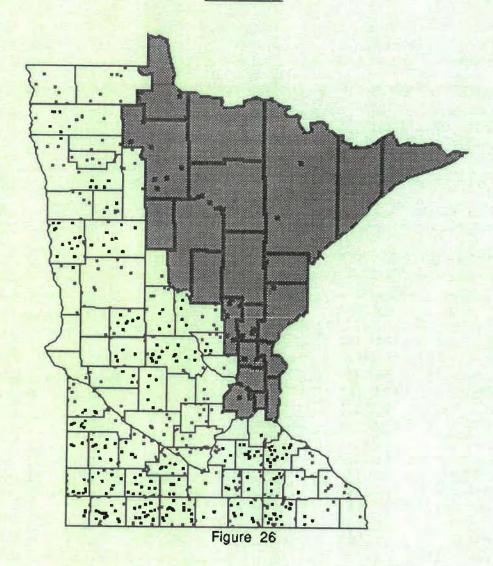
In comparing the financial ratios, there is not a significant difference between the two groups of operators.

² Current plus intermediate assets divided by current plus intermediate liabilities.

³ Total liabilities divided by total assets.

NORTH-NORTHEAST AREA SUMMARY

AREA 2



DAIRY FARMS

Table 30 SUMMARY INCOME STATEMENT 1 9 8 8

<u><\$</u>	150,000	>\$150.000
	(N=60)	(N=23)
ITEM		
Operating Receipts	\$92,391	\$205,196
Operating Exp. b/f Int	\$62,044	\$126,220
Interest Expense	\$8.162	\$18.317
NET CASH OPERATING INC	\$22,186	\$60,659
Depreciation Expense	\$8,782	\$16,622
Change in Value of Inv.	\$4,522	\$8,095
Extra Ordinary Income		
Sale of Assets	#./#:	
Debt Forgiveness		
BEFORE TAX RETURN	\$17,926	\$52,131
Inc Tax Paid (1987)	\$1.033	\$1.386
AFTER TAX RETURN	\$16,893	\$50,746
Off-Farm Income	\$7,548	\$2,563
Withdrawls (Fam Living)	\$14.988	\$20.242
ADD TO OWNER EQUITY	\$9,454	\$33,066

Table 31 SUMMARY BALANCE SHEET Dec. 31, 1988

Dec. 01	, 1000	
	<\$150,000	>\$150,000
ITEM	(N=60)	(N=23)
ASSETS		
Current Assets	\$31,757	\$73,243
Intermediate Assets	\$79,420	\$166,531
Long-Term Assets	\$91.388	\$167.456
Total Bus Assets	\$202,566	\$407,231
Personal Assets	\$44.572	\$49.520
TOTAL ASSETS	\$247,138	\$456,751
LIABILITIES		
Current Liabilities	\$16,702	\$24,682
Intermediate Liabilities	\$55,723	\$87,117
Long-Term Liabilities	\$71.505	\$103.730
Total Bus Liabilities	\$143,930	\$215,528
Personal Liabilities	\$1.179	\$2,697
TOTAL LIABILITIES	\$145,109	\$218,226
EQUITY		
Business Equity	\$58,636	\$191,702
TOTAL EQUITY	\$102,029	\$238,525
TOT LIAB & OWNER EQUITY	\$247,138	\$456,751
RATIOS:		
Current Ratio ¹	1.87	3.15
Working Capital Ratio ²	1.52	2.19
Debt-Asset Ratio ³	0.59	0.47
Dobt Hosel Hatio		

¹ Current assets divided by current liabilities.

DAIRY FARMS AVERAGE FARM SIZE

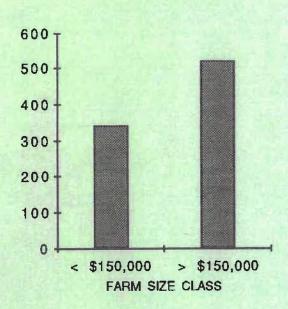


Figure 27

On average, the larger dairy operators farm about 180 acres more land than the smaller ones. Their receipts and expenses are about twice the size of the smaller units and the Addition to Owners Equity is over 3.5 times greater.

Asset holdings of the larger units are about twice the size of the smaller farms, while liabilites are about 1.5 times as great. Total Equity of the larger units is over twice that of the smaller operations.

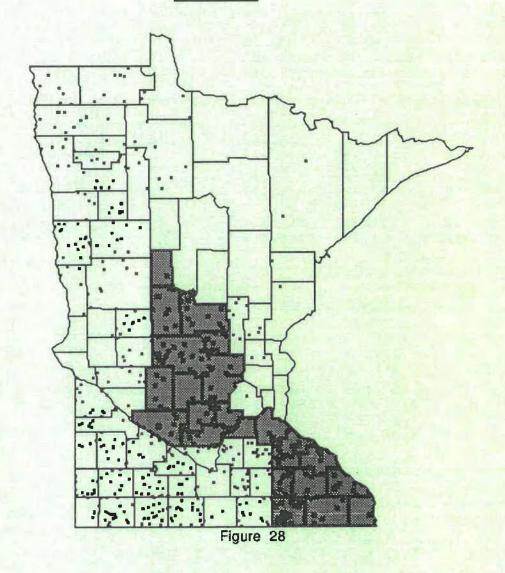
The differences in the financial ratios reveals the tightness of the liquidity position of the smaller dairy units, and they are carrying a heavier debt load relative to their asset holdings.

² Current plus intermediate assets divided by current plus intermediate liabilities.

³ Total liabilities divided by total assets.

CENTRAL-SOUTHEAST AREA SUMMARY

AREA 3



CROP FARMS

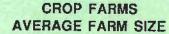
Table 32

SUMMARY INCOME	SIAIEME	41
	1988	
	<\$150.000	>\$150,000
	(N=41)	(N=25)
ITEM		
Operating Receipts	\$86,139	\$247,571
Operating Exp. b/f Int	\$63,464	\$145,907
Interest Expense	\$8.470	\$22,029
NET CASH OPERATING INC	\$14,205	\$79,635
Depreciation Expense	\$10,700	\$24,281
Change in Value of Inv.	\$7,725	\$15,343
Extra Ordinary Income		
Sale of Assets	1 1 1	\$3,004
Debt Forgiveness	· -	\$3.004
BEFORE TAX RETURN	\$11,231	\$76,705
Inc Tax Paid (1987)	\$2,637	\$6.467
AFTER TAX RETURN	\$8,594	\$70,237
Off-Farm Income	\$10,971	\$12,246
Withdrawls (Fam Living)	\$17.648	\$24,473
ADD TO OWNER EQUITY	\$1,916	\$58,010

Table 33 SUMMARY BALANCE SHEET Dec. 31, 1988

	<\$150,000	>\$150.000
ITEM	(N=41)	(N=25)
ASSETS		
Current Assets	\$73,629	\$179,169
Intermediate Assets	\$47,414	\$80,148
Long-Term Assets	\$123.998	\$249.707
Total Bus Assets	\$245,040	\$509,024
Personal Assets	\$45.166	\$45.003
TOTAL ASSETS	\$290,207	\$554,027
LIABILITIES		
Current Liabilities	\$20,299	\$27,298
Intermediate Liabilities	\$35,603	\$79,651
Long-Term Liabilities	\$73.506	\$157,016
Total Bus Liabilities	\$129,409	\$263,965
Personal Liabilities	\$7.212	\$3.528
TOTAL LIABILITIES	\$136,621	\$267,493
EQUITY		
Business Equity	\$115,631	\$245,059
TOTAL EQUITY	\$153,586	\$286,534
TOT LIAB & OWNER EQUITY	\$290,207	\$554,027
RATIOS:		
Current Ratio ¹	3.67	8.11
Working Capital Ratio ²	2.26	2.29
Debt-Asset Ratio ³	0.45	0.48
	To the second second	Was all the second

¹ Current assets divided by current liabilities.



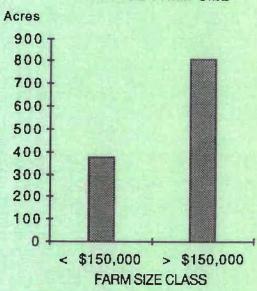


Figure 29

There is about a 425 acre difference is farm size between the two sizes of units. The difference in net farm income and the addition to owner equity between the two sizes is quite dramatic.

Assets, liabilities and owners equity for the larger units is about twice that of the smaller operations.

In comparing the ratios, the larger farms reflect a greater degree of liquidity, but both show a relatively good solvency position.

Current plus intermediate assets divided by current plus intermediate liabilities.

³ Total liabilities divided by total assets.

Table 34 SUMMARY INCOME STATEMENT 1988

	<\$150,000	>\$150.000
	(N=46)	(N=69)
ITEM		
Operating Receipts	\$95,247	\$225,306
Operating Exp. b/f Int	\$56,530	\$137,872
Interest Expense	\$9,818	\$20.247
NET CASH OPERATING INC	\$28,898	\$67,186
Depreciation Expense	\$10,265	\$19,554
Change in Value of Inv.	\$5,296	\$7,776
Extra Ordinary Income		
Sale of Assets		
Debt Forgiveness		\$290
BEFORE TAX RETURN	\$23,930	\$55,698
Inc Tax Paid (1987)	\$1,666	\$3,156
AFTER TAX RETURN	\$22,264	\$52,542
Off-Farm Income	\$6,773	\$5,541
Withdrawls (Fam Living)	\$15.164	\$21,750
ADD TO OWNER EQUITY	\$13,873	\$36,333

Table 35 SUMMARY BALANCE SHEET Dec. 31, 1988

	<\$150,000	>\$150,000
ITEM	(N=46)	(N=69)
ASSETS		
Current Assets	\$49,672	\$112,189
Intermediate Assets	\$65,549	\$145,453
Long-Term Assets	\$105.151	\$195,236
Total Bus Assets	\$220,373	\$452,873
Personal Assets	\$31,625	\$40.372
TOTAL ASSETS	\$251,998	\$493,245
LIABILITIES		
Current Liabilities	\$10,774	\$24,049
Intermediate Liabilities	\$43,151	\$78,098
Long-Term Liabilities	\$86.956	\$145.308
Total Bus Liabilities	\$140,881	\$247,454
Personal Liabilities	\$9.792	\$2,430
TOTAL LIABILITIES	\$150,673	\$249,884
EQUITY		
Business Equity	\$79,492	\$205,418
TOTAL EQUITY	\$101,324	\$243,361
TOT LIAB & OWNER EOUITY	\$251,998	\$493,245
RATIOS:		
Current Ratio ¹	4.75	4.86
Working Capital Ratio ²	2.09	2.50
Debt-Asset Ratio ³	0.59	0.51
Deut-Naset Hallu-	0.55	0.51

¹ Current assets divided by current liabilities.

CROP-DAIRY FARMS AVERAGE FARM SIZE

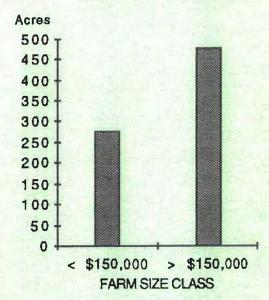


Figure 30

In comparing the larger operations with the smaller ones, receipts, expenditures, net operating income and the addition to owners equity are about 2.5 times greater.

Assets and liabilities are 1.5 times greater and net worth is over twice as large.

The larger operations reflect slightly more liquidity in comparing the ratios and both sizes of units have a higher debt-asset ratio compared to cash crop operations.

² Current plus intermediate assets divided by current plus intermediate liabilities.

³ Total liabilities divided by total assets.

DAIRY FARMS

Table 36 SUMMARY INCOME STATEMENT 1988

	<\$150,000	>\$150,000
	(N=234)	(N=77)
ITEM		
Operating Receipts	\$99,202	\$243,518
Operating Exp. b/f Int	\$60,351	\$152,656
Interest Expense	\$10.615	\$22.775
NET CASH OPERATING	INC \$28,235	\$68,087
Depreciation Expense	\$8,668	\$22,680
Change in Value of Inv.	\$957	\$8,229
Extra Ordinary Income		
Sale of Assets		
Debt Forgiveness	\$115	\$13
BEFORE TAX RETURN	\$20,640	\$53,649
Inc Tax Paid (1987)	\$1.050	\$2,299
AFTER TAX RETURN	\$19,589	\$51,350
Off-Farm Income	\$4,972	\$4,638
Withdrawls (Fam Living)	\$13.921	\$19.964
ADD TO OWNER EQUITY	\$10,640	\$36,023

Table 37 SUMMARY BALANCE SHEET Dec. 31, 1988

	<\$150,000	>\$150.000
ITEM	(N=234)	(N=77)
ASSETS		
Current Assets	\$35,725	\$94,625
Intermediate Assets	\$74,964	\$186,535
Long-Term Assets	\$85.362	\$231.734
Total Bus Assets	\$196,051	\$512,894
Personal Assets	\$28.249	\$42.245
TOTAL ASSETS	\$224,300	\$555,140
LIABILITIES		
Current Liabilities	\$13,097	\$23,528
Intermediate Liabilities	\$50,817	\$87,199
Long-Term Liabilities	\$74.568	\$169,620
Total Bus Liabilities	\$138,482	\$280,347
Personal Liabilities	\$1.796	\$833
TOTAL LIABILITIES	\$140,279	\$281,180
EQUITY		
Business Equity	\$57,569	\$232,547
TOTAL EQUITY	\$84,021	\$273,959
TOT LIAB & OWNER EQUITY	\$224,300	\$555,140
RATIOS:		
Current Ratio ¹	2.76	4.05
Working Capital Ratio ²	1.78	2.59
Debt-Asset Ratio ³	0.61	0.49
Dept-Addet Platto	0,01	0.10

¹ Current assets divided by current liabilities.

DAIRY FARMS AVERAGE FARM SIZE

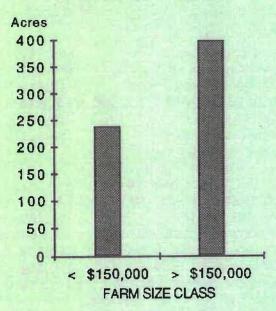


Figure 31

The number of smaller operations in this Area Summary is 3 times that of the larger units and reflect a much tighter financial situation. Receipts, expenses and net farm income is less than one-half that of the larger units and the addition to owner equity is less than one-third.

Assets and liabilities of the smaller farms are about one-half the size of the larger ones and their net worth is less than one-third of that of the larger units.

The differences in the ratios reveals the tightness of the liquidity and solvency position of the smaller dairy units.

² Current plus intermediate assets divided by current plus intermediate liabilities.

³ Total liabilities divided by total assets.

Table 38 SUMMARY INCOME STATEMENT 1988

	<\$150,000	>\$150.000
	(N=45)	(N=58)
ITEM		
Operating Receipts	\$95,247	\$225,306
Operating Exp. b/f Int	\$56,530	\$137,872
Interest Expense	\$9.818	\$20.247
NET CASH OPERATING IN	C \$28,898	\$67,186
Depreciation Expense	\$10,265	\$19,554
Change in Value of Inv.	\$5,298	\$7,776
Extra Ordinary Income		
Sale of Assets		THE .
Debt Forgiveness		\$290
BEFORE TAX RETURN	\$23,930	\$55,698
Inc Tax Paid (1987)	\$1,666	\$3,156
AFTER TAX RETURN	\$22,264	\$52,542
Off-Farm Income	\$6,773	\$5,541
Withdrawls (Fam Living)	\$15.164	\$21.750
ADD TO OWNER EQUITY	\$13,873	\$36,333

Table 39 SUMMARY BALANCE SHEET Dec. 31, 1988

	<\$150.000	>\$150,000
ITEM	(N=45)	(N=58)
ASSETS		
Current Assets	\$49,672	\$112,189
Intermediate Assets	\$65,549	\$145,453
Long-Term Assets	\$105.151	\$195,236
Total Bus Assets	\$220,373	\$452,873
Personal Assets	\$31.625	\$40.372
TOTAL ASSETS	\$251,998	\$493,245
LIABILITIES		
Current Liabilities	\$10,774	\$24,049
Intermediate Liabilities	\$43,151	\$78,098
Long-Term Liabilities	\$86.956	\$145.308
Total Bus Liabilities	\$140,881	\$247,454
Personal Liabilities	\$9.792	\$2,430
TOTAL LIABILITIES	\$150,673	\$249,884
EQUITY		
Business Equity	\$79,492	\$205,418
TOTAL EQUITY	\$101,324	\$243,361
TOT LIAB & OWNER EQUITY	\$251,998	\$493,245
RATIOS:		
Current Ratio ¹	4.75	4.86
Working Capital Ratio ²	2.09	2.50
Debt-Asset Ratio ³	0.59	0.51
Door noot natio	0.00	0.01

¹ Current assets divided by current liabilities.

CROP - SWINE FARMS AVERAGE FARM SIZE

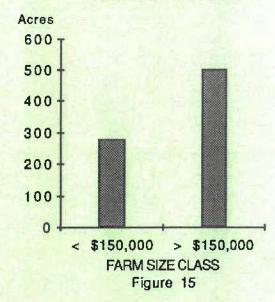


Figure 32

In comparing the larger units with the smaller operations, there is about a 225 acre difference in farm size; receipts, expenses, net cash farm income and the addition to owners equity are all about 2.5 times larger.

Assets, liabilities and owners equity are over 1.5 times greater for the larger units.

A comparison of the financial ratios for the two sets of operators reveals that the larger units have a slight edge in both their liquidity and solvency positions.

² Current plus intermediate assets divided by current plus intermediate liabilities.

³ Total liabilities divided by total assets.

ALL OTHER FARMS

	Table 40	
SUMMARY	INCOME	STATEMENT
	1988	

	<\$150.000	>\$150,000
	(N=60)	(N=65)
ITEM		
Operating Receipts	\$90,740	\$278,385
Operating Exp. b/f Int	\$56,576	\$171,438
Interest Expense	\$9.433	\$25,107
NET CASH OPERATING INC	\$24,731	\$81,840
Depreciation Expense	\$8,204	\$18,892
Change in Value of Inv.	\$6,247	\$17,073
Extra Ordinary Income		
Sale of Assets		
Debt Forgiveness		
BEFORE TAX RETURN	\$22,774	\$80,020
Inc Tax Paid (1987)	\$2.196	\$3,298
AFTER TAX RETURN	\$20,577	\$75,722
Off-Farm Income	\$10,780	\$7,130
Withdrawls (Fam Living)	\$14.129	\$19,932
ADD TO OWNER EQUITY	\$17,248	\$83,921
Table 4	1	

SUMMARY BALANCE SHEET Dec. 31, 1988

	< \$150.000	>\$150,000
ITEM	(N=60)	(N≖65)
ASSETS		
Current Assets	\$56,340	\$153,009
Intermediate Assets	\$62,967	\$111,309
Long-Term Assets	\$109.204	\$216,111
Total Bus Assets	\$228,511	\$480,425
Personal Assets	\$34.843	\$42.671
TOTAL ASSETS	\$263,354	\$523,086
LIABILITIES		
Current Liabilities	\$16,817	\$27,853
Intermediate Liabilities	\$35,334	\$96,248
Long-Term Liabilities	\$71.790	\$155.506
Total Bus Liabilities	\$123,940	\$279,605
Personal Liabilities	\$4.388	\$13.955
TOTAL LIABILITIES	\$128,329	\$293,560
EQUITY		
Business Equity	\$104,571	\$200,819
TOTAL EQUITY	\$135,025	\$229,536
TOT LIAB & OWNER EQUITY	\$263,354	\$523,096
RATIOS:		
Current Ratio ¹	3.21	5.90
Working Capital Ratio ²	2.74	2.21
Debt-Asset Ratio ³	0.49	0.54

¹ Current assets divided by current liabilities.

ALL OTHER FARMS AVERAGE FARM SIZE

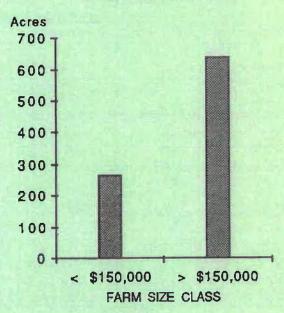


Figure 33

In comparing the larger operations with the smaller, there is about a 420 acre difference in farm size; receipts and expenses are approximately 3-4 times greater; the addition to owners equity is over 3 times greater; assets, liabilities and owners equity is approximately twice as great.

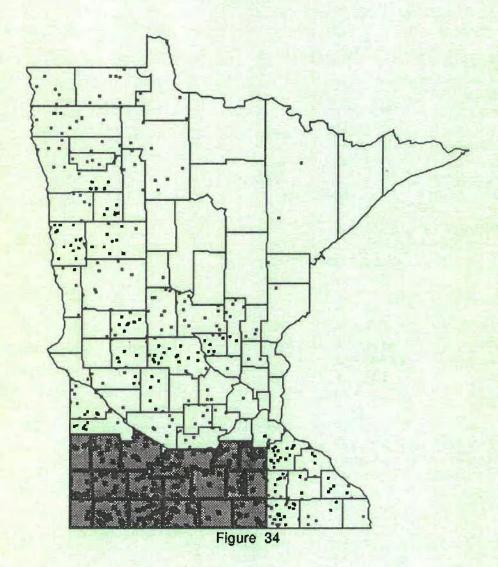
In comparing the financial ratios, both groups of operators are in a relatively strong position.

² Current plus intermediate assets divided by current plus intermediate liabilities.

³ Total liabilities divided by total assets.

SOUTH-SOUTHWEST AREA SUMMARY

AREA 4



CROP FARMS

SUMMARY INCOME STATEMENT 1988

	\$150.000	>\$150,000
	(N=137)	(N=73)
ITEM		
Operating Receipts	\$83,022	\$235,953
Operating Exp. b/f Int	\$52,185	\$152,305
Interest Expense	\$7,891	\$19,461
NET CASH OPERATING INC	\$22,945	\$64,177
Depreciation Expense	\$7,422	\$17,219
Change in Value of Inv.	\$8,425	\$15,582
Extra Ordinary Income		
Sale of Assets	1 4 4	
Debt Forgiveness	<u></u>	
BEFORE TAX RETURN	\$23,948	\$62,540
Inc Tax Paid (1987)	\$2.971	\$4.824
AFTER TAX RETURN	\$20,977	\$57,717
Off-Farm Income	\$11,697	\$10,265
Withdrawls (Fam Living)	\$15.455	\$20.539
ADD TO OWNER EQUITY	\$17,219	\$47,443
Table 43	3	

SUMMARY BALANCE SHEET Dec. 31, 1988

	<\$150.000	>\$150,000
ITEM	(N=137)	(N=73)
ASSETS		
Current Assets	\$58,291	\$142,119
Intermediate Assets	\$37,984	\$81,417
Long-Term Assets	\$100.075	\$238,230
Total Bus Assets	\$196,349	\$461,766
Personal Assets	\$31.954	\$47.164
TOTAL ASSETS	\$228,303	\$508,930
LIABILITIES		
Current Liabilities	\$15,285	\$42,738
Intermediate Liabilities	\$23,977	\$65,691
Long-Term Liabilities	\$59.527	\$127.983
Total Bus Liabilities	\$98,789	\$236,412
Personal Liabilities	\$2.842	\$7.676
TOTAL LIABILITIES	\$101,631	\$244,089
EQUITY		
Business Equity	\$97,560	\$225,354
TOTAL EQUITY	\$126,672	\$264,841
TOT LIAB & OWNER EQUITY	\$228,303	\$508,930
RATIOS:		
Current Ratio ¹	3.74	3.63
Working Capital Ratio ²	2.39	2.12
Debt-Asset Ratio ³	0.45	0.47
DOOL ASSOL HELIO	0,70	7.77

¹ Current assets divided by current liabilities.

CROP FARMS AVERAGE FARM SIZE

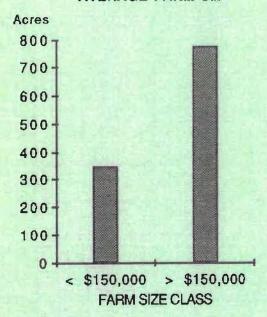


Figure 35

There is about a 400 acre difference in farm size between the two sizes of operations. Receipts, expenses, net cash operating income and the addition to owners equity are all over 2.5 times greater for the larger farming units.

Assets, liabilities and owners equity of the larger units are 2.0-2.5 times greater than the smaller ones.

A comparison of the financial ratios reveals that both sizes of operations are in a relatively good financial position in terms of liquidity and solvency.

² Current plus intermediate assets divided by current plus intermediate liabilities.

³ Total liabilities divided by total assets.

CROP - DAIRY FARMS

Table 44

SUMMARY INCOME STATEMENT 1988

ITEM (N=47)	(N=49) \$247,548
ITEM	\$247,548
11 (74)	\$247,548
Operating Receipts \$99,778	
Operating Exp. b/f Int \$58,516	\$148,244
Interest Expense \$9,982	\$23,626
NET CASH OPERATING INC \$31,280	\$75,679
Depreciation Expense \$10,029	\$27,940
Change in Value of Inv. \$3,926	\$17,302
Extra Ordinary Income	
Sale of Assets	
Debt Forgiveness	
BEFORE TAX RETURN \$25,177	\$65,040
Inc Tax Paid (1987) \$2.019	\$3.711
AFTER TAX RETURN \$23,158	\$61,330
Off-Farm Income \$5,872	\$8,016
Withdrawls (Fam Living) \$16.032	\$20,498
ADD TO OWNER EQUITY \$12,997	\$48,849

Table 45 SUMMARY BALANCE SHEET Dec. 31, 1988

	<\$150,000	>\$150,000
ITEM	(N=47)	(N=49)
ASSETS		
Current Assets	\$55,498	\$138,988
Intermediate Assets	\$70,549	\$157,988
Long-Term Assets	\$108,927	\$265,235
Total Bus Assets	\$234,975	\$562,211
Personal Assets	\$32.007	\$43.186
TOTAL ASSETS	\$266,982	\$605,397
LIABILITIES		
Current Liabilities	\$9,920	\$16,728
Intermediate Liabilities	\$34,752	\$83,258
Long-Term Liabilities	\$68.053	\$159,973
Total Bus Liabilities	\$112,725	\$259,959
Personal Liabilities	\$2.062	\$702
TOTAL LIABILITIES	\$114,787	\$260,662
EQUITY		
Business Equity	\$122,250	\$302,251
TOTAL EQUITY	\$152,195	\$349,735
TOT LIAB & OWNER EQUITY	\$266,982	\$605,397
RATIOS:		
Current Ratio ¹	5.70	8.39
Working Capital Ratio ²	2.96	2.91
Debt-Asset Ratio ³	0.42	0.44

¹ Current assets divided by current liabilities.

CROP-DAIRY FARMS AVERAGE FARM SIZE

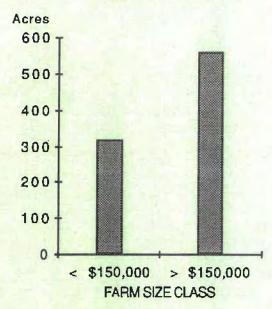


Figure 36

The larger units operate about 250 acres more than the smaller set of farms.

Receipts, expenses and net cash farm income is about 2.5 times greater for the larger farms and the addition to owners equity is nearly 4 times greater.

Assets, liabilities and owners equity for the larger operations are all over twice the level of the smaller units.

The financial ratios for both sizes of operation reflect a relatively good situation.

² Current plus intermediate assets divided by current plus intermediate liabilities.

³ Total liabilities divided by total assets.

DAIRY FARMS

Table 46 SUMMARY INCOME STATEMENT 1 9 8 8

(N=32) (N=22) ITEM Operating Receipts \$95,371 \$191,211 Operating Exp. b/f Int \$57,316 \$119,492 Interest Expense \$10.011 \$22.567 NET CASH OPERATING INC \$28,043 \$49,151		<\$150,000	>\$150,000
Operating Receipts \$95,371 \$191,211 Operating Exp. b/f Int \$57,316 \$119,492 Interest Expense \$10.011 \$22.567 NET CASH OPERATING INC \$28,043 \$49,151		(N=32)	(N=22)
Operating Exp. b/f Int \$57,316 \$119,492 Interest Expense \$10.011 \$22.567 NET CASH OPERATING INC \$28,043 \$49,151	ITEM		
Interest Expense \$10.011 \$22.567 NET CASH OPERATING INC \$28,043 \$49,151	Operating Receipts	\$95,371	\$191,211
NET CASH OPERATING INC \$28,043 \$49,151	Operating Exp. b/f Int	\$57,316	\$119,492
THE ONE OF ELLIPSE	Interest Expense	\$10.011	\$22.567
	NET CASH OPERATING	INC \$28,043	\$49,151
Depreciation Expense \$9,916 \$21,951	Depreciation Expense	\$9,916	\$21,951
Change in Value of Inv. \$3,288 \$5,063		\$3,288	\$5,063
Extra Ordinary Income	Extra Ordinary Income		
Sale of Assets	Sale of Assets		
Debt Forgiveness == ==	Debt Forgiveness		
BEFORE TAX RETURN \$21,415 \$32,264	BEFORE TAX RETURN	\$21,415	
Inc Tax Paid (1987) \$2,440 \$2.626	Inc Tax Paid (1987)	\$2,440	\$2,626
AFTER TAX RETURN \$18,975 \$29,638	AFTER TAX RETURN	\$18,975	\$29,638
Off-Farm Income \$8,236 \$5,301	Off-Farm Income	\$8,236	\$5,301
Withdrawls (Fam Living) \$14.185 \$17.683	Withdrawls (Fam Living)	\$14.185	\$17.683
ADD TO OWNER EQUITY \$13,026 \$17,257	ADD TO OWNER EQUITY	¥ \$13,026	\$17,257

Table 47 SUMMARY BALANCE SHEET Dec. 31, 1988

De	0. 01, 1000	
	<\$150,000	>\$150,000
ITEM	(N=32)	(N=22)
ASSETS		
Current Assets	\$44,806	\$85,411
Intermediate Assets	\$71,375	\$139,102
Long-Term Assets	\$103.797	\$215.462
Total Bus Assets	\$219,977	\$439,974
Personal Assets	\$27.377	\$56.053
TOTAL ASSETS	\$247,354	\$496,027
LIABILITIES		
Current Liabilities	\$9,127	\$11,351
Intermediate Liabilitie	s \$35,357	\$68,319
Long-Term Liabilities	\$60.929	\$170.820
Total Bus Liabiliti	es \$105,413	\$250,490
Personal Liabilities	\$1.975	\$1,128
TOTAL LIABILITIES	\$107,388	\$251,668
EQUITY		
Business Equity	\$114,563	\$189,484
TOTAL EQUITY	\$139,966	\$244,359
TOT LIAB & OWNER EC	QUITY \$247,354	\$496,027
RATIOS:		
Current Ratio ¹	4.91	7.52
Working Capital Ratio	2 2.61	2.82
Debt-Asset Ratio ³	0.43	0.51

¹ Current assets divided by current liabilities.

DAIRY FARMS AVERAGE FARM SIZE

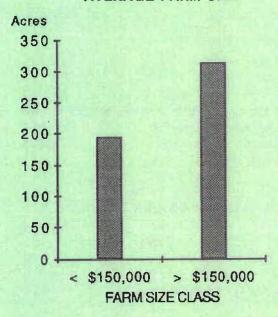


Figure 37

There is a little over a 100 acre difference in farm size between the two sizes of operation.

Receipts and expenses for the larger units are about twice that of the smaller units, but the difference in the "bottom line" is only about \$4,000.

For the larger units, assets and liabilities are about twice the size of the smaller units and the financial ratios reveal a relatively good position for both sets of operators.

² Current plus intermediate assets divided by current plus intermediate liabilities.

³ Total liabilities divided by total assets.

Table 48 SUMMARY INCOME STATEMENT 1988

	<\$150,000	>\$150,000
	(N=109)	(N=159)
ITEM	a Thu	
Operating Receipts	\$99,024	\$261,139
Operating Exp. b/f Int	\$62,452	\$165,621
Interest Expense	\$7.031	\$16,009
NET CASH OPERATING INC	\$29,540	\$79,510
Depreciation Expense	\$8,889	\$20,119
Change in Value of Inv.	\$6,090	(\$964)
Extra Ordinary Income		
Sale of Assets		\$1,258
Debt Forgiveness		\$590
BEFORE TAX RETURN	\$26,742	\$60,275
Inc Tax Paid (1987)	\$2.746	\$6.307
AFTER TAX RETURN	\$23,995	\$53,967
Off-Farm Income	\$9,946	\$8,549
Withdrawls (Fam Living)	\$16.685	\$23.217
ADD TO OWNER EQUITY	\$17,256	\$39,300
		The second secon

Table 49 SUMMARY BALANCE SHEET Dec. 31, 1988

	<\$150.000	>\$150.000
ITEM	(N=109)	(N=159)
ASSETS		T THE STATE
Current Assets	\$63,911	\$142,819
Intermediate Assets	\$40,512	\$81,341
Long-Term Assets	\$91.089	\$218,596
Total Bus Assets	\$195,512	\$442,756
Personal Assets	\$32,095	\$45.005
TOTAL ASSETS	\$227,607	\$487,761
LIABILITIES		
Current Liabilities	\$9,794	\$32,668
Intermediate Liabilities	\$31,313	\$49,263
Long-Term Liabilities	\$49,667	\$113.959
Total Bus Liabilities	\$90,774	\$195,890
Personal Liabilities	\$2.162	\$3,133
TOTAL LIABILITIES	\$92,936	\$199,023
EQUITY	AND THE REST	
Business Equity	\$104,737	\$246,866
TOTAL EQUITY	\$134,671	\$288,738
TOT LIAB & OWNER EQUITY	\$227,607	\$487,761
RATIOS:		
Current Ratio ¹	6.49	4.37
Working Capital Ratio ²	2.76	2.85
Debt-Asset Ratio ³	0.37	0.40

¹ Current assets divided by current liabilities.

CROP-SWINE FARMS AVERAGE FARM SIZE

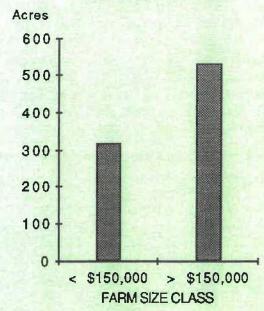


Figure 38

The larger units operate about 525 acres of land compared to 325 acres for the smaller farms.

Receipts, expenses, net cash operating income and the addition to owners equity are all 2.0-2.5 times greater for the larger sized farms.

Assets, liabilities and owners equity for the larger farms are about twice that of the smaller ones.

The financial ratios of both sets of operations reveals a relatively sound financial position.

² Current plus intermediate assets divided by current plus intermediate liabilities.

³ Total liabilities divided by total assets.

ALL OTHER FARMS

Table 50 SUMMARY INCOME STATEMENT 1 9 8 8

	\$150.000	>\$150.000
	(N=110)	(N=101)
ITEM		
Operating Receipts	\$92,459	\$306,050
Operating Exp. b/f Int	\$59,490	\$164,587
Interest Expense	\$8.284	\$19.447
NET CASH OPERATING INC	\$24,685	122,015
Depreciation Expense	\$7,394	\$17,570
Change in Value of Inv.	\$7,183	\$25,251
Extra Ordinary Income		
Sale of Assets		
Debt Forgiveness	- <u></u>	
BEFORE TAX RETURN	\$24,475	129,697
Inc Tax Paid (1987)	\$1.718	\$4.049
AFTER TAX RETURN	\$22,756	125,648
Off-Farm Income	\$10,798	\$9,894
Withdrawls (Fam Living)	\$15.648	\$22,036
ADD TO OWNER EQUITY	\$17,907	113,506

Table 51 SUMMARY BALANCE SHEET Dec. 31, 1988

, 1500	
< \$150,000	>\$150.000
(N=110)	(N=101)
\$55,182	\$176,822
\$42,580	\$92,971
\$95.061	\$216.789
\$192,823	\$486,583
\$30,155	\$45,139
\$222,979	\$531,722
\$13,371	\$55,033
\$34,900	\$73,029
\$54.553	\$109.904
\$102,825	\$237,966
\$5.678	\$3.711
\$108,503	\$241,677
\$89,999	\$248,617
\$114,476	\$290,045
\$222,979	\$531,722
4.25	3.38
2.05	2.08
0.48	0.46
	<pre>< \$150,000 (N=110) \$55,182 \$42,580 \$95,061 \$192,823 \$30,155 \$222,979 \$13,371 \$34,900 \$54,553 \$102,825 \$5,678 \$108,503 \$89,999 \$114,476 \$222,979 4.25 2.05</pre>

¹ Current assets divided by current liabilities.

ALL OTHER FARMS AVERAGE FARM SIZE

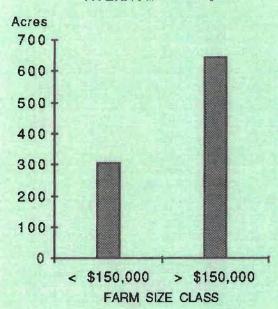


Figure 39

In comparing the larger operations with the smaller, there is about a 330 acre difference in farm size; receipts and expenses are approximately 3 times greater; the addition to owners equity is over 6 times greater; assets, liabilities and owners equity is approximately twice as great.

In comparing the financial ratios, both groups of operators are in a relatively strong position.

² Current plus intermediate assets divided by current plus intermediate liabilities.

³ Total liabilities divided by total assets.

SECTION VI

APPENDICES

- A. MINNESOTA FARM FINANCIAL SURVEY
- B. FARM OPERATOR CHARACTERICS
- C. MINNESOTA PRICES FOR CROPS & LIVESTOCK
- D. MINESOTA FARM INCOME INDICATORS
- E. MINNESOTA BALANCE SHEET & MAJOR CREDITORS
- F. MINNESOTA FARMLAND VALUES
- G. RENTER-OPERATOR vs OWNER-OPERATOR CHARACTERICS
- H. FMHA AND FCS LOAN STATUS
- I. HISTORICAL INTEREST RATES

APPENDIX A

MINNESOTA FARM FINANCIAL SURVEY

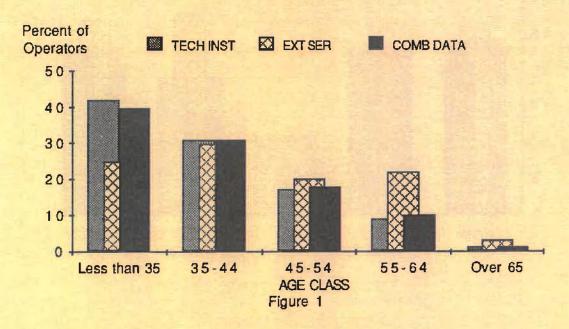
MINNESOTA DEPARTMENT OF AGRICULTURE

County of Farming Operation	2. Total Acres in 1988 Operation
	(Tillable and Nontillable) a. Owned Acres
	b. Cash RentedAcres
3. Age of Operator	c. Share RentedAcres
3. Age of Operator	d. Rented to OthersAcres
	Total Land OperatedAcres
	(a+b+c-d)
	和自己的第三人称单数是对自己的 医外侧部 医
4. Report Current Asset Values and Outsta	anding Debt on Jan. 1, 1988 and Jan. 1, 1989, below: ASSETS
	Current Market Value
	Jan. 1.1988 Jan. 1. 1989
Current Farm Bus. Assets	\$
Intermediate Farm Bus. Assets	\$
Long-Term Farm Bus. Assets	\$
Total Business Assets	\$
Personal(Non-Business) Assets	\$\$
Total Assets	\$\$_
	LIABILITIES
	Outstanding Liabilities
	Jan. 1, 1988 Jan. 1, 1989
Current Farm Bus. Debt	\$
Intermediate Farm Bus. Debt	\$
Long-Term Farm Bus. Debt	\$
<u>Total</u> Business Debt	\$
Personal (Non-Business) Debt	\$
Total Debt	\$\$
	e liquidation of assets in 1988. (Include the sale of real estate
equipment, breeding stock, etc.).	
Real Estate	
Non-Real Estate	\$
6. Debt Forgiveness. Write-downs or wri	te-offs of principal and interest.
A. Principal	
Real Estate	\$
Noп-Real Estate	\$
B. Interest	
Real Estate	\$
Non-Real Estate	\$

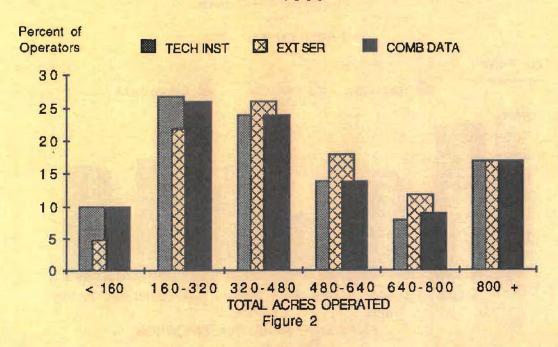
	CC "loans" on 1987 cro		n out <u>after</u> Ja		le government payments orfeited before January stock):
	Dairy Livestock	\$	tellar.		\$
	Dairy Products	\$		Govt. Payments	\$
	Poultry/Eggs	\$		Other (Farm	Related):
	Beef	\$			\$
	Swine	\$		TOTAL RECEIPTS	\$
8. Tota	al Off-Farm Income_ea	arned in 1988 by o	pperator(s) an	d/or their spouses	who work this farm.
Expens	nge in Value of Invenses, Accounts Receivatings or Land).				
	tal Cash Production E er, etc. <u>DO NOT</u> includ A. Total Depreciation	le depreciation.	\$		\$
	B. Interest Expense	for 1988			Total Paid \$
11. ln /	Addition to the Produc	tion Expenses of C	Question 10, re	ecord the Other "Fix	xed" Obligations for
		I Estate I-Real Estate enses Income Taxes	s	Total \$\$ \$\$ \$\$ \$\$	Paid
		tc.	ash Down Pay		se of real estate,
13. <u>Ma</u>		Estate -Real Estate		(Code: 1-6) (Code: 1-6)	

APPENDIX B FARM OPERATOR CHARACTERICS

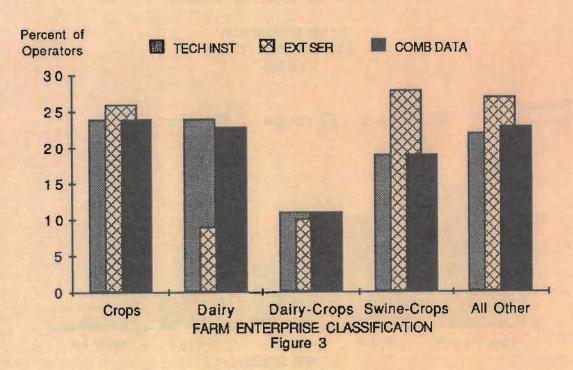
FARM OPERATOR AGE DISTRIBUTION 1988



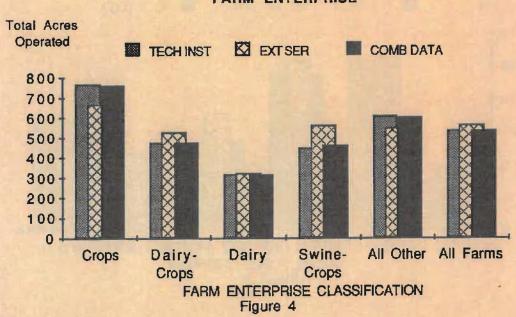
FARM SIZE DISTRIBUTION 1988



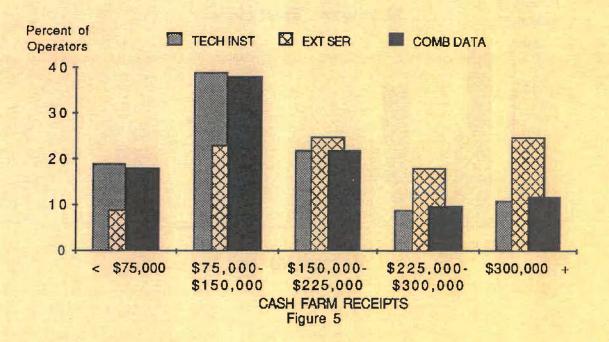
FARM ENTERPRISE DISTRIBUTION



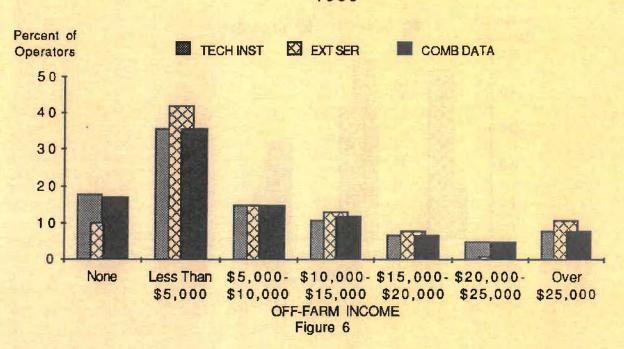
AVERAGE FARM SIZE by FARM ENTERPRISE



CASH FARM RECEIPTS DISTRIBUTION 1988



OFF-FARM INCOME DISTRIBUTION 1988



OPERATOR AGE DISTRIBUTION '88 MFFS vs '87 Census

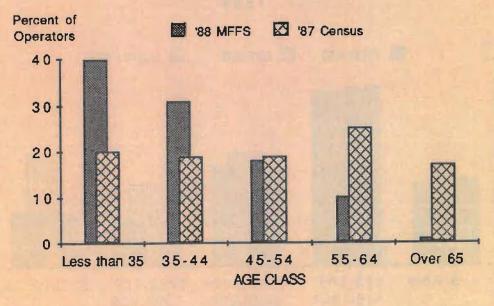


Figure 7

FARM SIZE DISTRIBUTION '88 MFFS vs '87 CENSUS

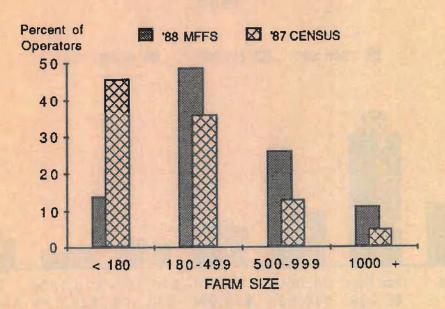


Figure 8

VALUE OF SALES DISTRIBUTION '88 MFFS vs '87 CENSUS

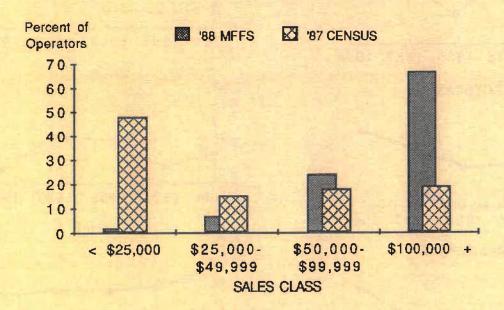
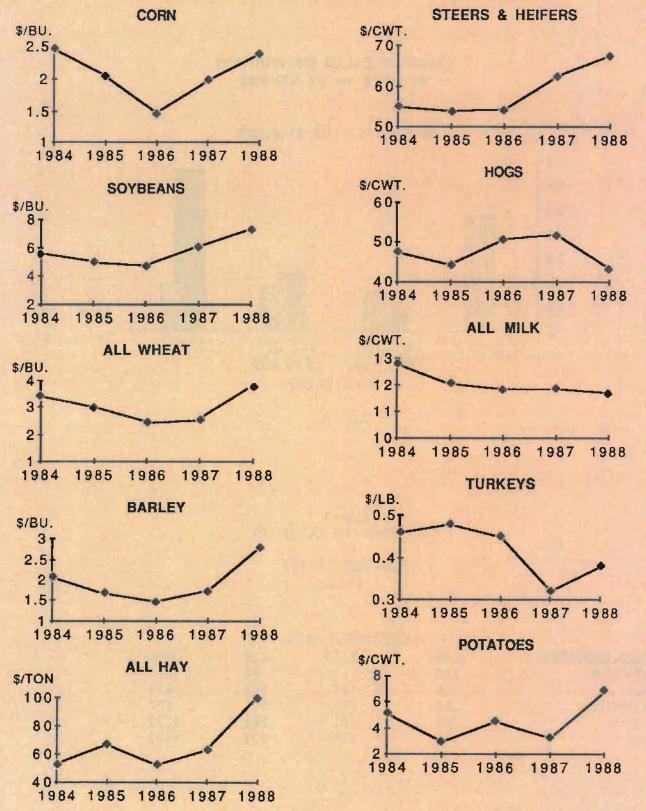


Figure 9

Table 1
FARM FINANCIAL CONDITON
BY
DEBT-ASSET RATIO
1 988

	outre with the	DEBT-ASSET RAI	10	
FINANCIAL CONDITION	< 40	40-70	> 70	Total
VERY WEAK	118	71	52	241
WEAK	50	163	305	518
MODERATE	59	232	207	498
STRONG	760	471	164	1395
Total	987	937	728	2652

APPENDIX C
MINNESOTA PRICES FOR CROPS AND LIVESTOCK



Source: Minnesota Agriculture Statistics, 1989; MINNESOTA AGRICULTURAL STATISTICS SERVICE.

APPENDIX D

MINNESOTA FARM INCOME INDICATORS

MINNESOTA FARM INCOME INDICATORS¹

	1983	1984	1985	1986	1987
			(Million Doll	ars)	
Cash Farm Receipts	\$7,118.30	\$6,699.90	\$7,229.10	\$6,965.30	\$7,149.50
Cash Production Exp.	\$5,127.80	\$5,261.10	\$4,916.00	\$4,401.00	\$4,446.00
Net Cash Farm Inc.	\$1,990.50	\$1,438.80	\$2,313.00	\$2,564.30	\$2,703.30
Off-Farm Income	\$984.20	\$1,035.00	\$1,132.60	\$1,186.80	\$1,243.40
Total Cash Income	\$2,974.70	\$2,473.80	\$3,445.60	\$3,751.10	\$3,946.70
Number of Farms	102,000	101,000	96,000	93,000	92,000
			PER FAR	<u>M</u>	
Cash Farm Receipts	\$69,787	\$66,336	#7F 000	074.000	027.740
Cash Production Exp.	\$50,273	\$52,090	\$75,303	\$74,896	\$77,712
Net Cash Farm Inc.	\$19,514	\$14,245	\$51,209	\$47,323	\$48,326
not obsit faim me.	415,514	\$14,245	\$24,094	\$27,573	\$29,384
Off-Farm Income	\$9,649	\$10,248	\$11,798	\$12,761	\$13,515
Total Cash Income	\$29,163	\$24,493	\$35,892	\$40,334	\$42,899

¹ Source: Economic Indicators of the Farm Sector, State Financial Summary, 1987; U.S. Dept. of Agriculture, Washington, D.C. The USDA defines a "farm" as a place that sells or normally sells at least \$1,000 of agricultural products annually.

MINNESOTA BALANCE SHEET AND SOURCES OF CREDIT

APPENDIX E

MINNESOTA BALANCE SHEET					
	1984	1985	1986	1987	1988
ASSETS		(Millions		A45 744	440 000
Real Estate	\$23,226	\$17,204	\$13,760	\$15,711	\$16,820 \$10,984
Nonreal Estate	\$13,034 \$36,260	\$12,686 \$29,890	\$9,912 \$23,672	\$9,901 \$25,612	\$27,804
Total	\$30,200	\$23,030	\$25,072	φ25,012	Ψ27,004
DEBTS					
Real Estate	\$5,377	\$5091	\$4,511	\$4,030	\$3,753
Nonreal Estate	\$5,689	\$5,665	\$3,240	\$2,943	\$2,925
Total	\$11,066	\$10,756	\$7,751	\$6,973	\$6,678
EQUITY	\$25,194	\$19,134	\$15,921	\$18,639	\$21,126
Debt/Asset Ratio (%)	27.4	28.5	32.7	27.2	24.1
	SOUR	CES OF FAR	M CREDIT		
	1984	1985	1986	1987	1988
REALESTATE			of Dollars)		
Farm Credit Services	\$2,698	\$2,530	\$1,927	\$1,665	\$1,522
Commercial Banks	\$372	\$389	\$418	\$489	\$579
Farmers Home Adm	\$391	\$419	\$391	\$381	\$356
Private	\$1,917	\$1,744	\$1,431	\$1,229	\$1,074 \$222
Other	\$415 \$5,793	\$396 \$5,479	\$344 \$4,511	\$266 \$4,030	\$3,753
TOTAL NONREAL ESTATE	\$5,793	\$5,479	\$4,511	\$4,050	φ3,733
Farm Credit Services	\$1,104	\$843	\$542	\$492	\$447
Commercial Banks	\$2,408	\$2,051	\$1,580	\$1,400	\$1,454
Farmers Home Adm.	\$519	\$617	\$584	\$580	\$535
Private	\$801	\$671	\$534	\$469	\$489
TOTAL	\$4,832	\$4,181	\$3,240	\$2,943	\$2,925
	PERCI	ENT OF CRE	DIT MARKE	I	
		1980	1984	1988	
REAL ESTATE		(%)	(%)	(%)	
	edit Services	38.1	46.6	40.6	
	cial Banks	5.6	6.4	15.4 9.5	
Private	Home Adm	6.2 40.6	6.7 33.1	28.6	
Other		9.5	7.2	5.9	
TOTAL		100.0	100.0	100.0	
NONREAL ES	TATE	, 53.5			
	edit Services	25.6	22.8	15.3	
	cial Banks	46.2	49.9	49.7	
	Home Adm.	9.6	10.7	18.3	
Private		18.6	16.6	16.7	
TOTAL		100.0	100.0	100.0	

Source: Economic Indicators of the Farm Sector, State Financial Summary; U.S. Dept. of Agriculture, Washingtion D.C.

APPENDIX F

MINNESOTA FARMLAND VALUES

ESTIMATED MINNESOTA FARMLAND VALUES¹ 1972-1988

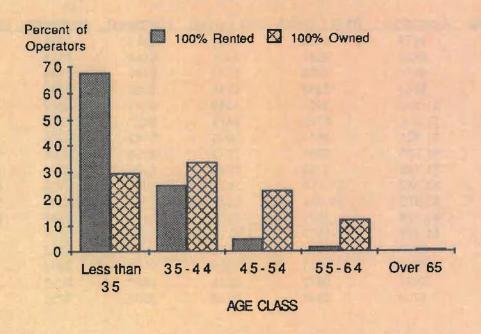
YEAR	Southeast	Southwest	West Central	East Central	Northwest	Northeast	State Average
1972	\$370	\$379	\$208	\$163	\$117	\$76	\$248
1973	\$433	\$459	\$247	\$194	\$146	\$115	\$298
1974	\$576	\$675	\$378	\$279	\$199	\$144	\$423
1975	\$674	\$844	\$503	\$296	\$295	\$163	\$525
1976	\$856	\$1,106	\$624	\$349	\$378	\$210	\$667
1977	\$1,027	\$1,316	\$730	\$415	\$427	\$279	\$794
1978	\$1,191	\$1,421	\$803	\$498	\$483	\$304	\$889
1979	\$1,453	\$1,620	\$883	\$573	\$599	\$368	\$1,040
1980	\$1,526	\$1,750	\$962	\$596	\$683	\$390	\$1,120
1981	\$1,709	\$2,083	\$1,135	\$679	\$813	\$460	\$1,310
1982	\$1,504	\$1,875	\$1,044	\$584	\$748	\$483	\$1,179
1983	\$1,354	\$1,669	\$981	\$581	\$658	\$411	\$1,065
1984	\$1,164	\$1,401	\$873	\$505	\$586	\$436	\$927
1985	\$861	\$967	\$690	\$374	\$510	\$362	\$686
1986	\$603	\$696	\$511	\$296	\$418	\$308	\$515
1987	\$558	\$671	\$472	\$259	\$375	\$293	\$480
1988	\$648	\$784	\$499	\$268	\$390	\$251	\$523

¹ Andrew Schwab and Phillip M. Raup; "The Minnesota Rural Real Estate Market in 1988"; MINNESOTA AGRICULTURAL ECONOMIST, March 1989.

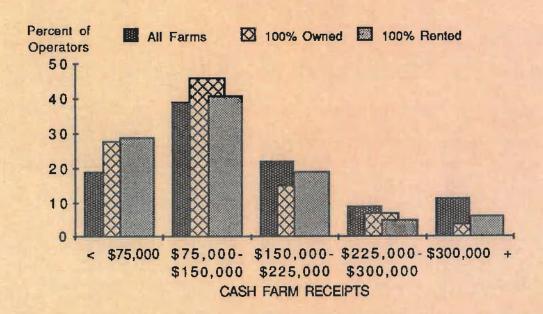
APPENDIX G

RENTER-OPERATOR vs OWNER-OPERATOR CHARACTERICS

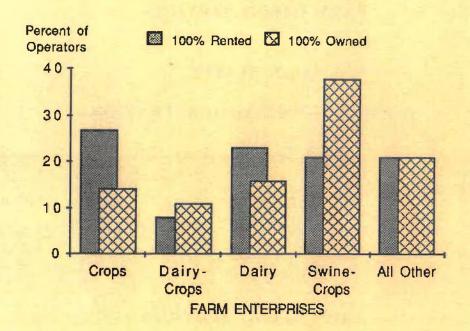
OPERATOR AGE DISTRIBUTION



CASH FARM RECEIPTS DISTRIBUTION



MAJOR FARM ENTERPRISES



DISTRIBUTION BY DEBT-ASSET RATIO

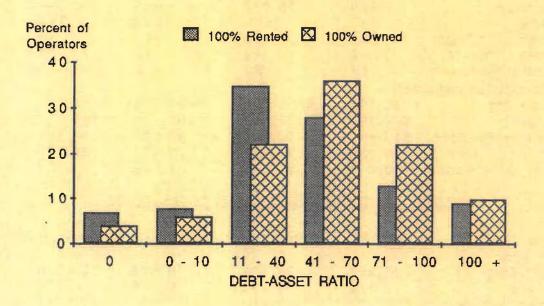


TABLE 1

	% OF OPERATORS	% TOTAL LAND OPERATED	AVE. FARM SIZE
RENTER-OPERATOR	19	12	342
OWNER-OPERATOR	19	16	431
ALL OTHER	62	72	628

APPENDIX H FARMERS HOME ADMINISTRATION AND FARM CREDIT SERVICES

LOAN STATUS

FARMERS HOME ADMINISTRATION

Total Active Borrowers Total Delinquent Borrowers Percent Delinquent (%)	Dec. 1985	Nov. 1986	Dec. 1987	Dec. 1988
	10,024	10,072	9,134	8,468
	2,922	3,327	2,820	2,778
	29.2	33.0	30.9	32.8
Total Active Loans Total Delinquent Loans Percent Delinquent (%)	27,034	26,941	23,918	22,374
	9,435	10,153	8,915	8,721
	34.9	37.7	37.3	39.0

FARM CREDIT SERVICES

PRODUCTION CREDIT ASSOCIATIONS OF MINNESOTA

	June. 1985	Sept. 1986	Sept. 1987	Sept. 1988
NUMBER OF LOANS		The same of the same of		
Loans outstanding	11,935	10,832	9,685	8,044
Delinquencies	681	1648	833	348
Bankruptcies in Process	89	110	46	35
Foreclosures in Process	62	42	35	70
Foreclosure in Bankruptcy	27	22	12	7
VOLUME OF LOANS (Thousand	Dollars)			
Loans outstanding	\$880,785	\$656,383	\$496,639	\$435,118
Delinquencies	\$70,490	\$151,650	\$65,336	\$20,065
Bankruptcies in Process	\$13,444	\$8,363	\$3,542	\$1,923
Foreclosures in Process	\$8,132	\$5,093	\$3,287	\$4,770
Foreclosure in Bankruptcy	\$3,204	\$1,884	\$1,182	\$359

FEDERAL LAND BANK ASSOCIATIONS OF MINNESOTA

	June. 1985	Sept. 1986	Sept. 198	Z Sept. 1988		
NUMBER OF LOANS						
Loans outstanding	29,803	26,231	25,384	23,378		
Delinquencies	2,179	4,423	2,745	927		
Bankruptcies in Process	90	178	141	81		
Foreclosures in Process	466	1,195	1,069	637		
Foreclosure in Bankrupto	cy 18	22	67	40		
VOLUME OF LOANS (Thousand Dollars)						
Loans outstanding	\$2,472,440	\$2,094,257	\$1,904,736	\$1,668,987		
Delinquencies	\$33,343	\$89,215	\$297,437	\$96,390		
Bankruptcies in Process	\$17,660	\$23,628	\$14,083	\$8,172		
Foreclosures in Process	\$92,268	\$177,393	\$125,441	\$66,919		
Foreclosure in Bankrupto	cy \$4,196	\$3,674	\$8,649	\$4,527		

APPENDIX I

HISTORICAL INTEREST RATE SERIES

		FEDERAL	FEDERAL INTERMEDIATE
	PRIME RATE1	LAND BANK ²	CREDIT BANK 3
	(Percent)	(Percent)	(Percent)
1973	8.03	7.50	8.20
1974	10.81	8.50	9.10
1975	7.86	8.50	7.60
1976	6.84	8.50	7.10
1977	6.83	8.25	7.30
1978	9.06	8.25	9.10
1979	12.67	9.75	11.30
1980	15.27	10.25	12.80
1981	18.87	11,50	15.10
1982	14.84	12.50	12.40
1983	10.79	11.25	10.90
1984	12.04	12.00	11,70
1985	9.93	12.75	10.70
1986	8.33	11.75	9.30
1987	8.21	10.85	8.70
1988	9.32	11.25	9.00

Source: Federal Reserve Bank of Minneapolis
 Source: Farm Credit Bank, St. Paul
 Source: Farm Credit Bank, St. Paul