Annual Report

VOCATIONAL AGRICULTURE FARM ANALYSIS

EAST SOUTH CENTRAL MINNESOTA

1969

Austin Area Vocational School

IN COOPERATION WITH

VOCATIONAL DIVISION, MINNESOTA DEPARTMENT OF EDUCATION AND AGRICULTURAL EDUCATION DEPARTMENT UNIVERSITY OF MINNESOTA

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1969 VOCATIONAL AGRICULTURE FARM ANALYSIS REPORT EAST SOUTH CENTRAL AREA - CHARLES PAINTER. COORDINATOR

INDEX

INTRODUCTION-COOPERATORS	•					1	CROP ACRES & YIELDS 15
FARM INVENTORIES						2	CROP COST SUMMARIES 16-18A
CASH RECEIPTS	•					3	LIVESTOCK COSTS-RETURNS 19
CASH EXPENSES						4	COMPLETE HOG ENTERPRISE 20
ENTERPRISE STATEMENT				•	•	5	HOG FINISHING ENTERPRISE 21
HOUSEHOLD-PERSONAL			٠	•		6	WEANING PIG ENTERPRISE 22
NET WORTH	۰		۰	۰		7	DAIRY ENTERPRISE 23-24-25
OPERATOR'S RECEIPTS			•			8	BEEF BREEDING CATTLE 26
OPERATOR'S EXPENSES	•		•			9	FEEDER CATTLE 27
WORK UNITS		•				10	SHEEP FLOCK 28
RANGE OF EARNINGS						11	LAYING FLOCK 29
MEASURES OF FARM ORGANIZA	ATI	ON		1	2-	13	LABOR EARNINGS BY FACTORS 30

INTRODUCTION

THE FIRST ANALYSIS MADE BY THE AUSTIN AREA VOCATIONAL-TECHNICAL SCHOOL WAS FOR THE YEAR 1955. THREE OTHER ANALYSIS CENTERS IN MINNESOTA WERE ALSO INVOLVED WITH ANALYSIS. A COMPLETE REORGANIZATION OF THE ANALYSIS PROGRAM IN 1967 ADDED CROP PRODUCTION COSTS AND MORE ANIMAL PRODUCTION ITEMS.

ADDITIONAL INFORMATION HAS ADDED MUCH TO THE VOLUME OF OUR REPORT NECESSITATING BREVITY IN OUR INTRODUCTION. THE ASSISTANCE AND COUNSEL PROVIDED BY THE FOLLOWING PEOPLE IS MUCH APPRECIATED: AUDREY ANHORN, MADGE ANDERSON, PATRICIA FRANCIS, NADINE POGONES, ELAINE HARBER, EILEEN HEIMSNESS, DARLENE MILLER, LYNDA PLANZ, HELEN BERGH, ARLENE BEDNAR, VIVIAN ANDERSON, DONNA QUALEY.

HARLAN KOCH, I.T. MICKELSON, MORTON CARNEY, ODELL BARDUSON, EDGAR PERSONS, MILO PETERSON, TRUMAN NODLAND. DATA PROCESSING WAS DONE BY AGRICULTURAL RECORDS COOPERATIVE, MADISON, WISCONSIN.

PARTICIPATING SCHOOLS TO DATE HAVE SUBMITTED MORE THAN 300 ACCOUNT BOOKS. THESE ARE INDICATED BELOW. BOOKS ARE STILL COMING IN.

SCHOOL	BOOK	S INSTRUCTOR	SCHOOL	BOOKS	INSTRUCTOR
ADAMS	41	DWAIN VANGSNESS	FREEBORN	3	MIKE TAYLOR
ALDEN	1	JOHN NELSON	HAYFIELD	13	BRUCE OXTON
AUSTIN	14	JOE RAINE	KENYON	12	FRANK WHITE
BLOOMING PRAIRI	E 52	GENE FRANCIS	NEW RICHLAND	12	RUSSELL SCHMEISING
		HAROLD ULRICH	NORTHFIELD	18	HAROLD PAULSON
BYRON	2	GILMAN SCHUBERT	OWATONNA	22	JOHN ZWIEBEL
ELKTON	2	LYNN LAGERSTEDT	SPRING VALLEY	7 16	JAMES ERREDGE
FARIBAULT	88	RALPH PALAN	STEWARTVILLE	7	FRANK QUAM
		ROGER WENESS	WEST CONCORD	3	WESLEY FAUSCH
,		CLARENCE ANDERSON	ZUMBROTA	1	EUGENE HUNDEBY

ELEVEN "MAIL IN" COOPERATORS ARE NOT INCLUDED IN THE ABOVE FIGURES. OTHER VOCATIONAL AGRICULTURE INSTRUCTORS IN COOPERATING SCHOOLS: LEROY SWANSON, ADAMS; DONALD RITLAND, AUSTIN; HOWARD BODE, BLOOMING PRAIRIE; PAUL DAY AND PAUL THOMAS, FARIBAULT; BERT FULLER AND FRANK MOON, HAYFIELD; JOHN SHELSTAD, KENYON; LEE MENDENHALL, NEW RICHLAND; RICHARD FORSLINE, NORTHFIELD; GLENN EDIN AND DONALD BARBER, OWATONNA; ARTHUR BERGMAN, SPRING VALLEY.

TABLE 1 - FARM INVENTORIES - 1969

ITEMS			AVE	RAGE OF 228	FARMS
1-2	SIZE OF FARM-TOTAL ACRES & TILL	ABLE A		319.6	
3	WORK UNITS-CROPS			27.37	
4-5	LIVESTOCK & OTHER			247.53	17.40
	TOTAL SIZE-WORK UNITS			392.30	11.10
	NUMBER OF WORKERS			1.5	
7A	FARM CAPITAL INVESTMENT PER WOR	אניים	ė oc	1.5	
8		KEK	Ş 85	3568	
	PRODUCTIVE LIVESTOCK		JA	N. 1 567 \$	DEC. 31
9	DAIRY COWS				
	OTHER DAIRY CATTLE		2	2446	2935
11	BEEF BREEDING CATTLE			648	666
12	BEEF FEEDER CATTLE		3	3258	3931
13	HOGS		L	761	65 36
14-16	OTHER PRODUCTIVE LIVESTOCK			141	130
17	OTHER PRODUCTIVE LIVESTOCK TOTAL PRODUCTIVE LIVESTOCK		\$ 15	821 \$	
18	CROP, SEED AND FEED		\$ 13	3247 \$	14327
19	POWER, MACHINERY & EQUIPMENT				
20	AUTO & TRUCK (FARM SHARE)		\$ 1	.736 \$	1983
21	POWER & MACHINERY				14350
22	LIVESTOCK EQUIPMENT				3145
2 3	TOTAL POWER, MACHINERY & EQUI	PMENT			19478
24	LAND		ė en	nne è	50100
25	BUILDINGS-FENCES-ETC.			.996 \$.998 \$	23312
23	BOIDDINGS-FENCES-EIC.		\$ 21	.998 Ş	23312
26	TOTAL FARM CAPITAL		\$101	.228 \$	129053
			7121	.220 Y	123030
ITEMS		46 MOST E	ROFIT FARMS	46 LEAST	PROFIT FARMS
1-2	SIZE OF FARM-TOTAL A & TILL A	388.3	PROFIT FARMS	46 LEAST	PROFIT FARMS
1-2 3	SIZE OF FARM-TOTAL A & TILL A WORK UNITS-CROPS	388.3	PROFIT FARMS	46 LEAST	PROFIT FARMS 267.0
1-2 3	SIZE OF FARM-TOTAL A & TILL A WORK UNITS-CROPS	388.3 160.24	PROFIT FARMS 350.4	46 LEAST 312.1 118.98	PROFIT FARMS 267.0
1-2 3 4-5	SIZE OF FARM-TOTAL A & TILL A WORK UNITS-CROPS	388.3 160.24 331.00	PROFIT FARMS 350.4 33.45	46 LEAST 312.1 118.98 165.14	PROFIT FARMS 267.0 16.20
1-2 3 4-5 6	SIZE OF FARM-TOTAL A & TILL A WORK UNITS-CROPS LIVESTOCK & OTHER	388.3 160.24 331.00 524.69	PROFIT FARMS 350.4 33.45	46 LEAST 312.1 118.98 165.14 300.32	PROFIT FARMS 267.0 16.20
1-2 3 4-5 6 7	SIZE OF FARM-TOTAL A & TILL A WORK UNITS-CROPS LIVESTOCK & OTHER TOTAL SIZE-WORK UNITS NUMBER OF WORKERS	388.3 160.24 331.00 524.69 1.7	PROFIT FARMS 350.4 33.45	46 LEAST 312.1 118.98 165.14 300.32 1.4	PROFIT FARMS 267.0 16.20
1-2 3 4-5 6 7 7A	SIZE OF FARM-TOTAL A & TILL A WORK UNITS-CROPS LIVESTOCK & OTHER TOTAL SIZE-WORK UNITS NUMBER OF WORKERS FARM CAP. INVESTMENT PER WORKER	388.3 160.24 331.00 524.69 1.7 \$104435	PROFIT FARMS 350.4 33.45	46 LEAST 312.1 118.98 165.14 300.32 1.4 \$ 86035	PROFIT FARMS 267.0 16.20
1-2 3 4-5 6 7 7A 8	SIZE OF FARM-TOTAL A & TILL A WORK UNITS-CROPS LIVESTOCK & OTHER TOTAL SIZE-WORK UNITS NUMBER OF WORKERS FARM CAP. INVESTMENT PER WORKER PRODUCTIVE LIVESTOCK	388.3 160.24 331.00 524.69 1.7 \$104435 JAN. 1	PROFIT FARMS 350.4 33.45 DEC. 31	46 LEAST 312.1 118.98 165.14 300.32 1.4 \$ 86035 JAN. 1	PROFIT FARMS 267.0 16.20 DEC. 31
1-2 3 4-5 6 7 7A 8	SIZE OF FARM-TOTAL A & TILL A WORK UNITS-CROPS LIVESTOCK & OTHER TOTAL SIZE-WORK UNITS NUMBER OF WORKERS FARM CAP. INVESTMENT PER WORKER PRODUCTIVE LIVESTOCK DAIRY COWS	388.3 160.24 331.00 524.69 1.7 \$104435 JAN. 1 \$ 2694	PROFIT FARMS 350.4 33.45 DEC. 31 \$ 2982	46 LEAST 312.1 118.98 165.14 300.32 1.4 \$ 86035 JAN. 1 3500	PROFIT FARMS 267.0 16.20 DEC. 31 \$ 3401
1-2 3 4-5 6 7 7A 8 9	SIZE OF FARM-TOTAL A & TILL A WORK UNITS-CROPS LIVESTOCK & OTHER TOTAL SIZE-WORK UNITS NUMBER OF WORKERS FARM CAP. INVESTMENT PER WORKER PRODUCTIVE LIVESTOCK DAIRY COWS OTHER DAIRY CATTLE	388.3 160.24 331.00 524.69 1.7 \$104435 JAN. 1 \$ 2694 1255	PROFIT FARMS 350.4 33.45 DEC. 31 \$ 2982 1755	312.1 118.98 165.14 300.32 1.4 \$ 86035 JAN. 1 3500 2180	PROFIT FARMS 267.0 16.20 DEC. 31 \$ 3401 2473
1-2 3 4-5 6 7 7A 8 9 10	SIZE OF FARM-TOTAL A & TILL A WORK UNITS-CROPS LIVESTOCK & OTHER TOTAL SIZE-WORK UNITS NUMBER OF WORKERS FARM CAP. INVESTMENT PER WORKER PRODUCTIVE LIVESTOCK DAIRY COWS OTHER DAIRY CATTLE BEEF BREEDING CATTLE	388.3 160.24 331.00 524.69 1.7 \$104435 JAN. 1 \$ 2694 1255 387	PROFIT FARMS 350.4 33.45 DEC. 31 \$ 2982 1755 305	312.1 118.98 165.14 300.32 1.4 \$ 86035 JAN. 1 3500 2180 1202	PROFIT FARMS 267.0 16.20 DEC. 31 \$ 3401 2473 1198
1-2 3 4-5 6 7 7A 8 9 10 11	SIZE OF FARM-TOTAL A & TILL A WORK UNITS-CROPS LIVESTOCK & OTHER TOTAL SIZE-WORK UNITS NUMBER OF WORKERS FARM CAP. INVESTMENT PER WORKER PRODUCTIVE LIVESTOCK DAIRY COWS OTHER DAIRY CATTLE BEEF BREEDING CATTLE BEEF FEEDER CATTLE	388.3 160.24 331.00 524.69 1.7 \$104435 JAN. 1 \$ 2694 1255 387 5188	PROFIT FARMS 350.4 33.45 DEC. 31 \$ 2982 1755 305 7310	312.1 118.98 165.14 300.32 1.4 \$ 86035 JAN. 1 3500 2180 1202 4310	PROFIT FARMS 267.0 16.20 DEC. 31 \$ 3401 2473 1198 3946
1-2 3 4-5 6 7 7A 8 9 10 11 12	SIZE OF FARM-TOTAL A & TILL A WORK UNITS-CROPS LIVESTOCK & OTHER TOTAL SIZE-WORK UNITS NUMBER OF WORKERS FARM CAP. INVESTMENT PER WORKER PRODUCTIVE LIVESTOCK DAIRY COWS OTHER DAIRY CATTLE BEEF BREEDING CATTLE BEEF FEEDER CATTLE HOGS	388.3 160.24 331.00 524.69 1.7 \$104435 JAN. 1 \$ 2694 1255 387 5188 13420	PROFIT FARMS 350.4 33.45 DEC. 31 \$ 2982 1755 305 7310 19279	312.1 118.98 165.14 300.32 1.4 \$ 86035 JAN. 1 3500 2180 1202 4310 1644	DEC. 31 \$ 3401 2473 1198 3946 1862
1-2 3 4-5 6 7 7A 8 9 10 11 12 13 14-16	SIZE OF FARM-TOTAL A & TILL A WORK UNITS-CROPS LIVESTOCK & OTHER TOTAL SIZE-WORK UNITS NUMBER OF WORKERS FARM CAP. INVESTMENT PER WORKER PRODUCTIVE LIVESTOCK DAIRY COWS OTHER DAIRY CATTLE BEEF BREEDING CATTLE BEEF FEEDER CATTLE HOGS OTHER PRODUCTIVE LIVESTOCK	388.3 160.24 331.00 524.69 1.7 \$104435 JAN. 1 \$ 2694 1255 387 5188 13420 118	PROFIT FARMS 350.4 33.45 DEC. 31 \$ 2982 1755 305 7310 19279 256	312.1 118.98 165.14 300.32 1.4 \$ 86035 JAN. 1 3500 2180 1202 4310 1644 23	DEC. 31 \$ 3401 2473 1198 3946 1862 16
1-2 3 4-5 6 7 7A 8 9 10 11 12 13 14-16	SIZE OF FARM-TOTAL A & TILL A WORK UNITS-CROPS LIVESTOCK & OTHER TOTAL SIZE-WORK UNITS NUMBER OF WORKERS FARM CAP. INVESTMENT PER WORKER PRODUCTIVE LIVESTOCK DAIRY COWS OTHER DAIRY CATTLE BEEF BREEDING CATTLE BEEF FEEDER CATTLE HOGS OTHER PRODUCTIVE LIVESTOCK TOTAL PRODUCTIVE LIVESTOCK	388.3 160.24 331.00 524.69 1.7 \$104435 JAN. 1 \$ 2694 1255 387 5188 13420 118 \$ 23062	PROFIT FARMS 350.4 33.45 DEC. 31 \$ 2982 1755 305 7310 19279 256 \$ 31887	46 LEAST 312.1 118.98 165.14 300.32 1.4 \$ 86035 JAN. 1 3500 2180 1202 4310 1644 23 \$ 12859	DEC. 31 \$ 3401 2473 1198 3946 1862 16 \$ 12896
1-2 3 4-5 6 7 7A 8 9 10 11 12 13 14-16	SIZE OF FARM-TOTAL A & TILL A WORK UNITS-CROPS LIVESTOCK & OTHER TOTAL SIZE-WORK UNITS NUMBER OF WORKERS FARM CAP. INVESTMENT PER WORKER PRODUCTIVE LIVESTOCK DAIRY COWS OTHER DAIRY CATTLE BEEF BREEDING CATTLE BEEF FEEDER CATTLE HOGS OTHER PRODUCTIVE LIVESTOCK	388.3 160.24 331.00 524.69 1.7 \$104435 JAN. 1 \$ 2694 1255 387 5188 13420 118	PROFIT FARMS 350.4 33.45 DEC. 31 \$ 2982 1755 305 7310 19279 256 \$ 31887	46 LEAST 312.1 118.98 165.14 300.32 1.4 \$ 86035 JAN. 1 3500 2180 1202 4310 1644 23 \$ 12859	DEC. 31 \$ 3401 2473 1198 3946 1862 16 \$ 12896
1-2 3 4-5 6 7 7A 8 9 10 11 12 13 14-16 17 18	SIZE OF FARM-TOTAL A & TILL A WORK UNITS-CROPS LIVESTOCK & OTHER TOTAL SIZE-WORK UNITS NUMBER OF WORKERS FARM CAP. INVESTMENT PER WORKER PRODUCTIVE LIVESTOCK DAIRY COWS OTHER DAIRY CATTLE BEEF BREEDING CATTLE BEEF FEEDER CATTLE HOGS OTHER PRODUCTIVE LIVESTOCK TOTAL PRODUCTIVE LIVESTOCK CROPS, SEED AND FEED POWER, MACHINERY & EQUIPMENT	388.3 160.24 331.00 524.69 1.7 \$104435 JAN. 1 \$ 2694 1255 387 5188 13420 118 \$ 23062 \$ 19568	PROFIT FARMS 350.4 33.45 DEC. 31 \$ 2982 1755 305 7310 19279 256 \$ 31887 \$ 23813	312.1 118.98 165.14 300.32 1.4 \$ 86035 JAN. 1 3500 2180 1202 4310 1644 23 \$ 12859 \$ 12630	DEC. 31 \$ 3401 2473 1198 3946 1862 16 \$ 12896 \$ 11359
1-2 3 4-5 6 7 7A 8 9 10 11 12 13 14-16 17 18 19 20	SIZE OF FARM-TOTAL A & TILL A WORK UNITS-CROPS LIVESTOCK & OTHER TOTAL SIZE-WORK UNITS NUMBER OF WORKERS FARM CAP. INVESTMENT PER WORKER PRODUCTIVE LIVESTOCK DAIRY COWS OTHER DAIRY CATTLE BEEF BREEDING CATTLE BEEF FEEDER CATTLE HOGS OTHER PRODUCTIVE LIVESTOCK TOTAL PRODUCTIVE LIVESTOCK CROPS, SEED AND FEED POWER, MACHINERY & EQUIPMENT AUTO & TRUCK (FARM SHARE)	388.3 160.24 331.00 524.69 1.7 \$104435 JAN. 1 \$ 2694 1255 387 5188 13420 118 \$ 23062 \$ 19568	PROFIT FARMS 350.4 33.45 DEC. 31 \$ 2982 1755 305 7310 19279 256 \$ 31887 \$ 23813	312.1 118.98 165.14 300.32 1.4 \$ 86035 JAN. 1 3500 2180 1202 4310 1644 23 \$ 12859 \$ 12630	DEC. 31 \$ 3401 2473 1198 3946 1862 16 \$ 12896 \$ 11359
1-2 3 4-5 6 7 7A 8 9 10 11 12 13 14-16 17 18	SIZE OF FARM-TOTAL A & TILL A WORK UNITS-CROPS LIVESTOCK & OTHER TOTAL SIZE-WORK UNITS NUMBER OF WORKERS FARM CAP. INVESTMENT PER WORKER PRODUCTIVE LIVESTOCK DAIRY COWS OTHER DAIRY CATTLE BEEF BREEDING CATTLE BEEF FEEDER CATTLE HOGS OTHER PRODUCTIVE LIVESTOCK TOTAL PRODUCTIVE LIVESTOCK CROPS, SEED AND FEED POWER, MACHINERY & EQUIPMENT	388.3 160.24 331.00 524.69 1.7 \$104435 JAN. 1 \$ 2694 1255 387 5188 13420 118 \$ 23062 \$ 19568	PROFIT FARMS 350.4 33.45 DEC. 31 \$ 2982 1755 305 7310 19279 256 \$ 31887 \$ 23813	312.1 118.98 165.14 300.32 1.4 \$ 86035 JAN. 1 3500 2180 1202 4310 1644 23 \$ 12859 \$ 12630	DEC. 31 \$ 3401 2473 1198 3946 1862 16 \$ 12896 \$ 11359
1-2 3 4-5 6 7 7A 8 9 10 11 12 13 14-16 17 18 19 20	SIZE OF FARM-TOTAL A & TILL A WORK UNITS-CROPS LIVESTOCK & OTHER TOTAL SIZE-WORK UNITS NUMBER OF WORKERS FARM CAP. INVESTMENT PER WORKER PRODUCTIVE LIVESTOCK DAIRY COWS OTHER DAIRY CATTLE BEEF BREEDING CATTLE BEEF FEEDER CATTLE HOGS OTHER PRODUCTIVE LIVESTOCK TOTAL PRODUCTIVE LIVESTOCK CROPS, SEED AND FEED POWER, MACHINERY & EQUIPMENT AUTO & TRUCK (FARM SHARE) POWER AND MACHINERY LIVESTOCK EQUIPMENT	388.3 160.24 331.00 524.69 1.7 \$104435 JAN. 1 \$ 2694 1255 387 5188 13420 118 \$ 23062 \$ 19568 \$ 2490 16981 4729	PROFIT FARMS 350.4 33.45 DEC. 31 \$ 2982 1755 305 7310 19279 256 \$ 31887 \$ 23813 \$ 2782 19420 4841	46 LEAST 312.1 118.98 165.14 300.32 1.4 \$ 86035 JAN. 1 3500 2180 1202 4310 1644 23 \$ 12859 \$ 12630 \$ 21541 10024 1648	DEC. 31 \$ 3401 2473 1198 3946 1862 16 \$ 12896 \$ 11359 \$:1671 12348 1903
1-2 3 4-5 6 7 7A 8 9 10 11 12 13 14-16 17 18 19 20 21	SIZE OF FARM-TOTAL A & TILL A WORK UNITS-CROPS LIVESTOCK & OTHER TOTAL SIZE-WORK UNITS NUMBER OF WORKERS FARM CAP. INVESTMENT PER WORKER PRODUCTIVE LIVESTOCK DAIRY COWS OTHER DAIRY CATTLE BEEF BREEDING CATTLE BEEF FEEDER CATTLE HOGS OTHER PRODUCTIVE LIVESTOCK TOTAL PRODUCTIVE LIVESTOCK CROPS, SEED AND FEED POWER, MACHINERY & EQUIPMENT AUTO & TRUCK (FARM SHARE) POWER AND MACHINERY LIVESTOCK EQUIPMENT	388.3 160.24 331.00 524.69 1.7 \$104435 JAN. 1 \$ 2694 1255 387 5188 13420 118 \$ 23062 \$ 19568 \$ 2490 16981 4729 \$ 24200	DEC. 31 \$ 2982 1755 305 7310 19279 256 \$ 31887 \$ 23813 \$ 2782 19420 4841 \$ 27043	46 LEAST 312.1 118.98 165.14 300.32 1.4 \$ 86035 JAN. 1 3500 2180 1202 4310 1644 23 \$ 12859 \$ 12630 \$ 12630 \$ 12630	PROFIT FARMS 267.0 16.20 DEC. 31 \$ 3401 2473 1198 3946 1862 16 \$ 12896 \$ 11359 \$:1671 12348 1903 \$ 15922
1-2 3 4-5 6 7 7A 8 9 10 11 12 13 14-16 17 18 19 20 21 22 23	SIZE OF FARM-TOTAL A & TILL A WORK UNITS-CROPS LIVESTOCK & OTHER TOTAL SIZE-WORK UNITS NUMBER OF WORKERS FARM CAP. INVESTMENT PER WORKER PRODUCTIVE LIVESTOCK DAIRY COWS OTHER DAIRY CATTLE BEEF BREEDING CATTLE BEEF FEEDER CATTLE HOGS OTHER PRODUCTIVE LIVESTOCK TOTAL PRODUCTIVE LIVESTOCK CROPS, SEED AND FEED POWER, MACHINERY & EQUIPMENT AUTO & TRUCK (FARM SHARE) POWER AND MACHINERY LIVESTOCK EQUIPMENT TOTAL POWER-MACH-EQUIPMENT	388.3 160.24 331.00 524.69 1.7 \$104435 JAN. 1 \$ 2694 1255 387 5188 13420 118 \$ 23062 \$ 19568 \$ 2490 16981 4729 \$ 24200	DEC. 31 \$ 2982 1755 305 7310 19279 256 \$ 31887 \$ 23813 \$ 2782 19420 4841 \$ 27043	46 LEAST 312.1 118.98 165.14 300.32 1.4 \$ 86035 JAN. 1 3500 2180 1202 4310 1644 23 \$ 12859 \$ 12630 \$ 12630 \$ 12630	PROFIT FARMS 267.0 16.20 DEC. 31 \$ 3401 2473 1198 3946 1862 16 \$ 12896 \$ 11359 \$:1671 12348 1903 \$ 15922
1-2 3 4-5 6 7 7A 8 9 10 11 12 13 14-16 17 18 19 20 21 22	SIZE OF FARM-TOTAL A & TILL A WORK UNITS-CROPS LIVESTOCK & OTHER TOTAL SIZE-WORK UNITS NUMBER OF WORKERS FARM CAP. INVESTMENT PER WORKER PRODUCTIVE LIVESTOCK DAIRY COWS OTHER DAIRY CATTLE BEEF BREEDING CATTLE BEEF FEEDER CATTLE HOGS OTHER PRODUCTIVE LIVESTOCK TOTAL PRODUCTIVE LIVESTOCK CROPS, SEED AND FEED POWER, MACHINERY & EQUIPMENT AUTO & TRUCK (FARM SHARE) POWER AND MACHINERY LIVESTOCK EQUIPMENT	388.3 160.24 331.00 524.69 1.7 \$104435 JAN. 1 \$ 2694 1255 387 5188 13420 118 \$ 23062 \$ 19568 \$ 2490 16981 4729 \$ 24200	PROFIT FARMS 350.4 33.45 DEC. 31 \$ 2982 1755 305 7310 19279 256 \$ 31887 \$ 23813 \$ 2782 19420 4841	46 LEAST 312.1 118.98 165.14 300.32 1.4 \$ 86035 JAN. 1 3500 2180 1202 4310 1644 23 \$ 12859 \$ 12630 \$ 12630 \$ 12630	PROFIT FARMS 267.0 16.20 DEC. 31 \$ 3401 2473 1198 3946 1862 16 \$ 12896 \$ 11359 \$:1671 12348 1903 \$ 15922 \$ 53281
1-2 3 4-5 6 7 7A 8 9 10 11 12 13 14-16 17 18 19 20 21 22 23 24	SIZE OF FARM-TOTAL A & TILL A WORK UNITS-CROPS LIVESTOCK & OTHER TOTAL SIZE-WORK UNITS NUMBER OF WORKERS FARM CAP. INVESTMENT PER WORKER PRODUCTIVE LIVESTOCK DAIRY COWS OTHER DAIRY CATTLE BEEF BREEDING CATTLE BEEF FEEDER CATTLE HOGS OTHER PRODUCTIVE LIVESTOCK TOTAL PRODUCTIVE LIVESTOCK CROPS, SEED AND FEED POWER, MACHINERY & EQUIPMENT AUTO & TRUCK (FARM SHARE) POWER AND MACHINERY LIVESTOCK EQUIPMENT TOTAL POWER-MACH-EQUIPMENT LAND	388.3 160.24 331.00 524.69 1.7 \$104435 JAN. 1 \$ 2694 1255 387 5188 13420 118 \$ 23062 \$ 19568 \$ 2490 16981 4729 \$ 24200 \$ 64166 \$ 30056	DEC. 31 \$ 2982 1755 305 7310 19279 256 \$ 31887 \$ 23813 \$ 2782 19420 4841 \$ 27043 \$ 64770	312.1 118.98 165.14 300.32 1.4 \$ 86035 JAN. 1 3500 2180 1202 4310 1644 23 \$ 12859 \$ 12630 \$ 21541 10024 1648 \$ 13213 \$ 53298	PROFIT FARMS 267.0 16.20 DEC. 31 \$ 3401 2473 1198 3946 1862 16 \$ 12896 \$ 11359 \$:1671 12348 1903 \$ 15922 \$ 53281 \$ 20309

TABLE 1 INCLUDES ANY LANDLORDS SHARE OF LAND AND OTHER PROPERTY. LAND IS VALUED AT COST INSTEAD OF MARKET VALUE - BUILDING AND EQUIPMENT AT DEPRECIATED VALUE.

TABLE 2A - WHOLE FARM SUMMARY OF CASH RECEIPTS - 1969

***************************************	TABLE 2A - WHOLE FARM SUMMARY	OF CASH RECE	SIPTS - 1969	
		AVERAGE	46 MOST	46 LEAST
		OF 228	PROFITABLE	PROFITABLE
	ITEMS	FARMS	FARMS	FARMS
1	SALE OF LIVESTOCK & LIVESTOCK PRODUCTS			
2	DAIRY COWS	\$ 1471	\$ 880	\$ 1291
3	DAIRY PRODUCTS	9438	5835	7061
4	OTHER DAIRY CATTLE	984	628	523
5	BEEF BREEDING CATTLE	169	167	290
6	BEEF FEEDER CATTLE	7352	16946	7574
7A	HOGS COMPLETE	11046	34811	3031
7B	HOGS FINISHING	3711	9102	1229
7C	HOGS PRODUCING WEANING PIGS	384	14	183
8	SHEEP & WOOL	78	77	18
9	CHICKENS (INCLUDING HENS & BROILERS)	52	124	25
10	TURKEYS			
11	EGGS	464	802	35
12	OTHER PRODUCTIVE LIVESTOCK			
12A	TOTAL SALES OF PRODUCTIVE LIVESTOCK	\$35149	\$69386	\$21260
13	SALE OF CROPS			
14	CORN	\$ 3715	\$ 4680	\$ 4740
15	SOYBEANS, FLAX, SUNFLOWERS	3756	4462	4272
16	WHEAT, OATS, BARLEY, RYE	412	380	371
17	POTATOES, SUGAR BEETS, & OTHER	394	409	385
18	HAY, SILAGE & OTHER CROPS	116	111	60
19	DIVERTED ACRE PAYMENT	2373	2883	2258
19A	TOTAL SALES FROM CROPS	\$10766	\$12925	\$12086
20	CAPITAL ASSETS SOLD	532	922	931
21	GAS TAX REFUND	233	266	211
22	INCOME FROM WORK OFF THE FARM	671	1013	747
23	PATRONAGE REFUNDS	429	506	292
24	MISCELLANEOUS FARM INCOME	364	548	327
25	TOTAL FARM SALES	\$48144	\$85566	\$35854
			•	•
26	INCREASE IN FARM CAPITAL	\$ 7823	\$18348	\$ 3754
27	FAMILY LIVING FROM THE FARM	395	392	363
28	TOTAL FARM RECEIPTS (25)+(26)+(27)		\$104306	\$39971
29	ADJUSTED TOTAL FARM SALES (25)-(20)		\$84644	\$34923
30	TOTAL CASH FARM OPERATING EXPENSE	\$27558	\$52727	\$21035
31	NET CASH OPERATING INCOME	\$20054	\$31917	\$13888
-		• •	,	

TABLE 2B - WHOLE FARM SUMMARY OF CASH EXPENSES - 1969

		AVERAGE	46 MOST	46 LEAST
		OF 228	PROFITABLE	PROFITABLE
	ITEMS	FARMS	FARMS	FARMS
7	PURCHASE OF LIVESTOCK			
1		\$ 290	\$ 296	\$ 319
2	DAIRY COWS	242	59 59	228
3	OTHER DAIRY CATTLE	39	31	78
4	BEEF BREEDING CATTLE	4399	11717	3642
5	BEEF FEEDER CATTLE			219
6A		433	1158	386
6B	HOGS FINISHING	1091	2466	
6C	HOGS PRODUCING WEANING PIGS	61		28
7	SHEEP	16	49	4
8	CHICKENS (INCL. HENS & BROILERS)	93	250	7
9	TURKEYS			
10				
	MISCELLANEOUS LIVESTOCK EXPENSE	1076	1749	633
12	FEED BOUGHT	6385	15866	2898
13	FERTILIZER	2263	3540	2113
14	CHEMICALS	1067	1712	1075
15	OTHER CROP EXPENSE	1457	2208	1587
16	CUSTOM WORK HIRED	1475	1717	1413
17	REPAIR + UPKEEP OF LIVESTOCK EQUIPMENT	287	49 9	193
18	REPAIR + UPKEEP OF FARM REAL ESTATE	568	975	516
19	GAS, OIL, GREASE BOUGHT (FARM SHARE)	1357	1694	1309
20				
	AUTO (F.S.	.) 1602	2028	1546
21	WAGES OF HIRED LABOR	758	1485	433
	PERSONAL PROPERTY + REAL ESTATE TAXES	1523	1846	1447
	GENERAL FARM EXPENSE	519	663	503
	TELEPHONE EXPENSE (FARM SHAPE)	103	126	98
25	ELECTRICITY EXPENSE (FARM SHARE)	454	593	360
26	TOTAL CASH OPERATING EXPENSE	\$27558	\$52727	\$21035
27	POWER, CROP & GENERAL MACH, BOUGHT			
21	(FARM SHARE	E)\$ 5115	\$ 6886	\$ 5060
00	LIVESTOCK EQUIPMENT BOUGHT	752	939	560
28	NEW REAL ESTATE + IMPROVEMENT	3301	5365	4378
29	TOTAL FARM PURCHASES (26) THRU (29)		\$65917	\$31033
30		Q00720	400327	401000
31		\$ 7508	\$10213	\$ 6713
32	INTEREST ON FARM CAPITAL	685	454	607
33	UNPAID FAMILY LABOR		1035	678
34	LABOR CHARGE FOR PARTNERS + OTHER OPERA	,	53	82
35	BOARD FURNISHED HIRED LABOR	73	\$77672	\$39113
36	TOTAL FARM EXPENSE (30) THRU (35)	\$45500	\$//0/2	202TT2
37	LABOR EARNINGS (WHOLE FARM) (2A/28)-(36	\$10862	\$26634	\$ 858
* 38	NUMBER OF OPERATORS	1	1.	1

TABLE 3 - ENTERPRISE STATEMENT - 1969

	IABLE 3 - ENTERPRISE		46 MOST	46 LEAST
	ITEMS	228 FARMS		
1	DETIIDNE AND NET INCDEACES			
1	RETURNS AND NET INCREASES			
2	PRODUCTIVE LIVESTOCK			
3	DAIRY CATTLE	\$ 9617	\$ 5987	\$ 7185
4	OTHER DAIRY CATTLE	2751	2048	1749
5	BEEF BREEDING CATTLE	317	102	631
6	FEEDER CATTLE	3391	7365	3090
7		12177	38837	2986
8	HOG FINISHING ENTERPRISE	2704	6801	936
9	PRODUCING WEANING PIGS	527	659	165
10	FARM FLOCK SHEEP	65	102	8
11	FEEDER LAMBS	03	102	0
12	CHICKENS (INCL. HENS & BROILERS)	417	745	59
13	TURKEYS	41/	/45	59
	OTHER PRODUCTIVE LIVESTOCK			
14		001000	000000	Å1.5000
15	ALL PRODUCTIVE LIVESTOCK	\$31966	\$62646	\$16809
16	VALUE OF FEED FED TO LIVESTOCK	15492	28760	9708
	RETURN OVER FEED FROM LIVESTOCK	16474	33886	7101
18	CROP, SEED AND FEED	16087	22536	12794
19	INCOME FROM LABOR OFF THE FARM	348	669	324
20		429	506	292
21	MISCELLANEOUS FARM INCOME	364	547	327
22	TOTAL RETURNS & NET INCREASES	\$33702	\$58144	\$20838
23	EXPENSES AND NET DECREASES			
24	TRUCK AND AUTO (FARM SHARE)	\$ 1494	\$ 1885	\$ 1447
25	TRACTORS AND CROP MACHINERY	4751	6277	4221
26	ELECTRICITY	454	593	360
27	LIVESTOCK EQUIPMENT	872	1390	520
28	BUILDINGS, FENCES & TILING	2039	3233	1765
29	BARE LAND	-1 5	- 72	_, _,
30	MISCELLANEOUS LIVESTOCK EXPENSE	1076	1749	633
31	LABOR	2008	2572	1595
32	LABOR CHARGE FOR OTHER OPERATOR(S)	508	1035	678
33	PROPERTY TAX	1523	1846	1447
34	GENERAL FARM EXPENSE & TELEPHONE	622	789	601
		7508		
35	INTEREST ON FARM CAPITAL	7508	10213	6713
36	TOTAL EXPENSES & NET DECREASES	\$22840	\$31510	\$19980
37	LABOR EARNINGS	\$10862	\$26634	\$ 858
38	NUMBER OF FARM OPERATORS	1	1	1

TABLE 3 SHOWS THE RECEIPTS AND EXPENSES ADJUSTED FOR CHANGES IN INVENTORY FOR EACH ENTERPRISE AND EACH CATEGORY OF EXPENSE IN ORDER TO SHOW NET INCREASES AND NET DECREASES AND IS ANOTHER METHOD OF DETERMINING LABOR EARNINGS.

TABLE 4 - HOUSEHOLD EXPENSE - 1969

	TABLE 4 - HOUSEHOLD EXPE		OC MOCE	OT TEACE
		AVERAGE	26 MOST	31 LEAST
ITE	MS	OF 132	PROFIT.	PROFIT.
		FARMS	FARMS	FARMS
_	WILDED OF DEDCONG FAMILY	5	6	4
1	NUMBER OF PERSONS-FAMILY		4.1	3.2
2	NUMBER OF ADULT EQUIVALENT-FAMILY	3.0	4.1	3.2
3	CHURCH AND WELFARE	\$ 333	\$ 567	\$ 275
. 4	MEDICAL CARE AND HEALTH INSURANCE	753	899	640
5	FOOD AND MEALS BOUGHT	1264	1188	1142
6	OPERATING EXPENSE AND SUPPLIES	409	476	367
7	FURNISHINGS AND EQUIPMENT	465	484	516
8	CLOTHING AND CLOTHING MATERIALS	488	517	440
9	PERSONAL CARE-PERSONAL SPENDING	167	170	175
10	EDUCATION	170	156	142
11	RECREATION	206	220	167
12	GIFTS AND SPECIAL EVENTS	202	174	223
13	PERSONAL SHARE TRUCK & AUTO EXPENSE	294	289	311
14	OPERATORS SHARE UPKEEP ON DWELLING	143	142	241
15	PERSONAL SHARE TEL. & ELECT. EXPENSE	155	199	134
16		\$5049	\$5481	\$4773
17	PERSONAL SHARE NEW TRUCK & AUTO	324	443	269
18	NEW DWELLING BOUGHT	220	66	338
19		722	1376	437
20	LIFE INS, & OTHER SAVINGS & INVESTMENTS		1653	396
21	TOTAL HOUSEHOLD 3 PERSONAL (16)-(20)		\$9019	\$6213
22	TOTAL FAMILY LIVING FROM THE FARM (33		\$ 387	\$ 348
23	TOTAL CASH & NON-CASH EXP. (21)+(22)		\$9406	\$6561
24	FAMILY LIVING FROM	THE FARM		
25		OPR.SHARE	OPR. SHARE	OPR. SHARE
26	MILK AND CREAM	\$ 95	\$ 60	\$ 68
27	BEEF	201	178	204
28	PORK	74	138	53
29	LAMB	, ,	100	•
30	POULTRY	5		2
31	EGGS	4	2	-
32	VEG., FRUIT, POTATOES, FUEL-ALSO OTHER	- r	4	
32	PRODUCE	21	10	21
33	TOTAL FAMILY LIVING FROM THE FARM	\$ 400	\$ 388	\$ 348
JJ	TOTAL TALITI DIVING LIVON THE LAWL	γ 100	4 0 00	+ 0.5

TABLE 5 - NET WORTH STATEMENT-OPERATOR - 1969

			E OF			27 LEA	
	ITEMS	186 FA	RMS	PROF.	FARMS	PROF.	FARMS
*****		JAN.1	DEC.31	JAN.1	DEC.31	JAN.1	DEC.31
1	TOTAL LIVESTOCK \$	14091	16960	19772	26611	11259	12198
2	CROP, SEED & FEED TOTAL POWER, MACHINERY	11971	13126		22292	13101	
3	TOTAL POWER, MACHINERY	1.5880	18095				
4	LAND	25399		35515	37055		
5	BUILDINGS, FENCES, ETC.	17499	18607	25345	27002		
6	LAND BUILDINGS, FENCES, ETC. TOTAL FARM CAPITAL \$	84840	92345	120132		67024	
7	NON-FARM ASSETS \$	9684	10925	12198	14400	10356	11600
8	DWELL ING	5228			8046	3964	
9		99752		140344			
10	REAL ESTATE DEBT \$	25784	25350	32553	31722	19793	19502
11	CHATTEL MORTGAGES	12468	13562	13153		17846	15886
12	NOTES	4377	4887	4390	5955	3887	6196
13					1948	1272	
14	ACCOUNTS PAYABLE TOTAL LIABILITIES \$	44353	45555				43713
15	FARMERS NET WORTH \$	55399	63247	87347	107659	38546	40384
16	GAIN IN NET WORTH \$		7848		20312		1838
17	SUPPLEMENTARY MANAGEMENT INFOR	MATION					
18	OPERATORS LABOR EARNINGS \$	10222		25164		- 335	
19 20	RET. TO CAPITAL & FAMILY LABOR NON-FARM INCOME	13761		30178		2088	
21	OUTSIDE INVESTMENT INCOME	178		332		331	
22	OTHER PERSONAL INCOME	1265		416		4875	
23		1443		748		5206	
24	TOTAL MONEY BORROWED	13994		16020		19128	
25	TOTAL PAID ON DEBT(PRINCIPAL)			15525		18619	
26	TOTAL HOUSEHOLD + PERS. EXP.	6498		8394		6170	
27	RATIO FARM EXP, TO FM, RECEIPTS	.793		.695		1,010	
28	RATIO ASSETS TO LIABJAN.	2.249	2,388	2.648	3.028	1.901	1.924
29	RATIO NON-REAL ESTATE ASSETS						
30	NON-REAL ESTATE LIAB. RATIO REAL ESTATE ASSETS TO	2.78	2,93	3.50	4.15	2.01	1.99
	REAL ESTATE LIAB.	1.87	1.96	2.12	2.27	1.78	1.84
31	RATIO - NET WORTH TO TOTAL LIAB.	1.25	1.39	1.65	2.03	.90	.92
32	*RATIO CASH OPERATING EXP. TO ADJ. TOTAL FARM SALES		.66		.62		.77

^{*} ADJUSTED TOTAL FARM SALES DOES NOT INCLUDE SALE OF CAPITAL ASSETS.

THE GAIN OR LOSS IN NET WORTH IS A DOLLAR MEASURE OF PROGRESS. IT REPRESENTS THE REMAINDER OF NET EARNINGS AFTER PERSONAL AND LIVING EXPENSES. ACCURATE NET WORTH STATEMENTS ARE EXTREMELY VALUABLE TO THE FARM OPERATOR. REPORTS SHOWING EXTREME DISCREPANCIES WERE NOT USED IN THIS TABLE.

TABLE 6A - OPERATORS SHARE OF CASH RECEIPTS - 1969

	TABLE 6A - OPERATORS SHARE OF	CASH RECE		
		AVERAGE	36 MOST	36 LEAST
	ITEMS	OF 228	PROFIT.	PROFIT.
		FARMS	FARMS	FARMS

1	SALE OF LIVESTOCK & LIVESTOCK PRODUCTS			
2	DAIRY COWS	\$ 1311	\$ 737	\$ 1295
3	DAIRY PRODUCTS	8451	5463	6634
4	OTHER DAIRY CATTLE	878	672	570
5	BEEF BREEDING CATTLE	144	164	332
6	BEEF FEEDER CATTLE	7013	17739	5570
7A		10413	35424	2344
7B	HOGS FINISHING	3686	2620	1585
7C	HOGS PRODUCING WEANING PIGS	362	75	204
8	SHEEP AND WOOL	77	346	23
9	CHICKENS (INCLUDING HENS & BROILERS)		3	32
10	TURKEYS			
11	EGGS	461	7	
12	OTHER PRODUCTIVE LIVESTOCK			
12A				
alm fin A A	LIVESTOCK	\$32840	\$63250	\$18589
13	SALE OF CROPS	+ 0 0		,
14	CORN	\$ 3143	\$ 4353	\$ 3621
15	SOYBEANS, FLAX, SUNFLOWERS	3338	3962	3758
16	WHEAT, OATS, BARLEY, RYE	327	343	293
17	POTATOES, SUGAR BEETS, CANNING AND			
٠, ,	OTHER CROPS A+B	381	392	207
18	HAY, SILAGE AND OTHER CROPS	73	121	51
19	DIVERTED ACRE PAYMENT	2110	2631	1826
19A		\$ 9372	\$11802	\$ 9756
	CAPITAL ASSETS SOLD	252	413	222
21	GAS TAX REFUND	222	249	211
22	INCOME FROM WORK OFF THE FARM	646	1161	646
	PATRONAGE REFUNDS	400	563	269
24	MISCELLANEOUS FARM INCOME	360	637	347
25	TOTAL FARM SALES	\$44092	\$78075	\$30040
20		411002	4,0010	400010
26	INCREASE IN FARM CAPITAL	\$ 7464	\$19011	\$ 1997
27	FAMILY LIVING FROM THE FARM	374	395	347
28	TOTAL FARM RECEIPTS (25)+(26)+(27)	\$51930	\$97481	\$32384
20	1011111 1111111 11111111111111111111111	+01000	407102	70200,
29	ADJUSTED TOTAL FARM SALES (25)-(20)	\$43840	\$77662	\$29818
30	TOTAL CASH FARM OPERATING EXPENSE	29708	53280	- 22021
31	NET CASH OPERATING INCOME	\$14132	\$24382	\$ 7797
· ·	MAN OTHER OF MINISTERS THOUSEN	T 1 V 6	Y27002	

TABLES 6A AND 6B ARE IDENTICAL TO TABLES 2A AND 2B EXCEPT THAT THE LAND-LORD'S SHARE IS OMITTED AND INTEREST ON EQUITY IS CREDITED TO THE OPERATOR.

TABLE 6B - OPERATORS SHARE OF CASH EXPENSES - 1969

	ITEMS	AVERAGE OF 228 FARMS	36 MOST PROFIT. FARMS	36 LEAST PROFIT. FARMS
1	PURCHASE OF LIVESTOCK			
2	DAIRY COWS	\$ 257	\$ 170	\$ 3 55
3	OTHER DAIRY CATTLE	223	96	337
4	BEEF BREEDING CATTLE	31	40	100
5	BEEF FEEDER CATTLE	4335	13048	2626
6A	HOGS COMPLETE	416	949	266
6B	HOGS FINISHING	.1083	438	514
6C	HOGS PRODUCING WEANING PIGS	39	8	35
7	SHEEP	16	51	_. 5
8	CHICKENS ·	93	1	1
ġ	TURKEYS			
10	OTHER PRODUCTIVE LIVESTOCK			
11	MISCELLANEOUS LIVESTOCK EXPENSE	998	1496	632
12	FEED BOUGHT	6092	14419	2509
13	FERTILIZER	2065	3369	1613
14	CHEMICALS	972	1616	1030
15	OTHER CROP EXPENSE	1350	2075	1277
	CUSTOM WORK HIRED	1384	1742	1290
17	REPAIR + UPKEEP OF LIVESTOCK EQUIPMENT		416	171
18	REPAIR + UPKEEP OF FARM REAL ESTATE	488	681	376
19	GAS, OIL, GREASE BOUGHT (FARM SHARE)	1284	1603	1085
20	REPAIR + OPER. OF MACH. TRACTOR	3.50.57	1040	3 5 5 0
0.3	TRUCK, AUTO (FARM SHARE)	1567	1849	1558
21	WAGES OF HIRED LABOR	742	1279	564
22	PERSONAL PROPERTY + REAL ESTATE TAXES	917 1479	1253 1924	742 1907
23	CASH RENT GENERAL FARM EXPENSE	488	658	482
24 25	TELEPHONE EXPENSE (FARM SHARE)	98	118	88
	ELECTRICITY EXPENSE (FARM SHARE)	431	558	313
20 27	INTEREST EXPENSE	2588	3423	2146
28	TOTAL CASH OPERATING EXPENSE	\$29708	\$53280	\$22022
20	TOTAL CHOIL OF BIATTENO BALBADD	423700	400200	· YALVAL
29	POWER, CROP & GEN. MACH. BOUGHT			
	(FARM SHARE)	\$ 4774	\$ 6 67 8	\$ 3756
30	LIVESTOCK EQUIPMENT BOUGHT	704	1050	394
31	NEW REAL ESTATE + IMPROVEMENTS	2862	5548	3407
32	TOTAL FARM PURCHASES (28) THRU (3	1)\$38048	\$66556	\$29579
. 00	DECREASE IN FARM CAPITAL			
33	INTEREST ON FARM CAPITAL	\$ 2948	\$ 4802	\$ 2081
34 35	UNPAID FAMILY LABOR	685	456	891
35 36	LABOR CHG. FOR PARTNERS + OTHER PARTNERS		700	G9.E
37	BOARD FURNISHED HIRED LABOR	67	45	113
38	TOTAL FARM EXPENSE (32) THRU (37)		\$7 18 59	\$32664
39	LABOR EARNINGS (OPER.SHARE) (6A/28)-(38)		\$25622	\$ -280
40	RETURN TO CAPITAL AND FAMILY LABOR	\$13815	\$30880	\$ 2692
70	TOTAL TO OUT TIME IND THEFTHE HUDON	7 4 4 44 4	10000	,

LINE 40 REPRESENTS AVAILABLE INCOME FOR THE FARM FAMILY.

WORK UNITS

THE TOTAL "WORK UNITS" FOR ANY ONE FARM IS A MEASURE OF THE SIZE OF THAT FARM BUSINESS. A WORK UNIT AS USED IN THIS REPORT IS THE AVERAGE ACCOMPLISHMENT OF A FARM WORKER IN A TEN HOUR DAY. THE NUMBER OF WORK UNITS PER FARM OR PER WORKER MAY BE INTERPRETED DIFFERENTLY FOR DIFFERENT FARM SITUATIONS AS WORK EFFICIENCY, DEGREE OF MECHANIZATION, CAREFUL PLANNING OR HOURS WORKED. OCCASIONALLY HIGH WORK UNITS PER WORKER INDICATES AN EXCESSIVE WORK LOAD. THE NUMBER OF WORK UNITS FOR EACH CLASS OF LIVESTOCK AND EACH ACRE OF CROP ARE PRESENTED IN TABLE 7. THE WORK UNIT RATING WAS REVISED IN 1968.

TABLE 7 NUMBER OF WORK UNIT	S FOR SOME CLASSES	OF LIVESTOCK AND	COMMON CROPS
	NUMBER OF		NUMBER OF
ITEM	WORK UNITS	ITEM	WORK UNITS
DAIRY & DUAL PURPOSE COWS	7.0 PER HEAD	TURKEY POULTS	.12 PER 100#
OTHER DAIRY & DUAL PURP.CATTLE	1.2 PER HEAD	CANNING PEAS	.3 PER ACRE
BEEF BREEDING HERD	1.5 PER COW &	SOYBEANS FOR GRA	IN.45 PER ACRE
	REPLACEMENT	SMALL GRAIN	.3 PER ACRE
FEEDER CATTLE	.12 PER 100#	SWEET CORN	.4 PER ACRE
SHEEP-FARM FLOCK	.6 PER EWE &	CORN, HUSKED	.55 PER ACRE
	REPLACEMENT	\$20 CUSTOM WORK	1.0
LAMBS-FEEDERS	.3 PER 100#	ALFALFA HAY	.6 PER ACRE
HOGS-COMPLETE	.12 PER 100#	OTHER HAY CROPS	.4 PER ACRE
HOGS-FINISHING	.06 PER 100#	CORN, SILAGE	.8 PER ACRE
· · · · · · · · · · · · · · · · · · ·	1.4 PER LITTER	SUGAR BEETS	2.0 PER ACRE
	5.0 PER 100 HENS	DIVERTED ACRES	.2 PER ACRE
CHICKENS-REPLACEMENT !	5.0 PER 100 HENS		

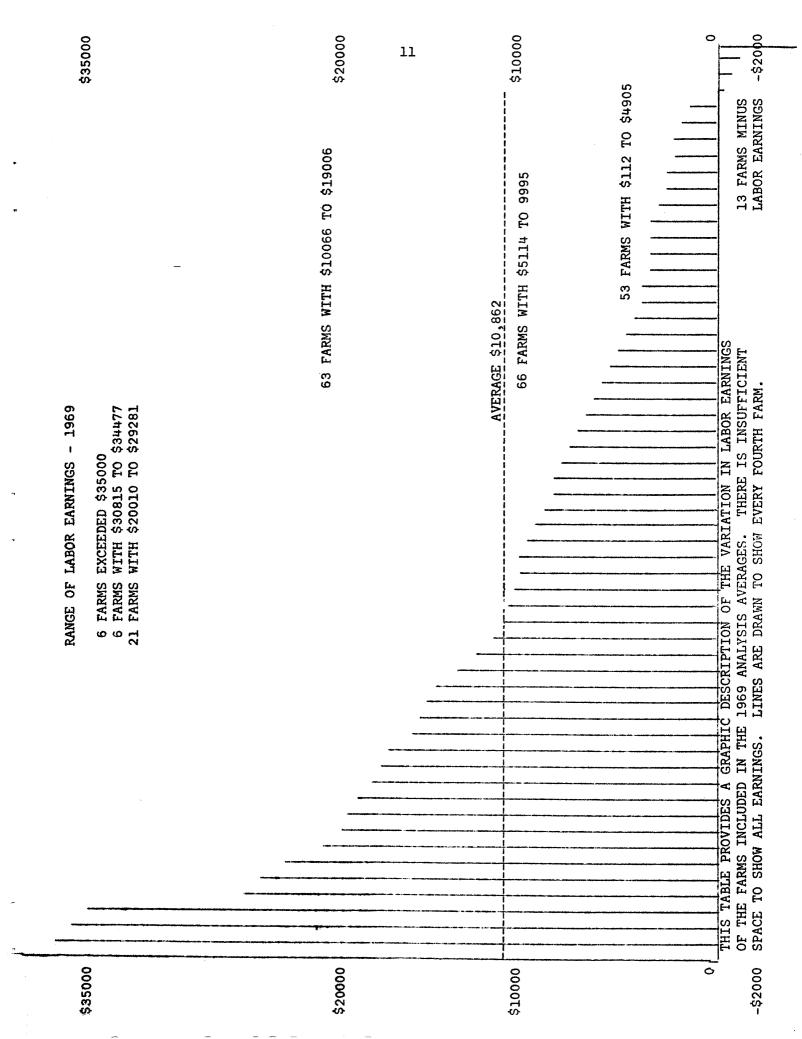
COSTS AND RETURNS FROM YOUR LIVESTOCK ENTERPRISES

FEED IS THE LARGEST SINGLE ITEM OF COST FOR ALL CLASSES OF LIVESTOCK. THE PROPORTION OF THE TOTAL COST REPRESENTED BY FEED VARIES BETWEEN CLASSES OF LIVESTOCK. FEED MAKES UP APPROXIMATELY 45% OF THE TOTAL COSTS OF MAINTAINING A DAIRY COW HERD AND AS MUCH AS 65% TO 75% FOR HOGS AND FEEDER CATTLE. IT IS NECESSARY TO SECURE A RELATIVELY HIGHER RETURN OVER FEED FROM DAIRY CATTLE AND POULTRY THAN FROM THE OTHER LIVESTOCK ENTERPRISES TO COVER COSTS OTHER THAN FEED COSTS. WHEN FEED PRICES ARE LOW, THE PERCENT OF TOTAL COST REPRESENTED BY FEED IS LOWER.

RECENT ANALYSIS INFORMATION INCLUDES SOME OTHER LIVESTOCK PRODUCTION COSTS. THE REVISED MINNESOTA FARM ACCOUNT BOOK MAKES SUCH DETAIL POSSIBLE. THE VALUE OF THIS INFORMATION IS ENTIRELY DEPENDENT UPON THE COMPLETENESS AND ACCURACY OF THE APPROPRIATE RECORDS. PRINCIPAL COSTS NOT INCLUDED IN THE ANALYSIS ARE LABOR AND HOUSING.

AVEF	AGE PRICES US	ED FOR SOME	COMMON	FEEDS - 1969	<u>.</u>		
CORN OATS BARLEY WHEAT	\$1.05 i .60 i .90 i 1.55 i	BU. E	EXTRA CH CORN SIL OAT SILA	AGE		\$20.00 22.00 7.00 6.00	T.
COWS AND BULLS COWS-BULLS (GREEN YOUNG CATTLE HOGS	\$4.50 CHOP) 6.00 2.25 .16	E	PIGS EWES JAMBS			.08 .40 .20	

THIS INFORMATION RELATES TO LIVESTOCK TABLES - PAGES 20 THROUGH 28



MEASURES OF FARM ORGANIZATION AND MANAGEMENT EFFICIENCY

TABLE 8 COMPARES EFFICIENCIES IN FARM MANAGEMENT BETWEEN AVERAGE, HIGH RETURN AND LOW RETURN FARMS. THIS IS GRAPHICALLY ILLUSTRATED BY A THERMOMETER CHART ON PAGE 14.

"LABOR EARNINGS" IS THE BASIS FOR COMPARING THE RELATIONSHIP BETWEEN SELECTED FARM MANAGEMENT FACTORS AND FARM PROFIT. "LABOR EARNINGS" REPRESENTS THAT SHARE OF THE TOTAL FARM INCOME THAT IS CREDITED TO THE OPERATOR'S LABOR AND MANAGEMENT. IT IS A WHOLE FARM FIGURE. THE OPERATOR'S SHARE MAY BE QUITE DIFFERENT. TABLES 2B AND 3 SHOW TWO METHODS OF DETERMINING LABOR EARNINGS. THE OPERATOR'S SHARE OF LABOR EARNINGS IS SHOWN IN TABLE 6B. THE RANGE OF EARNINGS OF THE COOPERATORS IS ILLUSTRATED BY A "RANGE OF EARNINGS" CHART ON PAGE 11.

FACTORS

- 1. CROP YIELD INDEX CROP YIELDS ARE EXPRESSED IN TERMS OF AVERAGES WITH AN INDEX OF 100 REPRESENTING THE COMBINED AVERAGE OF ALL CROPS. AN INDEX OF MORE THAN 100 IS ABOVE AVERAGE WHILE AN INDEX OF LESS THAN 100 IS BELOW AVERAGE.
- 2. PERCENT OF TILLABLE LAND IN HIGH RETURN CROPS THIS RATING IS BASED ON A FULL SCORE FOR THE HIGHEST RATED (A) CROPS TO NO SCORE FOR THE LOWEST RATED (D) CROPS. THE RATINGS ARE GIVEN ON PAGE 15.
- 3. GROSS RETURN PER ACRE REFLECTS BOTH CROP SELECTION AND CROP YIELD.
- 4. RETURN PER \$100 FEED FED TO PRODUCTIVE LIVESTOCK IS A MEASURE OF THE GENERAL LEVEL OF EFFICIENCY FOR ALL LIVESTOCK. IT IS EXPRESSED AS A PERCENTAGE WITH 100 REPRESENTING AVERAGE EFFICIENCY WHILE INDEXES HIGHER THAN 100 REPRESENT ABOVE AVERAGE EFFICIENCY AND THOSE LESS THAN 100 BELOW AVERAGE EFFICIENCY.
- 5. LIVESTOCK UNITS PER 100 ACRES IS IMPORTANT FOR FARMS WITH LIMITED CROPLAND. EXAMPLES OF LIVESTOCK UNITS ARE ONE DAIRY COW, TWO GROWING DAIRY ANIMALS, SEVEN SHEEP, AND FIFTY LAYING HENS.
- 6. SIZE OF BUSINESS IN WORK UNITS THE WORK UNIT MEASURES SIZE ON THE BASIS OF WORK LOAD. A WORK UNIT REPRESENTS WHAT THE AVERAGE WORKER IS EXPECTED TO ACCOMPLISH IN A TEN HOUR DAY. VALUES ARE ASSIGNED TO VARIOUS CLASSES OF CROPS AND LIVESTOCK AS SHOWN IN TABLE 7 ON PAGE 10.
- 7. WORK UNITS PER WORKER IS A MEASURE OF LABOR EFFICIENCY. IT IS DETERMINED BY DIVIDING THE WORK UNITS BY THE NUMBER OF WORKERS.
- 8. POWER, MACHINERY, EQUIPMENT AND BUILDING EXPENSE PER WORK UNIT IS A MEASURE OF EXPENSE CONTROL. IT CAN BE DETERMINED BY DIVIDING THE MECHANIZATION AND BUILDING COSTS IN TABLE 3 BY THE NUMBER OF WORK UNITS.
- 9. FARM CAPITAL INVESTMENT PER WORKER IS ANOTHER WAY OF MEASURING SIZE OF BUSINESS.

WHILE THE TOTAL NUMBER OF FACTORS IN WHICH ANY FARM OPERATION MAY EXCEL IS ALWAYS INTERESTING AND GENERALLY IMPORTANT, PROFIT IS INFLUENCED MORE BY COMBINATIONS OF FACTORS. ONE IDEAL COMBINATION IS A HEAVILY STOCKED FARM WITH A HIGH FEEDING EFFICIENCY AND HIGH YIELDING CROPS. THE OPPOSITE SITUATION, A HIGH CONCENTRATION OF INEFFICIENTLY MANAGED LIVESTOCK, CAN BE QUITE DISASTROUS.

TABLE 8 - MEASURES OF FARM ORGANIZATION - 1969

	TABLE 8 - MEASURES OF FARM ORGANIZATION - 1969										
		ΑV	ERAGE	46	MOST	46	LEAST				
	ITEMS	OF	228	PR	OFIT.	PR	COFIT.				
		FA	RMS	FA	RMS	FA	RMS				

1	LABOR EARNINGS	\$1	0862	\$2	6634	\$	858				
2	CROP YIELDS-INDEX	•	100	. –	106	•	100				
3	PERCENT TILL. LAND IN H.R. CROPS		68.3		75.3		66.9				
	GROSS RET. PER TILL. ACRE(EXCL.PASTURE)	Ś		Ś	83.63	\$					
5	RET. FOR \$100 TO PROD. LIVESTOCK-INDEX		100	*	109	Ψ	88				
6	LIVESTOCK UNITS PER 100 ACRES*		35.2		54.9		25.3				
7	SIZE OF BUSINESS - WORK UNITS		392.3		524.7		300.3				
8	WORK UNITS PER WORKER		269.4								
9	POWER MACH. EQUIP. BLDG. EXP. PER WORK		209.4		322.8		214.0				
9	· · · · · · · · · · · · · · · · · · ·	٨	00 110	<u> </u>	00.00	٠	00.00				
					26.00	-	32.09				
10	FARM CAPITAL INVESTMENT PER WORKER	\$8	9568	\$T0	4435	\$8	6035				
	TUDDO OF BEREION HAD ALLE MINES										
11	INDEX OF RETURN FOR \$100 FEED FROM										
12	COMPLETE HOG ENTERPRISE		100		102		87				
13	HOG FINISHING ENTERPRISE		100 -		107		78				
14	PRODUCING WEANING PIGS		100				93				
15	DAIRY CATTLE		100		108		99				
16	OTHER DAIRY		100		125		83				
17	ALL DAIRY & DUAL PURPOSE CATTLE		100		112		95				
18	BEEF BREEDING CATTLE		100		97		110				
19	BEEF FEEDER CATTLE		100		109		79				
20	SHEEP FARM FLOCK		100		106		113				
21	FEEDER LAMBS										
22	CHICKENS-LAYING FLOCK		100		116		29				
23	CHICKENS-BROILERS		100				100				
24	TURKEYS-LAYING FLOCK										
25	TURKEY-POULTS										
26	OTHER PRODUCTIVE LIVESTOCK										
27	NUMBER OF ANIMAL UNITS		91		167		62				
28	WORK UNITS					•					
29	CROPS		127.3		160.2		118.9				
30	PRODUCTIVE LIVESTOCK		247.5		331.0		165.1				
31	OTHER PRODUCTIVE WORK UNITS		17.4		33.4		16.2				
0.1	CIMEN INODOCITAL MOIGH CIVILO		JL 7 & T		00,4						
32	EXPENSES PER WORK UNIT										
33	TRACTOR & CROP MACHINERY EXPENSE	\$	13.37	\$	12,21	\$	16.85				
34	FARM SHARE OF AUTO & TRUCK EXPENSE	Y	4.18	Y	3.77	Y	5.47				
35	FARM SHARE OF ELECTRICITY EXPENSE		1.24		1.20		1.38				
	LIVESTOCK EQUIPMENT EXPENSE		2,17								
36	·				2.72		1.66				
37	BUILDING, FENCING & TILING EXPENSE	\$	5.42	ė	6.08 19.30	خ	6.71				
38	TRAC. & CROP MACH. EXP. PER CROP ACRE**	Ą	18.17	\$	TA*20	\$	17.83				

^{39 *}ACRES INCLUDE ALL TILLABLE LAND, NON-TILLABLE HAY AND PASTURE

^{40 **}ACRES INCLUDE ALL TILLABLE LAND PLUS ACRES IN WILD HAY

THERMOMETER CHART

USING YOUR FIGURES FROM TABLE 8, LOCATE YOUR STANDING WITH RESPECT TO THE VARIOUS MEASURES OF FARM ORGANIZATION AND MANAGEMENT EFFICIENCY, THE AVERAGES FOR THE 228 FARMS INCLUDED IN THIS SUMMARY ARE LOCATED BETWEEN THE DOTTED LINES ACROSS THE CENTER OF THIS PAGE.

\$35000 \$30000	Labor Earnings \$	125	Crop Yield Index	∞ Per Cent Land in	High Return Crops	o Gross Return	Per Acre \$	s © Return Per	\$100 Feed Index	<i>a</i> ,	Per 100 Acres	650	Total Work Units	390	Work Units Per Worker	I Expense Per	Work Unit \$	000005 Tuvestment	Per Worker \$
\$25000	-	120	-	84	-	93	_	123	-	55	-	575	-	360	-	. 16	-	180000	-
\$21000	-	115	-	80	-	87		117	-	50	-	500	-	340		18	-	160000	-
\$18000	-	110	-	78	-	83	-	112	-	46	-	450	-	320	-	20	-	140000	-
\$15000	-	106	-	75	-	78	-	108	-	42	-	425	-	300	-	22	-	120000	-
\$13000	-	103	-	73	-	74		104	-	38	-	410	-,	285	-	24	-	100000	-
\$10862	-	100	-	68	-	72	-	100	-	35	-	392	-	269	-	26]-	89000	
\$ 8500	-	97	-	65	_	68		96	-	32	-	375	-	250		27	-	75000	-
\$ 7000	-	94	-	63	-	65	-	92	-	29	-	360	-	235	-	28	-	65000	-
\$ 5000	-	91	1	60	-	62	-	88	-	26	-	330	-	220		29	-	55000	-
\$ 3000	-	88	-	57	-	60	-	84	-	23	_	300	-	200	-	30	-	50000	-
\$ 1000	-	85	-	53	-	57	-	80	-	20	-	260	-	180	-	31	-	45000	-
0	-	80	-	46	-	55	-	75	-	17	-	230	-	160	-	33	-	40000	-
-\$ 1000	-	75	-	40	-	52		70	-	14	-	200	-	140	-	35	-	35000	

TABLE 9 CROP ACRES AND YIELDS - 1969

	TABLE 9 CRO	CROP	ICO MIND TIND	DO - 1303	45 MOST	45 LEAST
			NG-AVERAGE O	F 221 FARMS		PROF. FARMS
**********			ACRES	YIELD	YIELD	YIELD
1	OATS AND MIXTURES	D	22.3	55.6	52.1	54.2
2	OATS SILAGE	С	.9	6.7T	5.5T	7.5T
3	CANNING PEAS	В	1.7	\$57.65	\$72.50	\$57.27
4	WHEAT	С	3.9	25.9	29.0	22.2
5	BARLEY	D	.1	40.0		
6	FLAX					
7	RYE					
8	TOTAL SMALL GRAIN & PEAS		28.9			•
9	CANNING CORN	В	3.0	\$78.67	\$72.00	\$70.26
10	CORN GRAIN AND SEED CORN	Α	95.8	99.6	107.3	91.0
11	SOYBEANS-GRAIN	В	66.2	26.0	28.7	23.9
12	CORN AND CANE SILAGE	В	10.5	14.9T	16.1T	13.0T
13	CORN AND CANE FODDER					
14	POTATOES					
15	SUGAR BEETS	Α	.5	12.0T		
17	OTHER CULTIVATED CROPS - A					
18	OTHER CULTIVATED CROPS - B					
19	TOTAL CULTIVATED CROPS		176.0			
20	ALFALFA HAY	В	27.0	3.5T	3.8T	3.1T
21	OTHER LEGUME HAY	C	1.0	3.0T	5.0T	5.0T
22	TAME GRASS HAY	D				
23	ANNUAL HAY	D	.6	2.0T		2.0T
24	LEGUME AND GRASS SILAGE	D	. 4	7.5T		3.8T
25	LEGUME SEED	_				****
26	GRASS SEED					
27	TOTAL HAY		29.0			
28	ALFALFA & MIXED PASTURE		3.8			
29	OTHER LEGUME PASTURE	C o	or B .2			
30	OTHER TILLABLE PASTURE	D	1.2			
31	TOTAL TILLABLE PASTURE	_	5.2			
32	DIVERTED ACRES INCOME	Α	39.2	\$58.78	\$61.54	\$57.63
33	SUMMER FALLOW - TILLED	D	33.2	4001/0	70200	40.400
34	OTHER TILLABLE LAND IDLE	D	.6			
35		_	278.9			
36	WILD HAY		.7			
37	NON-TILLABLE PASTURE		13.7			
38	TIMBER		3.1			
39	ROADS AND WASTE		11.7			
40	FARMSTEAD		9.1			
41	TOTAL ACRES IN FARM					
42	SIIPPI.	EMF:N'	TARY MANAGEM	ENT INFORMATION	1	
	PERCENT LAND TILLABLE			87.9	90.2	85.8
44	PERCENT IN HIGH RETURN CRO	PS		69.4	74.6	
45	*FERTILIZER COST PER ACRE			\$ 8.18		\$ 8.01
46	*CROP CHEMICALS PER ACRE			\$ 3.85	\$ 4.98	· ·
47	*SEED AND OTHER COSTS PER	۲۵۵۲		\$ 5.28	\$ 6.32	
48	*GAS, OIL, GREASE BOUGHT P			\$ 3.13	\$ 3.07	
70	ond, oth, Gittage bought P	ńι/ W.	CILL	ψ O. 10	Ų U•U/	Ų 0.00

^{49 *}TILLABLE LAND MINUS PASTURE

TABLE 10 CROP DATA FOR OATS - 181 FARMS - 1969

ITE	MS	TOTAL	PER ACRE AVERAGE	90 HIGH	90 LOW
1	ACRES		27.3	27.9	26.6
2	YIELD/ACRE		55.4	68.2	42.1
3	VALUE/UNIT		\$.61	\$.61	\$.61
4	GROSS RETURN	\$938.85	\$34.39	\$42.85	\$25.95
5	SUPPLEMENTAL COSTS				
6	FERTILIZER		\$ 2.27	\$ 2.54	\$ 1.95
7	CHEMICALS		.15	.11	.19
8	SEED AND OTHER		3.59	3.51	3.61
-10	CUSTOM WORK & HIRED LABOR	₹	2.23	2.51	2.03
11	TOTAL SUPPLEMENTAL COST	rs \$224.95	\$ 8.24	\$ 8.67	\$ 7.78
12	RETURN OVER SUPPLEMENTAL	COST \$713.90	\$26.15	\$34.18	\$18.17
13	ALLOCATED COSTS				
14	POWER & CROP MACHINERY EX	KPENSE	\$10.56	\$11.19	\$10.68
-16	LAND COST & MISC. COSTS		23.81	24.48	23.16
17	TOTAL ALLOCATED COSTS	\$938.30	34.37	35.67	33.84
			ER UNIT		
18	TOTAL LISTED COSTS	\$1163.25	\$.77 \$42.61	\$44.34	\$41.62
19	RETURN OVER ABOVE COSTS	(-\$224.40)	(-\$ 8.22)	(-\$ 1.49)	(-\$15.67)

THAT THE	2.0	ODOD	TO A TT A	TOD	WHEAT	7	\sim	TATOMO		1060
T'ARLE	10	או) אין	DATA	F()K	WHEAT	- 7	()	FARMS	-	1969

	TABLE TO CROP DATA FOR WH	FAI - 10 LAKM2 - Taba	
ITE	MS	TOTAL	PER ACRE
1	ACRES	12.2	
2	YIELD/ACRE		26.1
3	VALUE/UNIT		\$ 1.90
4	GROSS RETURN	\$594.02	\$48.69
5	SUPPLEMENTAL COSTS		
6	FERTILIZER		\$ 6.15
7	CHEMICALS		.25
8	SEED AND OTHER		5.25
9-10	HIRED LABOR & CUSTOM WORK		2.54
11	TOTAL SUPPLEMENTAL COSTS	\$173.12	\$14.19
12	RETURN OVER SUPPLEMENTAL COSTS	\$420.90	\$34.50
13	ALLOCATED COSTS		
14	POWER & CROP MACHINERY EXPENSE		\$10.56
15-16	LAND COST & MISC. COSTS		25.00
17	TOTAL ALLOCATED COSTS	\$433.83 PER UNIT	\$35.56
18	TOTAL LISTED COSTS	\$1.90 \$606.95	\$49.75
19	RETURN OVER ABOVE COSTS	(-\$ 12.93)	(-\$ 1.06)

TABLE 10 CROP DATA FOR CORN - 220 FARMS - 1969

ITEMS		TOTAL PE	R ACRE AVERAGE	109 HIGH	109 LOW
l ACR	RES		96.2	109.7	82.6
	CLD/ACRE		99.7	112.5	82.6
	UE/UNIT		\$ 1.05	\$ 1.05	\$ 1.05
	OSS RETURN	\$9763.34	\$101.49	\$118.52	\$84.59
5 SUP	PPLEMENTAL COSTS				
6 FER	RTILIZER		\$ 16.28	\$ 18.08	\$13.95
7 CHE	CMICALS		6.53	7.34	5.46
8 SEE	D AND OTHER		8.04	8.60	7.22
-10 CUS	STOM WORK & HIRED LABOR		4.20	3.73	4.87
11 T	COTAL SUPPLEMENTAL COSTS	\$3371.81	\$ 35.05	\$ 37.75	\$31.50
12 RET	OVER SUPPLEMENTAL COSTS	\$6391.53	\$ 66.44	\$ 80.77	\$53.09
13 ALL	OCATED COSTS				
14 POW	JER & CROP MACHINERY EXPENS	Ε	\$ 19.36	\$ 20.52	\$19.58
-16 LAN	ID COST & MISC. COSTS		24.76	25.66	23.46
17 T	OTAL ALLOCATED COSTS	\$4244.34	\$ 44.12	\$ 46.18	\$43.04
		PER	UNIT		
18 TOT	AL LISTED COSTS	\$7616.15	. 7 9 \$79.17	\$ 83.93	\$74.54
19 RET	URN OVER ABOVE COSTS	\$2147.19	\$22.32	\$ 34.59	\$10.05

	TABLE 10 CROP DATA	FOR SOYBEAN	S - 180 FARMS -	1969	
I,	TEMS	TOTAL PE	R ACRE AVERAGE	90 HIGH	90 LOW
1	ACRES		81.3	100.1	62.4
	YIELD/ACRE	•	26.0	30.1	19.5
	VALUE/UNIT		\$ 2.20	\$ 2.20	\$ 2.20
	GROSS RETURN	\$4481.26	\$55.12	\$67.07	\$43.16
5	SUPPLEMENTAL COSTS				
6	FERTILIZER		\$ 2.18	\$ 2.61	\$ 1.49
7	CHEMICALS		4.66	5.00	4.13
8	SEED AND OTHER		3.71	4.01	3.24
9-10	HIRED LABOR & CUSTOM WORK		1.54	1.32	1.89
11	TOTAL SUPPLEMENTAL COSTS	\$ 982.92	\$12.09	\$12.94	\$10.75
12	RET.OVER SUPPLEMENTAL COSTS	\$3498.34	\$43.03	\$54.13	\$32.41
13	ALLOCATED COSTS				
14	POWER & CROP MACHINERY EXPE	ENSE	\$15.84	\$16.79	\$16.02
15-16	LAND COST & MISC. COSTS		24.54	25.42	23.17
17	TOTAL ALLOCATED COSTS	\$3282.89	\$40.38	\$42.21	\$39.19
		PER	UNIT		
18	TOTAL LISTED COSTS	\$4265.812.	02 \$52.47	\$55.15	\$49.94
19	RETURN OVER ABOVE COSTS	\$ 215.45	\$ 2.65	\$11.92	(\$-6.78)

TABLE 10 CROP DATA FOR CORN SILAGE - 139 FARMS - 1969

ITEMS	TOTAL	PER ACRE
1 ACRES	16.7	
2 YIELD/ACRE		14.9T
3 VALUE/UNIT		\$ 6.99
4 GROSS RETURN	\$1758.34	\$105.29
5 SUPPLEMENTAL COSTS		
6 FERTILIZER		\$ 14.79
7 CHEMICALS		5.81
8 SEED AND OTHER		5.45
10 CUSTOM WORK AND HIRED LA	BOR	3.23
11 TOTAL SUPPLEMENTAL COST	rs \$ 488.98	\$ 29.28
12 RETURN OVER SUPPLEMENTAL CO	OSTS \$1269.36	\$ 76.01
13 ALLOCATED COSTS		
14 POWER AND CROP MACHINERY	EXPENSE	\$ 28.16
16 LAND COST AND MISC. COST	\$	24.07
17 TOTAL ALLOCATED COSTS	\$ 872.24	\$ 52.23
18	PER UNIT	
18 TOTAL LISTED COSTS	\$5.47 \$1361.22	\$ 81.51
19 RETURN OVER ABOVE COSTS	\$ 397.12	\$ 23.78

TABLE 10 CROP DATA FOR ALFALFA HAY - 173 FARMS - 1969 86 HIGH 86 LOW PER ACRE AVE. TOTAL ITEMS 31.7 37.3 34.4 1 ACRES 2.7T 4.2T 3.5T 2 YIELD/ACRE \$19.75 \$20.01 \$19.88 3 VALUE/UNIT \$82.72 \$54.70 4 GROSS RETURN \$2363.97 \$68.72 5 SUPPLEMENTAL COSTS \$ 1.92 \$ 3.32 \$ 2.67 FERTILIZER .06 .08 7 CHEMICALS 5.52 5.87 5.08 SEED AND OTHER 8 1.77 1.29 HIRED LABOR & CUSTOM WORK 1.48 9-10 \$ 8.77 \$ 9.73 \$10.56 \$ 334.71 TOTAL SUPPLEMENTAL COSTS 11 \$45.93 \$2029.26 \$58.99 \$72.16 12 RETURN OVER SUPPL. COSTS 13 ALLOCATED COSTS \$21.36 \$22.38 \$21.12 POWER & CROP MACHINERY EXPENSE 14 23.53 23.90 24.10 LAND COST & MISC. COSTS 15-16 \$46.48 \$44.89 \$45.02 \$1548.69 TOTAL ALLOCATED COSTS 17 PER UNIT \$53.66 \$1883.40 \$15.57 \$54.75 \$57.04 TOTAL LISTED COSTS 18 \$ 1.04 \$13.97 \$25.68 RETURN OVER ABOVE COSTS \$ 480.57 19

TABLE 10 CROP DATA FOR CANNING PEAS - 15 FARMS - 1969

-	TABLE TO CROP DATA FOR CANNI		
		TOTAL	PER ACRE
	ACRES	25.3	
2	YIELD/ACRE		\$57.23
4	GROSS RETURN	\$1419.84	\$56.12
5	SUPPLEMENTAL COSTS		
6	FERTILIZER		\$ 4.62
7			1.46
8			10.95
-	CUSTOM WORK & HIRED LABOR		1.26
		¢ 0.00 70	
11		\$ 462.74	\$18.29
12	RETURN OVER SUPPLEMENTAL COSTS	\$ 957.10	\$37.83
	ALLOCATED COSTS		
14			\$10.56
15-16	LAND COST & MISC. COSTS		24.86
17	TOTAL ALLOCATED COSTS	\$ 896.13	\$35.42
	PER UNIT		
18	TOTAL LISTED COSTS \$.94	\$1358.87	\$53.71
19	RETURN OVER ABOVE COSTS	\$ 60.97	\$ 2.41
	TABLE 10 CROP DATA FOR CANNII	NC COPN - 15 FARMS - 10	
TT	EMS	TOTAL	PER ACRE
-	ACRES	44.2	FER ACRE
	YIELD/ACRE	77.2	\$78.69
	GROSS RETURN	\$3404.28	
**	GROSS RETURN	53404.28	\$77.02
-	OUDDI DATAMAT OCCUR		
	SUPPLEMENTAL COSTS		dra ou
6	FERTILIZER		\$13.24
7	CHEMICALS		3.73
8	SEED AND OTHER		3 .6 7
9-10			2.49
11		\$1022.35	\$23.13
12	RETURN OVER SUPPLEMENTAL COSTS	\$2381.93	\$53.89
13	ALLOCATED COSTS		
14	POWER & CROP MACHINERY EXPENSE		\$14.08
15-16	LAND COST & MISC. COSTS		23.21
17	TOTAL ALLOCATED COSTS	\$1648.22	\$37.29
	PER UNIT		,
18	TOTAL LISTED COSTS \$.77	\$2670.57	\$60.42
19	RETURN OVER TOTAL COSTS	\$ 733.71	\$16.60
	TABLE 10 CROP DATA FOR DIVERS		
Tm	EMS		
	ACRES	TOTAL	PER ACRE
	YIELD/ACRE	52.8	פֿבּר פּי
			\$58.81
	VALUE/UNIT	A0151 00	1.00
	GROSS RETURN	\$3151.63	\$59.69
	SUPPLEMENTAL COSTS	\$ 24.29	\$.46
	ALLOCATED COSTS		
14	POWER & CROP MACHINERY EXPENSE		\$ 7.04
15	LAND COST		\$24.66
16	MISC.		
17	TOTAL ALLOCATED COSTS PER UN	NIT \$1673.76	\$31.70
18	TOTAL COSTS (INC. SUPP. COSTS) \$.5		\$32.16
19	RETURN OVER TOTAL COSTS	\$1453.58	\$27.53
		TAIOUU	. 721.00

COSTS AND RETURNS FROM LIVESTOCK ENTERPRISES

THE IMPORTANCE OF LIVESTOCK IS DEPENDENT UPON A NUMBER OF FACTORS. FOR MOST FARMS THE ACREAGE OF CROPLAND IS LIMITED. PRODUCTIVE LIVESTOCK ADDS TO THE TOTAL FARM INCOME AND MAY BE NEEDED TO PROVIDE THE VOLUME NECESSARY FOR LIVING AND TO MEET GOALS THE FARM FAMILY HOPES TO ACHIEVE. TO PROVIDE FOR LIVING AND PERSONAL EXPENSES OF \$8000, THE AVERAGE OF THE 1969 ANALYSIS FARMS WOULD HAVE NEEDED TO GROSS FROM \$30,000 TO \$40,000, DEPENDING ON THE ENTERPRISE COMBINATION. A GROSS RETURN PER ACRE OF \$72 (AVERAGE FOR 228 FARMS FROM CROPS) WOULD REQUIRE ABOUT 600 ACRES OF CROP LAND. THIS IS MORE THAN DOUBLE THE AVERAGE CROP ACREAGE FOR THE 228 FARMS.

FEED IS THE LARGEST SINGLE ITEM OF COST IN LIVESTOCK PRODUCTION. RETURN ABOVE FEED COST IS THE BASIS FOR CLASSIFYING THE VARIOUS LIVESTOCK PRODUCTION UNITS. THE HIGH AND LOW GROUPS ARE HIGH OR LOW IN RELATION TO RETURN OVER FEED COST FOR A PARTICULAR ANIMAL ENTERPRISE. THEY BEAR NO DIRECT RELATIONSHIP TO THE HIGH AND LOW RETURN FARMS IN TABLES 1, 2A, 2B, 3 AND 8.

SOME OTHER CASH COST ITEMS ARE LISTED IN EACH OF THE TABLES AS "SUPPLEMEN-TAL COSTS." NO ATTEMPT HAS BEEN MADE TO ALLOCATE SUCH EXPENSES AS TAXES, INSURANCE, INTEREST ON INVESTMENT, HOUSING, EQUIPMENT, AND HIRED LABOR. THESE COSTS MUST COME FROM "RETURN OVER FEED AND SUPPLEMENTARY COSTS." WHAT WOULD REMAIN AFTER THAT COULD BE CONSIDERED AS RETURN FOR THE OPERATOR'S LABOR AND MANAGEMENT.

THE TOTAL RETURN FOR AN ENTERPRISE INCLUDES GAIN IN INVENTORY, SALE OF LIVE-STOCK, VALUE OF ANIMALS TRANSFERRED TO OTHER ENTERPRISES, VALUE OF PRODUCTS SOLD, AND ANIMALS AND PRODUCTS USED IN THE HOME. TO DETERMINE THE NET RETURN IT IS NECESSARY TO SUBTRACT ANY LOSS IN INVENTORY, PURCHASE OF LIVESTOCK, AND ANIMALS TRANSFERRED IN FROM ANOTHER ENTERPRISE. THE NET RETURN ON ANIMALS IS DESCRIBED AS "NET INCREASE IN VALUE." ANIMAL PRODUCTS ARE NOT INCLUDED IN THIS FIGURE. BOTH THE TOTAL NET INCREASE FIGURE AND THE NET INCREASE PER UNIT ARE SHOWN IN THE LIVESTOCK REPORTS.

FEED COSTS ARE DETERMINED FROM THE FEED RECORDS FOUND IN THE ACCOUNT BOOK. THE PURCHASE PRICE IS USED FOR FEEDS PURCHASED. AN AVERAGE YEARLY PRICE IS CHARGED FOR FARM GROWN FEED. THESE PRICES ARE SHOWN ON PAGE 10.

COSTS AND RETURNS FROM ALL LIVESTOCK ENTERPRISES ARE COMPUTED ON A YEARLY BASIS. FEEDING ANIMALS ARE OFTEN PURCHASED IN ONE YEAR AND SOLD IN ANOTHER. INVENTORIES ON SUCH ANIMALS SHOULD BE THE RESULT OF SKILLFUL APPRAISAL OF BOTH WEIGHTS AND VALUES. PRICES PER CWT. SOLD AND PRICES PER CWT. BOUGHT ARE USUALLY FOR DIFFERENT ANIMALS AND REFLECT ONLY THE YEARLY MARKET SITUATION.

A TERM USED IN MEASURING ANIMAL PRODUCTION INTENSITY IS "ANIMAL UNIT." AN "ANIMAL UNIT" REPRESENTS, FOR EXAMPLE, ONE DAIRY COW OR BULL, TWO OTHER DAIRY CATTLE, ONE FEEDER STEER, SEVEN SHEEP, FOURTEEN LAMBS, TWO AND ONE-HALF SOWS, FIVE PIGS AND ELEVEN HUNDRED POUNDS OF TURKEY PRODUCED. IT MEASURES LIVESTOCK UNITS PER 100 ACRES IN TABLE 8.

TABLE 11A - COSTS AND RETURNS FROM COMPLETE HOG ENTERPRISE - 1969

	TABLE ITA - COSTS AND RETURNS FROM	COMPLETE HOG		all resident rates and resident and resident res
	ITEMS		34 FARMS HIGH IN RETURN ABOVE FEED COST	RETURN ABOVE
1	POUNDS OF HOGS PRODUCED PER CWT, PRODUCED	103083	198985	32223
2	VALUE (NET INCREASE)	\$ 25,72	\$ 26.10	\$ 24.95
3	POUNDS OF FEED FED			
4	, CORN	326,3	323,5	334.8
5	SMALL GRAIN	26.4	21.1	50.4
6		72.7	76.0	64.6
7	COMPLETE RATION	•6	,7	1.4
8	TOTAL CONCENTRATES			451.2
·	2011III OONOINTIATIID	420.0	721.0	431.2
9	FORAGES	5.7	7.7	1.8
10	FEED COST			
11	CONCENTRATES AND FORAGES	11.56	11 50	יולי די
12	PASTURE		11.52	11.74
		.02	.03	A na mu.
13	TOTAL FEED COSTS	\$ 11.58	\$ 11.55	\$ 11.74
14	RETURN OVER FEED COST	\$ 14.14	\$ 14.55	\$ 13.21
15	SUPPLEMENTAL COSTS			
16	MISCELLANEOUS LIVESTOCK EXPENSE	23	. 24	_° 23
17	VETERINARY EXPENSE	.32		
	CUSTOM WORK		.37	.19
18		.29	.20	.43
19	TOTAL SUPPLEMENTAL COSTS	\$.84	\$.81	\$.85
20	RETURN OVER FEED & SUPPLEMENTAL COSTS	\$ 13.30	\$ 13.74	\$ 12.36
21	SUPPLEMENTARY MANAGEMENT INFORMATION			
22	RETURN FOR \$100 FEED FED	\$222.15	\$226.01	\$212 53
23	PRICE RECEIVED PER CWT.		· ·	\$ 22.99
	NUMBER OF LITTERS FARROWED			
24		58	111	19
25	NUMBER OF PIGS BORN PER LITTER	9.3	9.5	8.9
26	NUMBER OF PIGS WEANED PER LITTER	7.6	7,9	6.7
27	PER CENT DEATH LOSS	12.1	11.2	16,7
28	AVERAGE WEIGHT OF HOGS SOLD	227,1	225.4	233.9
29	PRICE PER CWT. CONCENTRATE FED	\$ 2.70	\$ 2.72	\$ 2,60
30	POUNDS OF PORK PURCHASED	1879	2307	1054

ONLY FARMS THAT HAVE A COMPLETE PROGRAM OF FARROWING AND MARKETING HOGS ARE INCLUDED IN TABLE 11A. OPERATORS WHO DID NOT HAVE HOGS FOR A COMPLETE YEAR WERE NOT INCLUDED IN THESE AVERAGES. THE COSTS IN THIS TABLE INCLUDE THOSE OF BOTH THE BREEDING HERD AND MARKET ANIMALS.

TABLE 11B - COSTS AND RETURNS FROM HOG FINISHING ENTERPRISE - 1969

	ITEMS	AVERAGE OF 30 FARMS	10 HIGH	10 LOW
1	AVERAGE NUMBER OF PIGS ON HAND	184.9	385.9	48.2
2	POUNDS OF HOGS PRODUCED	79292	172026	20112
	PER CWT. PRODUCED			
3	VALUE (NET INCREASE)	\$ 20.78	\$ 20.57	\$ 21.21
4	POUNDS OF FEED FED			
5	CORN	331.0	310.6	470.1
6	SMALL GRAIN	20.0	20.9	21.5
7	PROTEIN, SALT AND MINERAL	59.1	56.2	73.9
8	COMPLETE RATION	•		
9	TOTAL CONCENTRATES	410.1	387.7	565,5
10	FORAGES	.3	• 4	
	WATER D. O.O.O.T.			
11	FEED COST			
12	CONCENTRATES AND FORAGES	10.70	10.04	14.61
	PASTURE			
14	TOTAL FEED COSTS	\$ 10.70	\$ 10.04	\$ 14.61
15	RETURN OVER FEED COST	\$ 10.08	\$ 10.53	\$ 6,60
1.0	IGIOIG OVER LEED COST	Å TO:00	A TO*22	. → O., OO
16	SUPPLEMENTAL COSTS			
17	MISCELLANEOUS LIVESTOCK EXPENSE	.13	.12	.12
18	VETERINARY EXPENSE	.10	.10	.13
19	CUSTOM WORK	.28	.19	.41
20	TOTAL SUPPLEMENTAL COSTS	\$.51	\$.41	\$.66
		4 • • • • •	T	4 100
21	RETURN OVER FEED & SUPPLEMENTAL COSTS	\$ 9.57	\$ 10,12	\$ 5.94
			,	
22	SUPPLEMENTAL MANAGEMENT INFORMATION			
23	RETURN FOR \$100 FEED FED	\$194.22	\$204.90	\$145.17
24	PRICE RECEIVED PER CWT.	\$ 23.74	\$ 23.80	\$ 23.35
25	AVERAGE WEIGHT OF PIGS SOLD	219.8	219.1	219.3
26	AVERAGE PRICE PAID PER PIG BOUGHT	18.32	18.51	17.29
27	AVERAGE WEIGHT PER PIG BOUGHT	38.0	38.1	40.0
28	NUMBER OF PIGS PURCHASED	433	969	105
29	POUNDS OF PORK PURCHASED	16436	36903	4201
30	PERCENT DEATH LOSS	2.7	2.6	5.7
31	PRICE PER CWT. CONCENTRATE FED	\$ 2.61	\$ 2.59	\$ 2.58

TABLE 11B INCLUDES ONLY THOSE OPERATORS WHO PURCHASED ALL OF THE HOGS FED. SOME OPERATORS DID MAINTAIN BOTH BREEDING AND FINISHING OPERATIONS, BUT SUCH OPERATIONS WERE NOT INCLUDED IN THESE AVERAGES.

TABLE 11C - WEANING PIG ENTERPRISE - 1969

4	TABLE IIC - MENNING AIG ENTERARISE - TAGA	AVERAGE OF	7 FARMS
	ITEMS	HERD TOTAL	PER LITTER
1	NUMBER OF LITTERS FARROWED	67	
2	TOTAL VALUE PRODUCED	\$10896	\$162.63
3	POUNDS OF FEED FED		
4	CORN		1528.2
5	SMALL GRAIN		153.4
6	PROTEIN, SALT AND MINERAL		410.9
7	COMPLETE RATION		2222 5
8	TOTAL CONCENTRATES		2092,5
9	FORAGES		36,3
10	FEED COST		•
11	CONCENTRATES AND FORAGES		65.91
12	PASTURE		
13	TOTAL FEED COSTS	\$4416	\$ 65.91
14	RETURN OVER FEED COST	\$6480	\$ 96.72
15	SUPPLEMENTAL COSTS		
16	MISCELLANEOUS LIVESTOCK EXPENSE		1.42
17			4.66
18	CUSTOM WORK		1.00
19	TOTAL SUPPLEMENTAL COSTS	\$474	\$ 7.08
,,,,,			
20	RETURN OVER FEED AND SUPPLEMENTAL COSTS	\$6006	\$ 89,64
21	SUPPLEMENTARY MANAGEMENT INFORMATION		
22		\$246.74	
23		\$ 21.57	
24	NUMBER OF PIGS PRODUCED	493	
25	NUMBER OF PIGS BORN PER LITTER	9.3	
26	NUMBER OF PIGS WEANED PER LITTER	7.4	
27	PER CENT DEATH LOSS	15.8	
28	PRICE PER CWT. CONCENTRATE FED	\$ 3.13	
29	FEED AND SUPPL. COSTS PER PIG PRODUCED	\$ 9.92	

THE INFORMATION PRESENTED IN TABLE 11C INCLUDES COSTS OF MAINTAINING THE BREEDING HERD AND RAISING THE PIGS TO WEANING WEIGHT. THIS TABLE PROVIDES COSTS AND RETURNS ON A PER LITTER BASIS RATHER THAN PER CWT. BASIS.

TABLE 12 - DAIRY COWS - 1969 FACTORS OF COST AND RETURNS FROM DAIRY COWS

		AVERAGE OF 125 HERDS	42 HERDS HIGHEST RET.ABOVE FEED COST	42 HERDS LOWEST RET. ABOVE FEED COST
-	AMBRACE MIMBER OF COME	32.2	41.4	23.2
	AVERAGE NUMBER OF COWS POUNDS OF MILK		12195	10014
	POUNDS OF BUTTERFAT	412.2	451.2	359.9
3 4	PER CENT OF BUTTERFAT IN MILK	3.7	3.7	3.6
_	WATER OF SPONIOR			
	VALUE OF PRODUCE	518.17	583,62	431.85
-	DAIRY PRODUCTS SOLD	4.94	4.69	5.43
	DAIRY PRODUCTS USED IN HOME	5.22	- 5.82	3.75
8	MILK FED TO LIVESTOCK		(97)	
9		\$526.87	\$593.16	\$437.19
10	TOTAL VALUE PRODUCED	\$520.07	\$333.TO	Q 1 37423
11	POUNDS OF FEED FED			0000
12	CORN	3870.2	4037.6	3630.0
13	SMALL GRAIN & COMPLETE DAIRY RATION		517.6	812.5
14	PROTEIN, SALT & MINERAL	594.3	615.5	478.1
15	TOTAL CONCENTRATES	5082.7	5170.7	4920,6
16	LEGUME HAY	6234.3	6077.2	6605.9
	OTHER HAY AND DRY ROUGHAGE	106.8	4.0	17.5
18	SILAGE	9427.1	10522.4	8315.7
19	FEED COSTS			
20	CONCENTRATES	115.96	118.82	110.34
21	ROUGHAGES	94.81	96.69	93.75
22	PASTURE	7.61	6.14	8.79
23	TOTAL FEED COSTS	\$218.38	\$221.65	\$212.88
24	RETURN OVER FEED COSTS	\$308.49	\$371.51	\$224.31
25	SUPPLEMENTAL COSTS			
26	MISCELLANEOUS LIVESTOCK EXPENSE	\$ 19.63	\$ 23.24	\$ 14.78
27	VETERINARY EXPENSE	10,62	13.62	6.98
28	CUSTOM WORK	24.04	27.49	20.52
29	TOTAL SUPPLEMENTAL COSTS	\$ 54.29	\$ 64.35	\$ 42.28
30	RETURN OVER FEED & SUPPLEMENTAL COSTS	\$254.20	\$307.16	\$182.03
31	SUPPLEMENTARY MANAGEMENT INFORMATION			
32	RETURN FOR \$100 FEED FED	\$241.25	\$267.62	\$205.37
33	FEED COST PER CWT. MILK	\$ 1.94	\$ 1.82	\$ 2.13
34	FEED COST PER LBS. OF BUTTERFAT	\$.530	\$.491	\$.591
35	GRAIN FED PER LB. OF MILK	2.216	2.358	2.035
36	AVERAGE PRICE PER CWT. MILK SOLD	\$ 4.70	\$ 4.88	\$ 4.41
	AVERAGE PRICE PER LB. BUTTERFAT	\$ 1.28	\$ 1.32	\$ 1.23
37	AVERAGE PRICE PER LD. BUILDARAI	Q 1420	7 4.02	·

TABLE 13 - OTHER DAIRY CATTLE - 1969

TABLE 13 - OTHER	DAIRI CAILLE -	1903	
		41 HIGHEST	41 LOWEST
	AVERAGE OF	RET. ABOVE	RET. ABOVE
ITEMS	123 HERDS	FEED COST	FEED COST
d. b. da 2 7 to 2			
1 NUMBER OF HEAD	39.3	50.2	36.1
2 NET INC. IN VALUE	\$124.61	\$149.50	\$ 86.73
3 POUNDS OF FEED FED			
4 CONCENTRATES	1327.4	1267.4	1348.0
5 HAY AND ROUGHAGE	2239.8	2189.2	2394.4
6 SILAGE	3815.9	3635.8	4103.2
7 MILK	99.7	89.2	114.7
8 FEED COST			
9 CONCENTRATES	32.67	32.07	32.58
10 ROUGHAGES	34.58	33.73	36.32
11 MILK	4.33	4.00	4.71
12 PASTURE	3.61	3.39	4.24
13 TOTAL FEED COSTS	\$ 75.19	\$ 73.19	\$ 77.85
12 1014H 1FFD C0912	4 /0123	,,,,	:
14 RETURN OVER FEED COST	\$ 49.42	\$ 76.31	\$ 8.88
15 SUPPLEMENTAL COSTS			
16 MISC. LIVESTOCK EXPENSE	1.25	1.39	1.05
17 VETERINARY EXPENSE	1.40	1.31	1.36
18 CUSTOM WORK	1.02	.86	1.39
19 TOTAL SUPPLEMENTAL COSTS	\$ 3.67	\$ 3.56	\$ 3.80
20 RETURN OVER FEED & SUPPL. COSTS	\$ 45.75	\$ 72.75	\$ 5.08
21 SUPPLEMENTARY MANAGEMENT INFORMATION			
22 RETURN FOR \$100 FEED FED	\$165.72	\$204.27	\$111.42
23 PERCENT DEATH LOSS	9.1	8.4	9.7
the state of the s			

TABLE 14 - ALL DAIRY CATTLE - 1969

•		AVERAGE OF		RETURN ABOVE
***************************************	ITEMS	125 HERDS	FEED COST	FEED COST
1	AVERAGE NUMBER OF COWS	32.2	41.2	23.4
2	VALUE OF DAIRY PRODUCTS	\$528.35	\$591.53	\$447.61
3	NET INC. IN VALUE	\$148,20	\$171.29	\$123.80
4	TOTAL VALUE PRODUCED	\$676.55	\$762.82	\$571.41
5	POUNDS OF FEED FED			
6	CONCENTRATES	6688.9	6730.8	6535.9
7	HAY AND DRY ROUGHAGE	9036.7	9055.5	9492.7
8	SILAGE	14022.6	15467.6	11787.6
9	FEED COST			
10	CONCENTRATES	160.40	164.32	152.09
11	ROUGHAGE	136.43	142.04	133.50
12	PASTURE COSTS	11.93	10.73	11.58
13	TOTAL FEED COSTS	\$308.76	\$317.09	\$297.17
14	RETURN OVER FEED COST	\$367.79	\$445.73	\$274.24
15	SUPPLEMENTAL COSTS			
16	MISCELLANEOUS LIVESTOCK EXPENSE	\$ 21.12	\$ 24.93	\$ 16.07
17	VETERINARY EXPENSE	12.30	15.49	8.03
18	CUSTOM WORK	25.28	28.62	22.09
19	TOTAL SUPPLEMENTAL COSTS	\$ 58.70	\$ 69.04	\$ 46.19
20	RETURN OVER FEED & SUPPL. COSTS	\$309.09	\$376.69	\$228.05
21	SUPPLEMENTARY MANAGEMENT INFORMATION			
22	RETURN FOR \$100 FEED FED	\$219.12	\$240.57	\$192.28

TABLE 14 PRESENTS A PICTURE OF THE COSTS AND RETURNS FROM THE WHOLE DAIRY HERD ON A PER COW BASIS. THE HIGH AND LOW GROUPS IN ALL DAIRY TABLES ARE BASED ON RETURNS ABOVE FEED COST FOR THE COW HERD, RATHER THAN ON YEARLY BUTTERFAT PER COW. SOME IMPORTANT COSTS NOT INCLUDED IN THESE TABLES ARE THOSE FOR LABOR, HOUSING AND DAIRY EQUIPMENT.

TABLE 15A - BEEF BREEDING CATTLE - 1969

	ITEMS	AVERAGE OF HERD TOTAL	15 FARMS PER COW
1 2 3 4	AVERAGE NUMBER OF BEEF COWS AVERAGE NUMBER OF OTHER BEEF ANIMALS & BULLS POUNDS OF BEEF PRODUCED NET INCREASE IN VALUE	34.4 21.9 13057 \$4458	\$129.59
5 6 7 8 9	POUNDS OF FEED FED GRAIN PROTEIN, SALT AND MINERAL LEGUME HAY OTHER HAY AND DRY ROUGHAGE SILAGE		263.3 95.4 1718.2 8800.0
11 12 13 14 15	FEED COST CONCENTRATES ROUGHAGES PASTURE TOTAL FEED COSTS	\$2635	10.08 38.90 27.65 \$ 76.61
16	RETURN OVER FEED COST	\$1823	\$ 52.98
17 18 19 20 21	SUPPLEMENTAL COSTS MISCELLANEOUS LIVESTOCK EXPENSE VETERINARY EXPENSE CUSTOM WORK TOTAL SUPPLEMENTAL COSTS	\$ 139	1.83 1.37 .84 \$ 4.04
22	RETURN OVER FEED & SUPPLEMENTAL COSTS	\$1684	\$ 48.94
23 24 25 26 27 28	SUPPLEMENTAL MANAGEMENT INFORMATION RETURN FOR \$100 FEED FED PRICE PER CWT. SOLD AVERAGE WEIGHT PER HEAD SOLD PER CENT DEATH LOSS PER CENT CALF CROP	\$ 169.18 \$ 25.70 704 3.5	

TABLE 15B - FEEDER CATTLE - 1969

	TUDIL TOD - ILLIDIAN CU	11111		
	ITEMS	AVERAGE OF 40 FARMS	13 HIGHEST IN RETURN ABOVE FEED COST	
7	AVERAGE NUMBER OF BEEF FEEDERS	93.3	201,4	40.2
2	POUNDS OF BEEF PRODUCED	60392	132213	22989
2	PER CWT. PRODUCED	00032	102210	22000
_		Å 00 00	ć 00 U0	¢ 00 05
3	NET INCREASE IN VALUE OF ANIMALS	\$ 28.83	\$ 30.40	\$ 23,35
4	POUNDS OF FEED FED			
5		613.2	618 6	726.6
	PROTEIN, SALT AND MINERAL	65.1	69.2	59.1
6				111.6
7	LEGUME HAY	186.1	187.3	
8	OTHER HAY AND DRY ROUGHAGE	1.2		7.4
9	SILAGE	749.9	694.6	1324.3
	TOTAL COOR			
10	FEED COST	15 15	35 04	1 m 0 c
11	CONCENTRATES	15.15	15.34	17.06
12	ROUGHAGES	4.14	4.20	4.85
13	PASTURE	.02		.04
14	TOTAL FEED COSTS	\$ 19.31	\$ 19.54	\$ 21.95
7.5	RETURN OVER FEED COST	\$ 9.52	\$ 10.86	\$ 1.40
15	RETORN OVER TEED COST	Ų 3.02	φ 10 ,00	Ψ 1 , 10
16	SUPPLEMENTAL COSTS		•	
17	MISCELLANEOUS LIVESTOCK EXPENSE	. 29	.32	.27
18	VETERINARY EXPENSE	.76	.90	.33
19	CUSTOM WORK	.80	.82	.83
		\$ 1.85	\$ 2.04	\$ 1.43
20	TOTAL SUPPLEMENTAL COSTS	\$ T.02	₹ 2. 04	ÿ 1.443
21	RETURN OVER FEED & SUPPLEMENTAL COSTS	\$ 7.67	\$ 8.82	\$(03)
22	SUPPLEMENTARY MANAGEMENT INFORMATION			
	RETURN FOR \$100 FEED FED	\$149.32	\$155.59	\$106.38
23		\$ 27.46	\$ 27.69	\$ 26.50
24	PRICE PER CWT. SOLD			
25	AVERAGE WEIGHT PER HEAD SOLD	969.2	976.3	911.6
26	PRICE PER CWT. BOUGHT	\$ 28.53	\$ 28.09	\$ 31.81
27	AVERAGE WEIGHT PER HEAD BOUGHT	558.2	592.4	453.1
28	NUMBER OF HEAD BOUGHT	153	379	51
29	PER CENT DEATH LOSS	1.9	1.5	2.7

THE FIGURES REPRESENTED HERE ARE CALCULATED FROM AN ANNUAL RECORD AND DO NOT FOLLOW THROUGH ANY PARTICULAR LOT FED. CATTLE NOT SOLD ARE INCLUDED IN THE CLOSING INVENTORY, WITH ESTIMATES OF WEIGHTS AND VALUES. PRICE PAID (LINE 26) IS THE PRICE PAID FOR CATTLE BOUGHT DURING THE YEAR, AND NOT FOR THOSE SOLD DURING THE YEAR.

TABLE 16A - SHEEP FLOCK - 1969

		AVERAGE of 8 FARMS		
	ITEMS	FLOCK TOTAL	PER EWE	
2	AVERAGE NUMBER OF EWES POUNDS OF LAMB & MUTTON PRODUCED POUNDS OF WOOL PRODUCED VALUE OF PRODUCE WOOL NET INCREASE IN VALUE OF ANIMALS	50.0 3212 519	5.74 25.72	
7	TOTAL VALUE PRODUCED	\$1573	\$ 31.46	
8 9 10 11 12 13	POUNDS OF FEED FED GRAIN PROTEIN, SALT AND MINERAL LEGUME HAY OTHER HAY AND DRY ROUGHAGE SILAGE		209.1 21.7 596.0 520.8	
14 15 16 17 18	FEED COST CONCENTRATES ROUGHAGES PASTURE TOTAL FEED COSTS	\$671	5.48 5.66 2.28 \$ 13.42	
19	RETURN OVER FEED COST	\$902	\$ 18.04	
20 21 22 23 24	MISCELLANEOUS LIVESTOCK EXPENSE VETERINARY EXPENSE	\$ 193	\$ 1.08 \$.88 \$ 1.90 \$ 3.86	
25	RETURN OVER FEED AND SUPPLEMENTAL COSTS	\$ 709	\$ 14.18	
26 27 28 29 30 31 32	SUPPLEMENTARY MANAGEMENT INFORMATION RETURN FOR \$100 FEED FED PRICE PER CWT. LAMB & MUTTON SOLD POUNDS OF WOOL PER SHEEP SHEARED NUMBER OF EWES KEPT FOR LAMBING PER CENT LAMB CROP PER CENT DEATH LOSS	\$ 234.43 \$ 20.70 9.8 42 148 15.6		

TABLE 17A - LAYING FLOCK CHICKENS - 1969

	ITEMS	AVERAGE OF 7 FLOCK TOTAL	
1 2 3 4	AVERAGE NUMBER OF HENS VALUE OF PRODUCE PER HEN EGGS SOLD AND USED INC. IN VALUE OF FLOCK	1110.8	5.94 (34)
5	TOTAL VALUE PRODUCED	\$6220	5.60
6 7 8 9 10			72.3 25.5 97.8
11	TOTAL FEED COST PER HEN	3099	2.79
12	RETURN OVER FEED COST	\$3121	2.81
13	SUPPLEMENTAL COSTS	\$ 222	.20
14	RETURN OVER FEED AND SUPPLEMENTAL COSTS	\$2899	2.61
15 16 17 18 19 20 21	SUPPLEMENTARY MANAGEMENT INFORMATION RETURN FOR \$100 FEED FED EGGS LAID PER HEN PRICE PER DOZEN EGGS SOLD - CENTS FEED COST PER DOZEN EGGS - CENTS RETURN OVER FEED COSTS PER DOZEN EGGS PERCENT DEATH LOSS	\$,17	

ONLY LAYING OPERATIONS THAT WERE CONTINUOUS FOR TWELVE MONTHS ARE SHOWN IN THIS TABLE. FLOCKS OF LESS THAN 400 WERE ALSO ELIMINATED.

LABOR EARNINGS CORRELATED WITH EXCELLED FACTORS

STUDIES OF EARNINGS OF FARMERS IN THIS REPORT WERE MEASURED BY NINE MANAGEMENT FACTORS CAUSING VARIATIONS IN EARNINGS AMONG FARMERS WITHIN A GIVEN YEAR. THESE NINE FACTORS SHOWN IN TABLE 8 ARE CROP YIELDS, CHOICE OF CROPS, GROSS RETURNS PER ACRE, RETURNS FROM LIVESTOCK, AMOUNT OF LIVESTOCK, SIZE OF BUSINESS, ACCOMPLISHMENTS PER WORKER, CONTROL OVER EXPENSES, AND INVESTMENT PER WORKER. GROSS RETURN PER ACRE AND INVESTMENT PER WORKER ARE EXPANSIONS OF OTHER MEASURES. THEY ARE OMITTED FROM THIS YEAR'S TABLE 18 IN ORDER TO AVOID ANY IMBALANCE OF EMPHASIS. THE COMBINED OR CUMULATIVE INFLUENCE OF SEVEN MANAGEMENT FACTORS ON EARNINGS IS SHOWN IN TABLE 18. COMPARISONS OF HOW INDIVIDUALS WERE RELATED TO INCOME LEVELS IS SHOWN IN TABLE 8.

TARLE.	18	_	228	FARMS

NUMBER OF FACTORS IN WHICH FARMERS EXCELLED (SEVEN)	NUMBER OF FARMS	AVERAGE LABOR EARNINGS	
0 OR 1	28	XXXX \$3812	
2	48	XXXXXX \$6191	
3	54	XXXXXXXX \$8673	
ft	46	XXXXXXXXXX \$11409	
5	30	XXXXXXXXXXXXXXX \$15538	
6 OR 7	22	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	

COMMENTS AND OBSERVATIONS

OVER 300 FARM RECORDS HAD BEEN RECEIVED AT THE TIME THIS REPORT WAS COMPILED. A FEW MORE RECORDS ARE EXPECTED. VERY FEW OF THE EARLY BOOKS WERE SCREENED FROM THE WHOLE FARM AVERAGES. THESE WERE MOSTLY THOSE HAVING LESS THAN ONE FULL-TIME WORKER. IT IS HOPED THAT INFORMATION ON LATE BOOKS CAN BE SUMMARIZED AT SOME LATER DATE.

THE PROMPTNESS OF AGRICULTURAL RECORDS COOPERATIVE IN GETTING AVERAGES BACK EARLY WAS MOST HELPFUL. THIS YEAR THE AVERAGES WERE RUN WITHOUT NEED FOR CORRECTION.

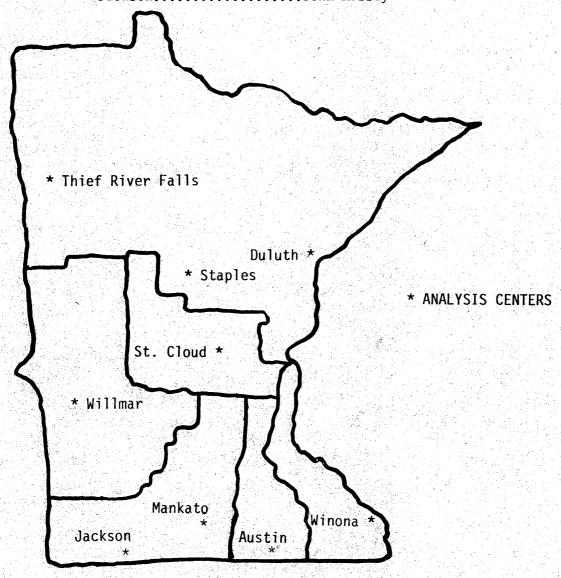
INSTRUCTORS ARE URGED TO ENCOURAGE COOPERATORS TO KEEP COMPLETE RECORDS. FAULTY DISTRIBUTION OF CROP AND FEED COSTS RESULTS IN QUESTIONABLE ANALYSIS INFORMATION. OF PARTICULAR CONCERN IS THAT MORE COOPERATORS SUBMIT HOUSEHOLD AND NET WORTH INFORMATION. SUCH INFORMATION WOULD ALSO PROVIDE MORE CASES FOR TABLES 6A AND 6B. OF STILL GREATER IMPORTANCE IS THE VALUE OF THIS INFORMATION TO THE COOPERATING FARM FAMILIES. COOPERATORS SHOULD BE ENCOURAGED TO GET ACCOUNT BOOKS TO THE ANALYSIS CENTER BEFORE THEY FILE FOR INCOME TAX. THIS WILL REDUCE THE POSSIBLE NUMBER OF ERRORS IN THE TAX REPORT.

SUMMARY OF FARM EARNINGS BY YEARS

SALE OF LIVESTOCK & LIVESTOCK PRODUCTS	1966	1967	1968	1969
DAIRY CATTLE	\$ 2068	\$ 2577	\$ 2373	\$ 2455
DAIRY PRODUCTS	7342	8112	8917	9438
BEEF CATTLE	5414	5795	5984	7521
HOGS	11688	10948	11901	15141
SHEEP & WOOL	78	53	60	78
POULTRY & EGGS (INCL. TURKEYS)	690	312	341	516
POUDIRI & EGGS (INCL. TORALIS)	030	012	0.47	0.2.0
CALE OF OPODC				
SALE OF CROPS	2418	2670	2537	3715
CORN		4121	4365	4678
SOYBEANS & OTHER CROP SALES	3859	872	4303 1749	2373
DIVERTED ACRE PAYMENT	160 6			532
CAPITAL ASSETS SOLD	500	1289	551	
GAS TAX REFUND	509	229	227	233
OTHER FARM INCOME	753	1017	1202	1464
TOTAL FARM SALES	36425	37995	40207	48144
INCREASE IN FARM CAPITAL	9998	6018	5712	7823
FAMILY LIVING FROM THE FARM	371	343	379	395
TOTAL FARM RECEIPTS	\$46794	\$44356	\$46298	\$56362
PURCHASE OF LIVESTOCK				
DAIRY CATTLE	\$ 529	\$ 588	\$ 480	\$ 532
BEEF CATTLE	3141	2914	3214	4438
HOGS	1738	1545	1432	1585
SHEEP	2	6	18	16
POULTRY (INCL. TURKEYS)	119	107	25	93
MISCELLANEOUS LIVESTOCK EXPENSE	767	855	962	1076
	5464	4906	5376	6385
FEED BOUGHT	1949	2420	2314	2263
FERTILIZER	1645	2002	2123	2524
OTHER CROP EXPENSE		1235	1327	1475
CUSTOM WORK HIRED	983		225	287
REPAIR & UPKEEP OF LIVESTOCK EQUIPMENT	207	194		
REPAIR & UPKEEP OF FARM REAL ESTATE	441	392	423	568
GAS, OIL, GREASE BOUGHT (FARM SHARE)	1216	1202	1224	1357
REPAIRSOPER OF MACH, TRACTOR, TRUCK, AUTO (F.S.)	1319	1264	1259	1602
WAGES OF HIRED LABOR	589	546	657	758
PERSONAL PROPERTY & REAL ESTATE TAXES	1488	1546	1257	1523
GENERAL FARM EXPENSE	468	410	476	519
TELEPHONE EXPENSE (FARM SHARE)		86	89	103
ELECTRICITY EXPENSE (FARM SHARE)	351	376	419	<u> 454</u>
TOTAL CASH OPERATING EXPENSE	\$22416	\$22594	\$23300	\$27558
POWER, CROP & GENERAL MACH BOUGHT (F.S.)	\$ 4231	\$ 4407	\$ 3412	\$ 5115
LIVESTOCK EQUIPMENT BOUGHT	830	814	692	752
NEW REAL ESTATE & IMPROVEMENT	3888	5431	4114	3301
TOTAL FARM PURCHASES	\$31365		\$31518	
TOTAL TARM TORORADE	402000	+00270	, , , , , , ,	• • • • • • • • • • • • • • • • • • • •
DECREASE IN FARM CAPITAL	***	640) 677 0	gin alli	***
		4900		7508
INTEREST ON FARM CAPITAL	842	948	988	1193
UNPAID FAMILY LABOR AND/OR PARTNER			71	73
BOARD FURNISHED HIRED LABOR	92	73 \$39167		
TOTAL FARM EXPENSE	\$37006	\$3AT 0\	430030	742700
TARON DARWING (MICH DARW)	\$ 9788	\$ 5189	\$ 8240	\$10862
LABOR EARNINGS (WHOLE FARM)	4 2/00	4 OTOS	Q 0240	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Area Coordinators

Thief River Falls	Ed Sisler
Duluth	Rodger Palmer
St. Cloud	Ed O'Connell
Mankato	Del Hodgkins
Austin	
Winona	Donald Walker
Staples	William Guelker
Willmar	John Thell
Jackson	John Murray



COOPERATING VOC. AG. DEPARTMENTS in Austin Area

Adams
Alden
Austin
Blooming Prairie
Byron
Elkton
Faribault
Freeborn
Hayfield

Kenyon
New Richland
Northfield
Owatonna
Spring Valley
Stewartville
Wanamingo
West Concord
Zumbrota