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1979

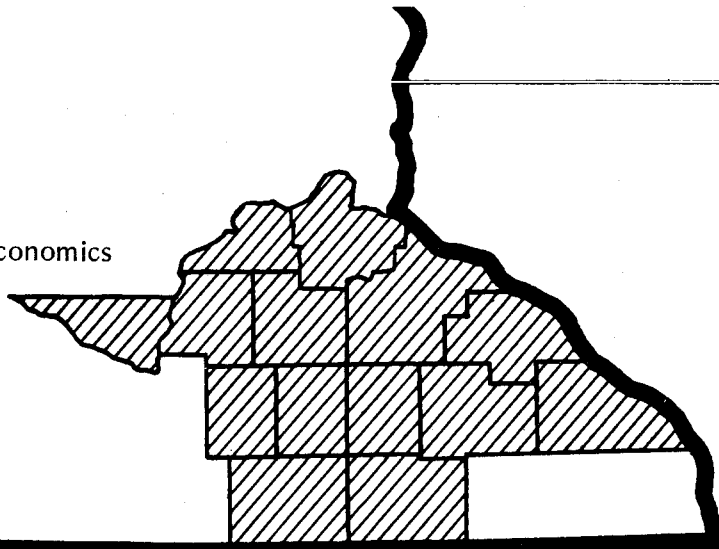
annual report

Southeastern Minnesota Farm Management Association

COOPERATING AGENCIES:

University of Minnesota, Institute of Agriculture
County Extension Services of the 14 Southeastern Counties
Southeastern Minnesota Farm Management Association

Economic Report ER 80-2
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1979 ANNUAL REPORT OF THE SOUTHEASTERN MINNESOTA
FARM MANAGEMENT ASSOCIATION

by

Delane E. Welsch and Hilbert B. Pfeifer, Jr.*

INTRODUCTION

The Department of Agricultural and Applied Economics and the Agricultural Extension Service of the University of Minnesota, and the Agricultural Extension Agents of several southeastern Minnesota counties are cooperating with the Southeastern Minnesota Farm Management Association in maintaining a farm management service. The Association was organized in the fall of 1927 by farmers in that part of the state for the purpose of studying the farm business through farm records. Each farmer pays an annual fee which covers a large part of the cost, with the balance defrayed by the Agricultural Extension and Research programs of the University of Minnesota. The analysis of the records and the preparation of the report are handled by the Department of Agricultural and Applied Economics under the direction of Delane E. Welsch. Hilbert B. Pfeifer, Jr., is the fieldman for this project. Kenneth H. Thomas is the Extension Economist in Farm Management working closely with this Association. Edward Becker is the District Director of Agricultural Extension for the counties which are served by the Association.

Of the 118 farms in the Southeastern Association, 90 submitted records at the time of this report. The data for 83 farms are shown in the tables on succeeding pages. The rest were omitted from the information in the tables because the records were not sufficiently complete for a full analysis. No claim is made as to whether the farmers who belong to the Association are or are not representative of southeastern Minnesota. However, this report should be of value to farmers and others interested in agriculture in that it illustrates how farm records may be used as a basis for making an analysis of a farm business. It also shows typical enterprise costs and returns for 1979 and the variation in enterprise earnings as well as in total farm earnings.

The content of this report is somewhat different from those prior to 1977. While the roots of the analysis lie in the work of the Department of Agricultural and Applied Economics and its predecessor units over the past 60 years, the more detailed analysis found in this report was developed by Professor Edgar Persons of the University of Minnesota. This analysis is also used by Vocational Agriculture Adult Farm Business Management Education classes throughout Minnesota and in some other states. The computer work was done by Specialized Data Systems, Inc., Madison, Wisconsin.

*Welsch is Professor of Farm Management, Pfeifer is jointly Area Farm Management Extension Agent and Fieldman for the Association. The authors wish to thank the following people for their contributions to this report: Delores Dallmann, Shirley Koestler, Wayne Pike, and Barbara Rolf for their assistance in account book closing and coding; Paul Friesen, David Schoeder, Bernadette Sloom, and JoAnn Smykalski for their review of the analyses and correction of errors; Paul Hasbargen and Ken Thomas for much helpful advice; and Carol Hansen and Eileen Miley for all of their secretarial and clerical work throughout the project, and especially for putting this report together.

SOUTHEASTERN MINNESOTA FARM MANAGEMENT ASSOCIATION

DISTRIBUTION OF MEMBERSHIP

1979

County	Number of Members	Number Submit Records	Association Directors	County Extension Directors
Dakota	10	6	Henry Scharr	Warren N. Sifferath
Dodge	13	12	Dean Wright, President	David H. Hanson
Freeborn	12	6	Chuck Vollum	Eldon H. Senske
Goodhue	19	16	Owen Knutson	Richard C. Walter
Le Sueur	8	5	Phil Meyer	Robert J. Leary
Mower	3	2	Dean Wright	Harlan L. Johnsrud
Nicollet	2	2	Phil Meyer	Gregory D. Luehr
Olmsted	9	7	Harold Frost, Vice-President	David Kjome
Rice	7	5	George Duban	Jeffrey Hawkins
Scott	12	8	Caldwell Ruehling	David D. Hart
			Arnie Schoenbauer, Sec. Treas.	
Steele	8	8	Vernal Wilker	Larry A. Tande
Wabasha	7	7	Forest Lamprecht	Matthias P. Metz
Waseca	2	1	Phil Meyer	Roger M. Wilkowske
Winona	5	5	Forest Lamprecht	Neil R. Brodwater
Houston	1	0	Forest Lamprecht	Russell L. Krech
Total	118	90		

1979 ANNUAL REPORT OF THE SOUTHEASTERN MINNESOTA

FARM MANAGEMENT ASSOCIATION

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TABLE 1. FARM INVENTORIES - 1979 - S.E.

ITEMS	Average of 83 Farms		
1	SIZE OF FARM-TOTAL ACRES	349.0	
2	-TILLABLE ACRES	307.1	
3	WORK UNITS-CROPS	154.36	
4	-LIVESTOCK	341.60	
5	-OTHER	13.61	
6	TOTAL SIZE OF BUSINESS IN WORK UNITS	509.58	
7	NUMBER OF WORKERS	1.91	
8	FARM CAPITAL INVESTMENT PER WORKER	\$207,806	
		JAN. 1	DEC. 31
9	PRODUCTIVE LIVESTOCK		
10	DAIRY COWS	\$ 14,808	\$ 16,655
11	OTHER DAIRY CATTLE	10,352	12,468
12	BEEF BREEDING CATTLE	1,833	2,243
13	BEEF FEEDER CATTLE	5,396	8,453
14	HOGS	15,254	12,946
15	SHEEP (INCLUDING FEEDERS) & GOATS	47	54
16	POULTRY - ALL TYPES	7	21
17	OTHER LIVESTOCK		
18	TOTAL PRODUCTIVE LIVESTOCK	\$ 47,697	\$ 52,840
19	CROP, SEED & FEED	\$ 59,506	\$ 59,801
20	POWER, MACHINERY AND EQUIPMENT		
21	AUTO & TRUCK (FARM SHARE)	\$ 4,767	\$ 5,763
22	POWER & MACHINERY	31,015	36,587
23	IRRIGATION EQUIPMENT	543	477
24	CUSTOM WORK EQUIPMENT		
25	LIVESTOCK EQUIPMENT	9,066	11,136
26	TOTAL POWER, MACHINERY & EQUIPMENT	\$ 45,391	\$ 53,963
27	LAND	161,544	167,294
28	BUILDINGS-FENCES-ETC.	52,522	65,053
29	TOTAL FARM CAPITAL	\$366,660	\$398,952
30	INCREASE OR DECREASE IN TOTAL FARM CAPITAL		\$ 32,291

TABLE 1 shows the beginning and end of year inventories of farm capital. These inventories include both the value of the operator's assets as well as the land-lord's in the case of rented assets. (TABLE 5 shows only the operator's share of farm capital.) Prices of Productive Livestock, and Crop, Seed and Feed reflect the physical amounts on hand at the beginning and end of year multiplied by a conservative market price at the time. Power, Machinery, and Equipment are priced at cost basis less depreciation. Land is valued at cost basis. Measures of farm size other than total farm capital are shown in lines 1 through 7. The concept of Work Units is discussed on page 16. The number of workers shown on line 7 includes operator(s), hired labor, unpaid family labor, and the labor portion of custom work hired.

TABLE 1. FARM INVENTORIES - 1979 (CONT.) - S.E.

ITEMS	17 Most*		17 Least*	
	Profitable Farms		Profitable Farms	
1 SIZE OF FARM-TOTAL ACRES	494.3		311.2	
2 -TILLABLE ACRES	443.3		277.9	
3 WORK UNITS-CROPS	221.96		140.47	
4 -LIVESTOCK	526.18		275.59	
5 -OTHER	13.09		8.23	
6 TOTAL SIZE OF BUSINESS IN WORK UNITS	761.23		424.28	
7 NUMBER OF WORKERS	2.16		2.09	
8 FARM CAPITAL INVESTMENT PER WORKER	\$249,794		\$272,820	
	JAN. 1	DEC. 31	JAN. 1	DEC. 31
9 PRODUCTIVE LIVESTOCK				
10 DAIRY COWS	\$ 21,930	\$ 24,394	\$ 13,996	\$ 15,489
11 OTHER DAIRY CATTLE	14,518	20,879	10,169	10,534
12 BEEF BREEDING CATTLE	929	744	1,012	1,106
13 BEEF FEEDER CATTLE	13,149	20,765	2,896	5,046
14 HOGS	19,497	17,058	15,478	13,986
15 SHEEP (INCLUDING FEEDERS) & GOATS			33	41
16 POULTRY - ALL TYPES				
17 OTHER LIVESTOCK				
18 TOTAL PRODUCTIVE LIVESTOCK	\$ 70,024	\$ 83,841	\$ 43,583	\$ 46,202
19 CROP, SEED & FEED	88,817	89,673	61,538	53,226
20 POWER, MACHINERY & EQUIPMENT				
21 AUTO & TRUCK (FARM SHARE)	\$ 6,759	\$ 8,680	\$ 4,019	\$ 4,379
22 POWER & MACHINERY	52,009	59,639	31,508	38,447
23 IRRIGATION EQUIPMENT				
24 CUSTOM WORK EQUIPMENT				
25 LIVESTOCK EQUIPMENT	15,708	15,468	7,410	10,357
26 TOTAL POWER, MACHINERY & EQUIPMENT	\$ 74,475	\$ 83,787	\$ 42,937	\$ 53,184
27 LAND	209,604	214,201	280,986	285,637
28 BUILDINGS-FENCES-ETC.	74,250	79,913	66,931	88,652
29 TOTAL FARM CAPITAL	\$517,169	\$551,415	\$495,975	\$526,900
30 INCREASE OR DECREASE IN TOTAL FARM CAPITAL		\$ 34,246		\$ 30,925

*ALL FARMS ARE SORTED INTO HIGH AND LOW CATEGORIES ON SIZE OF LABOR EARNINGS. FOR TABLES 1, 2A, 2B, 3, 8, and 9, THIS IS ON WHOLE FARM BASIS, TAKEN FROM TABLE 2B, LINE 46. FOR TABLES 4, 5, 6A and 6B, THIS IS ON OPERATOR'S SHARE BASIS, TAKEN FROM TABLE 6B, LINE 47.

TABLE 2A. TOTAL FARM RECEIPTS - 1979 - S.E.

ITEMS	Average of 83 Farms	17 Most Profitable Farms	17 Least Profitable Farms
1 SALE OF LIVESTOCK AND LIVESTOCK PRODUCTS			
2 DAIRY COWS	\$ 5,462	\$ 7,952	\$ 2,288
3 DAIRY PRODUCTS	43,610	72,582	27,071
4 OTHER DAIRY CATTLE	4,094	4,655	823
5 BEEF BREEDING CATTLE	813		33
6 BEEF FEEDER CATTLE	8,548	22,993	4,012
7 HOGS COMPLETE AND MIXED	25,410	38,475	28,178
8 HOGS FINISHING	7,194		2,671
9 HOGS PRODUCING WEANING PIGS	676		3,162
10 SHEEP, GOATS AND WOOL, FARM FLOCK	61		16
11 SHEEP AND WOOL, FEEDER LAMBS			
12 CHICKENS (INCL. HENS AND BROILERS)			
13 TURKEYS			
14 EGGS	316		
15 OTHER PRODUCTIVE LIVESTOCK AND PRODUCTS			
16 OTHER MISC. LIVESTOCK INCOME	15		73
17 TOTAL LIVESTOCK SALES	\$ 96,200	\$146,657	\$ 68,327
18 SALE OF CROPS			
19 WHEAT	\$ 267	\$ 115	\$ 91
19A DURUM			
20 OTHER SMALL GRAINS	566	1,021	326
21 CORN	22,250	31,635	29,651
22 SOYBEANS	14,552	26,384	17,024
22A SUNFLOWERS			
23 OTHER ROW CROPS	1,609	1,972	152
24 LEGUMES AND OTHER FORAGE	104		191
25 GRASS SEED			
26 FRUITS AND NUTS			
27 VEG. ROADSIDE MARKET AND SPECIALTY			
28 NURSERY, TIMBER AND OTHER	2,528	69	1,695
29 SET ASIDE ACRES-GOVERNMENT PAYMENTS	113	59	114
30 TOTAL CROP SALES	\$ 41,990	\$ 61,255	\$ 49,244
31 CAPITAL ASSETS SOLD	\$ 963	\$ 3,473	\$ 155
32 GAS TAX REFUND	193	229	202
33 INCOME FROM WORK OFF THE FARM	1,760	1,258	1,448
34 CUSTOM WORK ENTERPRISE INCOME			
35 PATRONAGE REFUNDS	1,530	2,617	1,060
36 MISCELLANEOUS FARM INCOME	1,287	2,084	833
37 TOTAL FARM SALES	\$143,922	\$217,574	\$121,269
38 INCREASE IN FARM CAPITAL	\$ 32,291	\$ 34,246	\$ 30,924
39 FAMILY LIVING FROM THE FARM	645	853	629
40 TOTAL FARM RECEIPTS (37)+(38)+(39)	\$176,858	\$252,673	\$152,822

SEE PAGE 14 FOR EXPLANATORY NOTE FOR THIS TABLE.

TABLE 2B. TOTAL FARM EXPENSES AND LABOR AND MANAGEMENT EARNINGS - 1979 - S.E.

ITEMS	Average of 83 Farms	17 Most Profitable Farms	15 Least Profitable Farms
1 PURCHASE OF LIVESTOCK			
2 DAIRY COWS	\$ 1,396	\$ 476	\$ 1,015
3 OTHER DAIRY CATTLE	1,019	901	284
4 BEEF BREEDING CATTLE	34		
5 BEEF FEEDER CATTLE	3,796	8,156	3,126
6 HOGS COMPLETE AND MIXED	1,059	381	3,258
7 HOGS FINISHING	2,585		1,188
8 HOGS PRODUCING WEANING PIGS	33		126
9 SHEEP AND GOATS	7		5
10 SHEEP, FEEDER LAMBS			
11 CHICKENS (INCL. HENS AND BROILERS)	61		
12 TURKEYS			
13 OTHER PRODUCTIVE LIVESTOCK			
14 MISCELLANEOUS LIVESTOCK EXPENSE	4,650	7,170	3,751
15 FEED BOUGHT	14,789	15,514	18,714
16 FERTILIZER	8,003	12,599	7,826
17 CHEMICALS	4,726	7,918	3,873
18 OTHER CROP EXPENSE	7,971	9,070	6,240
19 IRRIGATION OPERATION COSTS	55		
20 CUSTOM WORK ENTERPRISE OPERATOR COSTS, INCL. LABOR			
21 CUSTOM WORK HIRED	3,727	5,119	3,199
22 REPAIR + UPKEEP OF LIVESTOCK EQUIPMENT	1,488	1,924	1,395
23 REPAIR + UPKEEP OF FARM REAL ESTATE	2,022	2,444	2,017
24 GAS, OIL, GREASE BOUGHT (FARM SHARE)	4,590	6,090	4,424
25 REPAIR + OPERATION OF MACHINERY, TRACTOR, TRUCK AND AUTO	4,624	5,777	4,505
26 REPAIR + UPKEEP OF IRRIGATION EQUIPMENT	7		
27 REPAIRS, CUSTOM WORK ENTERPRISE			
28 WAGES OF HIRED LABOR	5,026	6,510	4,831
29 PERSONAL PROPERTY + REAL ESTATE TAXES	3,403	4,778	3,195
30 GENERAL FARM EXPENSE	2,162	2,571	2,108
31 TELEPHONE EXPENSE (FARM SHARE)	297	342	285
32 ELECTRICITY EXPENSE (FARM SHARE)	1,969	2,595	1,729
33 TOTAL CASH OPERATING EXPENSE	\$ 79,499	\$100,335	\$ 77,096
34 POWER, CROP AND GENERAL MACHINERY BOUGHT (FARM SHARE)	\$ 18,608	\$ 29,108	\$ 18,223
35 IRRIGATION EQUIPMENT BOUGHT			
36 CUSTOM WORK EQUIPMENT BOUGHT			
37 LIVESTOCK EQUIPMENT BOUGHT	4,391	2,763	5,103
38 NEW REAL ESTATE + IMPROVEMENT	24,550	21,415	32,891
39 TOTAL FARM PURCHASES (33) THRU (38)	\$127,048	\$153,620	\$ 133,313
40 DECREASE IN FARM CAPITAL	\$	\$	\$
41 INTEREST ON FARM CAPITAL	26,796	37,400	35,801
42 UNPAID FAMILY LABOR	902	446	1,411
43 LABOR CHARGE FOR PARTNERS + OTHER OPERATORS	2,581	4,235	2,824
44 BOARD FURNISHED HIRED LABOR	185	258	393
45 TOTAL FARM EXPENSE (39) THRU (44)	\$157,512	\$195,960	\$ 173,741
46 RETURN TO OPER. LABOR & MGMT.-SINGLE OPER. (WHOLE FARM) (2A/40)-(45)	\$ 19,347	\$ 56,714	\$(-20,919)
See page 14 for explanation of Lines 46 and 49			
48 FULL-TIME OPERATOR EQUIVALENTS	1.21	1.35	1.21
49 RETURN TO OPER. LABOR & MGMT./FULL-TIME OPER. EQUIVALENT	\$ 18,129	\$ 48,793	\$(-19,635)

TABLE 3. ENTERPRISE STATEMENT - 1979 - S.E.

ITEMS	Average of 83 Farms	17 Most Profitable Farms	17 Least Profitable Farms
1 RETURNS AND NET INCREASES			
2 PRODUCTIVE LIVESTOCK			
3 DAIRY COWS	\$ 44,606	\$ 74,584	\$ 25,007
4 OTHER DAIRY CATTLE	11,687	22,347	6,598
5 BEEF BREEDING CATTLE	1,495	789	327
6 FEEDER CATTLE	6,613	18,264	2,696
7 HOGS, COMPLETE AND MIXED	22,971	35,716	23,391
8 HOG FINISHING ENTERPRISE	3,517		1,435
9 HOGS PRODUCING WEANING PIGS	884		3,215
10 SHEEP AND GOATS	61		20
11 SHEEP, FEEDER LAMBS			
12 CHICKENS (INCL. HENS AND BROILERS)	270		
13 TURKEYS			
14 OTHER PRODUCTIVE LIVESTOCK			
15 TOTAL ALL PRODUCTIVE LIVESTOCK	\$ 92,104	\$151,699	\$ 62,689
16 VALUE OF FEED FED TO LIVESTOCK	42,723	60,981	39,956
17 RETURN OVER FEED FROM LIVESTOCK	49,381	90,718	22,733
18 CROP, SEED AND FEED	49,357	77,707	44,115
19 COOPERATIVE PATRONAGE REFUNDS	1,530	2,617	1,060
20 MISCELLANEOUS FARM INCOME	1,287	2,084	833
21 CUSTOM WORK ENTERPRISE			
22 TOTAL RETURNS AND NET INCREASES	\$101,555	\$173,126	\$ 68,741
23 EXPENSES AND NET DECREASES			
24 TRUCK AND AUTO (FARM SHARE)	\$ 4,923	\$ 7,037	\$ 3,994
25 TRACTORS AND CROP MACHINERY	17,202	26,304	16,560
26 IRRIGATION EQUIPMENT	73		
27 ELECTRICITY	1,969	2,595	1,729
28 LIVESTOCK EQUIPMENT	3,819	4,948	3,593
29 BUILDINGS, FENCES AND TILING	7,591	10,589	8,537
30 BARE LAND			
31 MISC. LIVESTOCK EXPENSE	4,650	7,170	3,751
32 LABOR	6,743	8,441	7,284
33 LABOR CHARGE FOR OTHER OPERATOR(S)	2,581	4,235	2,824
34 PROPERTY TAX	3,403	4,778	3,195
35 GENERAL FARM EXPENSE AND TELEPHONE	2,459	2,914	2,393
36 INTEREST ON FARM CAPITAL	26,796	37,400	35,801
37 TOTAL EXPENSES AND NET DECREASES	\$ 82,209	\$116,412	\$ 89,660
38 RETURN TO OPERATORS LABOR AND MANAGEMENT	\$ 19,347	\$ 56,714	\$(-20,919)

SEE PAGE 14 FOR EXPLANATORY NOTE FOR THIS TABLE.

TABLE 4. HOUSEHOLD & PERSONAL EXPENSE AND FAMILY LIVING FROM THE FARM - 1979 - S.E.

ITEMS	Average of 35 Farms	7 Most Profitable Farms	11 Least Profitable Farms
1 NUMBER OF PERSONS - FAMILY	4	4	4
2 NUMBER OF ADULT EQUIVALENT - FAMILY	3.1	3.7	3.2
3 CHURCH AND WELFARE	\$ 1,297	\$ 2,137	\$ 968
4 MEDICAL CARE AND HEALTH INSURANCE	1,658	2,232	1,088
5 FOOD AND MEALS BOUGHT	3,083	3,692	2,583
6 OPERATING EXPENSE AND SUPPLIES	1,081	1,674	1,029
7 FURNISHINGS AND EQUIPMENT	961	1,471	825
8 CLOTHING AND CLOTHING MATERIALS	1,042	844	869
9 PERSONAL CARE, PERSONAL SPENDING	478	240	417
10 EDUCATION	397	353	167
11 RECREATION	1,083	1,280	1,140
12 GIFTS AND SPECIAL EVENTS	947	1,006	533
13 PERSONAL SHARE TRUCK AND AUTO EXP.	691	573	568
14 OPER. SHARE UPKEEP ON DWELLING	1,044	2,674	893
14A CASH RENT - PERSONAL			
15 PERSONAL SHARE TEL. AND ELECT. EXP.	553	603	534
15A PERSONAL SHARE - GEN. FARM EXPENSE	8		22
16 TOTAL CASH LIVING EXPENSE	\$14,322	\$18,779	\$11,637
17 PERS. SHARE NEW TRUCK AND AUTO	813	732	1,145
18 NEW DWELLING BOUGHT	3,089	14,286	123
19 TAXES AND OTHER DEDUCTIONS	6,131	10,840	2,942
20 LIFE INSURANCE AND OTHER SAVINGS & INVEST.	5,403	2,740	3,634
21 TOTAL HOUSEHOLD AND PERSONAL (16)-(20)	\$29,758	\$47,377	\$19,480
22 TOTAL FAMILY LIVING FROM THE FARM (33)	805	1,202	733
23 TOTAL CASH & NON-CASH EXPENSES (21)+(22)	\$30,562	\$48,579	\$20,213
24	FAMILY LIVING FROM THE FARM		
25	QUANTITY	QUANTITY	QUANTITY
26 MILK AND CREAM (QUARTS)	671	781	855
27 BEEF AND BUFFALO (POUNDS)	821	1,723	384
28 PORK (POUNDS)	117	34	239
29 POULTRY, ALL FOWL (POUNDS)			
30 EGGS (DOZEN)			
31 TOTAL FAMILY LIVING FROM THE FARM	\$ 805	\$ 1,202	\$ 733

TABLE 4 reports the cash and non-cash expenses of the farm operator's household. Averages include only those members who kept household and personal accounts complete enough to include at least line 5 (food and meals bought). As a result, only 35 out of 83 farms were included in the averages. Accurate household and personal accounts are important if a family is to manage its financial affairs wisely and be able to check the accuracy of their financial account at the end of the year. If the family is unable or unwilling to keep accurate household records, then a household checking account separate from the farm checking account might be used.

TABLE 5. OPERATOR'S NET WORTH STATEMENT AND SUPPLEMENTARY FINANCIAL INFO. - 1979 - S.E.

ITEMS	Average of 46 Farms	
	Jan. 1	Dec. 31
1 TOTAL PRODUCTIVE LIVESTOCK	\$ 44,012	\$ 46,602
2 CROP, SEED AND FEED	46,544	49,618
3 TOTAL POWER, MACHINERY AND EQUIPMENT	35,994	41,608
4 LAND (ACRES OWNED 212.1) (TILLABLE 179.6)	55,602	64,790
5 BUILDINGS, FENCES, ETC.	41,983	49,953
6 TOTAL FARM CAPITAL	\$224,135	\$252,570
7 NON-FARM ASSETS	\$ 35,597	\$ 40,530
7A CASH ON HAND & IN BANK	7,483	6,900
8 DWELLING	17,244	17,416
9 TOTAL ASSETS	\$284,460	\$317,417
10 REAL ESTATE MORTGAGES	38,368	49,405
11 CHATTEL MORTGAGES	17,717	21,077
12 NOTES	10,932	13,580
13 ACCOUNTS PAYABLE	9,102	11,175
14 TOTAL LIABILITIES	\$ 76,120	\$ 95,237
15 FARMERS NET WORTH	\$208,340	\$222,179
16 GAIN (OR LOSS) IN NET WORTH		\$ 13,839
17 SUPPLEMENTARY FINANCIAL MANAGEMENT INFORMATION		
18 RETURN TO OPERATORS LABOR & MANAGEMENT (6B/47)	\$ 22,596	
19 RETURN TO CAPITAL AND FAMILY LABOR (6B/48)	33,021	
20 NON-FARM INCOME		
21 OUTSIDE INVESTMENT INCOME	1,787	
22 OTHER PERSONAL INCOME & INCOME TAX REFUND	3,373	
22A SALE OF PERSONAL SHARE - DWELLING, AUTO & TRUCK		
23 TOTAL NON-FARM INCOME	\$ 5,160	
24 TOTAL FAMILY FARM AND NON-FARM INCOME	\$ 38,180	
25 TOTAL MONEY BORROWED	\$ 36,240	
26 TOTAL PAID ON DEBT (PRINCIPAL)	\$ 17,122	
27 TOTAL HOUSEHOLD + PERSONAL CASH/NON-CASH EXP (4/23)	\$230,044	
28 RATIO TOTAL FARM EXP TO TOTAL FARM RCPTS OPER SHARE	.857	
	JAN. 1	DEC. 31
29 RATIO TOTAL ASSETS TO TOTAL LIABILITIES	3.737	3.333
30 RATIO NON-REAL EST. ASSETS TO NON-REAL EST. LIAB.	4.493	4.042
31 RATIO REAL EST. ASSETS TO REAL EST. LIAB.	2.993	2.675
32 RATIO NET WORTH TO TOTAL LIABILITIES	2.737	2.333
33 RATIO CASH OPER. EXP. TO ADJ. TOTAL FARM SALES (O.S.)		.657
34 RATIO TOTAL FARM RECEIPTS TO AVG. FARM CAPITAL (W.F.)		.506
35 RATIO TOTAL FARM RECEIPTS TO AVG. FARM CAPITAL (O.S.)		.662

TABLE 5 reports the assets, liabilities and resultant net worth position of the farm operator at the beginning and end of the year. (This asset list differs from TABLE 1 in that it includes the operator's non-farm assets and excludes the landlord's share of farm assets.) It also shows the change in net worth, or the growth in operator's equity (owned capital) during the year. Note that this TABLE 5 does not include addition to net worth resulting from appreciation in land values during the year, i.e., the same cost basis price per acre was assigned to both the beginning and the ending inventories of land. All depreciable assets, such as machinery, equipment, buildings, etc., are priced at cost basis minus depreciation, which does not take into consideration price appreciation due to inflation, (continued next page)

TABLE 5. OPERATOR'S NET WORTH STATEMENT AND SUPP. FINANCIAL INFO. - 1979 (CONT.) - S.E.

ITEMS	7 Most		5 Least	
	Profitable Farms		Profitable Farms	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
1 TOTAL PROD. LIVESTOCK	\$ 49,938	\$ 51,557	\$ 51,771	\$ 51,687
2 CROP, SEED AND FEED	70,512	71,615	18,412	19,675
3 TOT PWR MACH EQUIP	52,301	55,485	24,766	25,240
4* LAND	131,808	140,379	62,710	67,610
5 BLDG FENCES TILE, ETC.	55,297	53,718	52,786	57,364
6 TOTAL FARM CAPITAL	\$359,856	\$372,755	\$210,446	\$ 221,575
7 NON-FARM ASSETS	\$ 60,944	\$ 75,066	\$ 11,294	\$ 13,712
7A CASH ON HAND & IN BANK	6,415	8,970	4,762	2,762
8 DWELLING	10,131	10,842	22,534	22,534
9 TOTAL ASSETS	\$437,345	\$467,633	\$249,036	\$ 260,584
10 REAL EST. MORTGAGES	75,462	68,196	47,712	66,921
11 CHATTEL MORTGAGES	5,639	11,353	11,936	11,477
12 NOTES	8,595	7,583	12,821	14,987
13 ACCOUNTS PAYABLE	2,514	2,565	48,689	51,923
14 TOTAL LIABILITIES	\$ 92,210	\$ 89,697	\$121,158	\$ 145,307
15 FARMERS NET WORTH	\$345,136	\$377,936	\$127,878	\$ 115,277
16 GAIN (LOSS) NET WORTH		\$ 32,800		\$(-12,602)
17 SUPPLEMENTARY FINANCIAL INFORMATION				
18 RT OP LAB MGMT 6B/47	\$ 47,594		\$(-9,501)	
19 RT CAP FAM LAB 6B/48	64,540		(-3,689)	
20 NON-FARM INCOME				
21 OUTSIDE INV INCOME	3,021		712	
22 OTHER PER INC & TX RF	2,328		9,660	
22A SALE PER SHR-DWELLING				
23 TOT NON-FM INCOME	\$ 5,349		\$ 10,371	
24 TOT FAM FM & NON-FM INC	\$ 69,889		\$ 6,682	
25 TOTAL MONEY BORROWED	\$ 37,415		\$ 25,481	
26 TOT PD ON PRINCIPAL	\$ 39,928		\$ 1,332	
27 TOT HH & PER C & NC 4/23	\$ 33,917		\$ 16,414	
28 RATIO: TOT FM EX/REC OS	.748		1.101	
	JAN.1	DEC. 31	JAN. 1	DEC. 31
29 RATIO: TOT ASSET T/LIAB	4.743	5.123	2.055	1.793
30 RATIO: NON-RE ASSET T/LIAB	14.337	12.218	1.511	1.443
31 RATIO: RE ASSET/RE LIAB	2.614	3.005	2.893	2.204
32 RATIO: N WRTH/TOT LIAB	3.743	4.213	1.055	.793
33 RATIO: CA OP EX/AFSA OF		.524		.929
34 R: T FM REC/AV FM CAP WF		.482		.367
35 R: T FM REC/AV FM CAP OS		.515		.435

so for credit purposes the operator may wish to revalue those classes of assets. While TABLE 1 shows farm assets for all 83 farms included in the Association averages, TABLE 5 includes data from only those 46 sole proprietorships which had complete net worth data. Net worth data for partnerships were excluded when one analysis was done for the partnership and the partners did not supply information on their individually owned farm assets and liabilities.

* 7 Most Profitable Farms (Acres owned 347.1) (Tillable 299.6)
 5 Least Profitable Farms (Acres owned 131.8) (Tillable 98.6)

TABLE 6A. OPERATOR'S SHARE OF TOTAL FARM RECEIPTS - 1979 - S.E.

ITEMS	Average of 83 Farms	17 Most Profitable Farms	17 Least Profitable Farms
1 SALE OF LIVESTOCK AND LIVESTOCK PRODUCTS			
2 DAIRY COWS	\$ 5,462	\$ 9,167	\$ 2,200
3 DAIRY PRODUCTS	43,610	85,585	22,008
4 OTHER DAIRY CATTLE	4,094	6,150	775
5 BEEF BREEDING CATTLE	780		
6 BEEF FEEDER CATTLE	8,548	18,534	810
7 HOGS COMPLETE & MIXED	25,410	21,465	35,091
8 HOGS FINISHING	7,194	11,649	
9 HOGS PRODUCING WEANING PIGS	676	137	3,162
10 SHEEP, GOATS AND WOOL, FARM FLOCK	60		8
11 SHEEP AND WOOL, FEEDER LAMBS			
12 CHICKENS (INCL. HENS AND BROILERS)			
13 TURKEYS			
14 EGGS	316	1,122	
15 OTHER PRODUCTIVE LIVESTOCK & PRODUCTS			
16 OTHER MISCELLANEOUS LIVESTOCK INCOME	15		73
17 TOTAL SALES OF PRODUCTIVE LIVESTOCK	\$ 96,165	\$153,810	\$ 64,125
18 SALE OF CROPS			
19 WHEAT	\$ 227	\$ 115	
19A DURUM			
20 OTHER SMALL GRAIN	566	1,026	\$ 601
21 CORN	21,235	30,769	22,394
22 SOYBEANS	13,721	21,973	14,137
22A SUNFLOWERS			
23 OTHER ROW CROPS	1,609	1,829	362
24 LEGUMES & OTHER ROUGHAGE	104		191
25 GRASS SEED			
26 FRUITS & NUTS			
27 VEGETABLES, ROADSIDE MARKET & SPECIALTY			
28 NURSERY, TIMBER & OTHER	2,528		1,801
29 SET ASIDE ACRES - GOVERNMENT PAYMENTS	113	96	83
30 TOTAL SALES FROM CROPS	\$ 40,104	\$ 55,809	\$ 39,569
31 CAPITAL ASSETS SOLD	\$ 963	\$ 471	\$ 203
32 GAS TAX REFUND	190	208	194
33 INCOME FROM WORK OFF THE FARM	1,760	1,060	1,489
34 CUSTOM WORK ENTERPRISE INCOME			
35 PATRONAGE REFUNDS	1,529	2,605	805
36 MISCELLANEOUS FARM INCOME	1,284	2,266	1,357
37 TOTAL FARM SALES	\$141,996	\$216,230	\$107,743
38 INCREASE IN FARM CAPITAL	\$ 32,502	\$ 36,661	\$ 21,413
39 FAMILY LIVING FROM THE FARM	645	900	581
40 TOTAL FARM RECEIPTS (37)+(38)+(39)	\$175,143	\$253,791	\$129,737
41 ADJUSTED TOTAL FARM SALES (37)-(31)	141,032	215,758	107,539
42 TOTAL CASH FARM OPERATING EXPENSE	92,351	119,996	89,537
43 NET CASH OPERATING INCOME	\$ 48,682	\$ 95,762	\$ 18,002

SEE PAGE 14 FOR EXPLANATORY NOTE FOR THIS TABLE.

TABLE 6B. OPERATOR'S SHARE OF TOTAL FARM EXPENSES - 1979 - S.E.

ITEMS	Average of 83 Farms	17 Most Profitable Farms	17 Least Profitable Farms
1 PURCHASE OF LIVESTOCK			
2 DAIRY COWS	\$ 1,396	\$ 476	\$ 618
3 OTHER DAIRY CATTLE	1,019	580	171
4 BEEF BREEDING CATTLE	34		
5 BEEF FEEDER CATTLE	3,796	6,403	2,760
6 HOGS COMPLETE	1,059	351	3,308
7 HOGS FINISHING	2,585	5,053	
8 HOGS PRODUCING WEANING PIGS	33	32	126
9 SHEEP, FARM FLOCK	7		5
10 SHEEP, FEEDER LAMBS			
11 CHICKENS	61	298	
12 TURKEYS			
13 OTHER PRODUCTIVE LIVESTOCK			
14 MISCELLANEOUS LIVESTOCK EXPENSE	4,650	7,578	3,874
15 FEED BOUGHT	14,788	14,807	19,680
16 FERTILIZER	7,847	11,913	7,627
17 CHEMICALS	4,659	7,479	3,544
18 OTHER CROP EXPENSE	7,904	8,959	5,807
19 IRRIGATION OPERATION COST	52		254
20 CUSTOM WORK OPERATOR COSTS, INCL. LABOR			
21 CUSTOM WORK HIRED	3,722	4,838	2,941
22 REPAIR + UPKEEP OF LIVESTOCK EQUIPMENT	1,488	1,922	1,506
23 REPAIR + UPKEEP OF FARM REAL ESTATE	2,022	2,690	1,555
24 GAS, OIL, GREASE BOUGHT (FARM SHARE)	4,590	6,244	4,184
25 RPR & OPN MACH, TRAC, TRUCK, AUTO (FS)	4,624	5,956	4,285
26 REPAIR + UPKEEP OF IRRIGATION EQUIPMENT	7		33
27 REPAIRS, CUSTOM WORK ENTERPRISE			
28 WAGES OF HIRED LABOR	5,026	7,777	5,003
29 PERSONAL PROPERTY + REAL ESTATE TAXES	2,749	4,359	2,472
30 CASH RENT	5,400	5,990	5,031
31 GENERAL FARM EXPENSES	2,159	2,551	2,075
32 TELEPHONE EXPENSE (FARM SHARE)	295	321	285
33 ELECTRICITY EXPENSE (FARM SHARE)	1,964	2,711	1,775
34 INTEREST EXPENSE	8,414	10,706	10,616
35 TOTAL CASH OPERATING EXPENSE	\$ 92,351	\$ 119,996	\$ 89,537
36 POWER, CROP & GENERAL MACH. BOUGHT (FS)	18,608	31,246	19,027
37 IRRIGATION EQUIPMENT BOUGHT			
38 CUSTOM WORK ENTERPRISE EQUIPMENT BOUGHT			
39 LIVESTOCK EQUIPMENT BOUGHT	4,391	2,402	3,323
40 NEW REAL ESTATE + IMPROVEMENTS	24,550	17,082	24,238
41 TOTAL FARM PURCHASES (35) THRU (40)	\$ 139,899	\$ 170,725	\$ 136,125
42 DECREASE IN FARM CAPITAL			
43 INTEREST ON FARM CAPITAL (EQUITY)	12,378	25,750	8,067
44 UNPAID FAMILY LABOR	902	590	1,308
45 BOARD FURNISHED HIRED LABOR	182	258	393
46 TOTAL FARM EXPENSE (41) THRU (45)	\$ 153,361	\$ 197,323	\$ 145,893
47 RETURN TO OPERATOR LABOR & MANAGEMENT (OPERATORS SHARE) (6A/40)-(46)	\$ 21,781	\$ 56,469	\$ (-16,156)
48 RETURN TO CAPITAL AND FAMILY LABOR (47)+(44)+43)	\$ 35,061	\$ 82,809	\$ (-6,782)

SEE PAGE 14 FOR EXPLANATORY NOTE FOR THIS TABLE.

EXPLANATORY NOTES FOR TABLES 2A, 2B, 3, 6A, 6B

TABLES 2A & 2B comprise the earnings statement for the whole farm (including both operator's and landlord's shares). Lines 1 through 34 and line 36 of TABLE 2A show all sources of cash income to the farm. Line 38 reflects any increase in farm capital, while line 39 credits the business for any produce used by the family. Line 35 records the amount of patronage refunds credited to the business, part of which may have been received as cash and part as equity shares. TABLE 2B shows in lines 1 through 39 all cash expenses of the farm except principal and interest payments on farm debt. Note that cash rent is also not included, as it is an internal farm transaction between operator and landlord. Line 40 reflects any decrease in inventory while line 41 shows an interest return or charge of 6% for all farm capital. Line 46, Labor Earnings, represents the return for the operator's labor and management after all expenses (cash, accrual and imputed) are deducted. In the case of partnerships, line 43 assigns a fixed return to one partner, with the residual return going to the other (line 46). In line 49, the fixed return to one partner is added back to the residual (line 46) and that number is divided equally among the partners.

TABLE 3 represents another way of categorizing and reporting the receipts, expenses and labor earnings of the total farm business. In lines 2-21, cash receipts are adjusted for changes in inventory for each production enterprise, thus giving a better picture of the "value produced" contribution of each enterprise. In lines 24-30, each category of cash expense is adjusted for inventory. Line 33, fixed return to one partner, and line 36, interest charge on farm capital, are handled in the same manner as comparable items were in TABLE 2B (lines 43 and 41, respectively). Although calculated in a different way, the resulting labor earnings (line 38) is equal to that in TABLE 2B (line 46). Lines 24, 25, 28, and 29 actually report the sum of four cost items for each of these categories of capital assets. They are: depreciation; gas, oil, and grease bought; repair and operation cost; and share of custom work hired that was attributed to this category of asset (i.e., 80% of milk hauling cost might be attributed to truck and auto expense. While depreciation cannot be calculated directly from these tables, it can be approximated by the calculation: beginning inventory (TABLE 1) plus asset bought (TABLE 2B) minus ending inventory (TABLE 1). The number missing for a complete depreciation calculation is capital asset sales, which is not given for each category of assets in these tables (but is given for all assets in TABLE 2A).

TABLES 6A & 6B constitute the earnings statement for the operator. TABLES 6A & 6B therefore, are similar to TABLES 2A & 2B, except 6A & 6B exclude the landlord's share of income and expenses. Thus for the full owner-operator, TABLES 2A & 6A should be identical through line 40. TABLES 2B and 6B differ in that 6B includes cash rent paid (line 30) and interest paid on borrowed money (line 34). Line 43 of TABLE 6B thus contains an interest charge on only the operator's equity farm capital, whereas in line 41, TABLE 2B, interest was charged on all farm capital. Line 48 of TABLE 6B thus represents return to operator and family unpaid labor and management and equity capital. When money spent on family living is subtracted from line 48, the remainder plus non-farm income should be equal to the increase in net worth, shown in line 16 of TABLE 5.

SUPPLEMENTARY INFORMATION USED IN ENTERPRISE ANALYSIS - 1979 - S.E.

A. Number of Work Units for Crop and Livestock Enterprises

Livestock Enterprise	Work Units	Crop Enterprise	Work Units Per Acre
Hogs, Farrow-to-Finish	.12/cwt	Oats, Spring Wheat	.30
Hog Finishing	.06/cwt	Corn for Grain	.55
Hogs, Mixed Systems	.12/cwt	Soybeans	.45
Dairy Cows	7.00/cow	Canning Corn	.50
Other Dairy Cattle	1.20/head	Canning Peas	.40
Beef Breeding Cows	1.50/head	Alfalfa Hay, Corn Silage	.60
Beef Feeder Cattle	.12/cwt	Oats Silage	.40
		Legume Pastures	.05
		Non-Tillable Prairie Pasture	.01
		Set Aside - Tilled	.20

B. Average Prices Used in Analysis

Product	Feed	Harvest	Beginning Inventory	Ending Inventory	Pasture/head/mo.	
					till.	non-till
Oats/bu.	\$ 1.25	\$ 1.10	\$ 1.25	\$ 1.25	Cows	\$8.00 \$6.00
Wheat/bu.	3.30	3.70	3.00	4.00	Calves	4.00 3.00
Corn for Grain/bu.	2.10	2.10	1.90	2.20	Hogs	1.00 0.75
Soybeans/bu.	--	6.00	6.50	6.25	Products Used at Home	
Alfalfa Hay/ton	40.00	40.00	40.00	40.00	Straw	\$1.25/bale
All other Hay/ton	30.00	30.00	35.00	30.00	Milk	1.20/gal.
Corn Silage/ton	15.00	15.00	15.00	15.00	Cream	1.40/qt.
Oats Silage/ton	13.00	13.00	14.00	13.00	Eggs	.60/doz.

Unpaid family labor \$700/mo. or \$3.50/hr. or \$35/day.

Board for hired labor \$6/day or \$2.00/meal.

Second Operator's labor \$12,000/yr.

C. Animal or Livestock Units Used in Analysis

Enterprise	Per Adult	Per Other
All Hog Enterprises	.40	.20
Dairy Cows	1.00	.50
Other Dairy Cattle	1.00	.50
Beef Breeding Cattle	0.80	0.30
Beef Feeder Cattle	1.00	1.00

DESCRIPTION OF MEASURES OF FARM ORGANIZATION AND MANAGEMENT EFFICIENCY

The following explanations and definitions are for use in interpreting Table 8 and the Thermometer Chart.

1. Labor Earnings - A measure of the relative financial return for the operator's labor taking into account all income and expense, cash and non-cash, including a charge for the use of farm capital. This is based on the whole farm business and is found in Table 2B and Table 3.
2. Crop Yield Index - A measure of the crop yield level for all crops produced expressed as a percentage of the Association average.
3. Percent of Tillable Land in High Return Crops - A measure of crop selection based on a rating of individual crops. Crop ratings take into account such things as dollar return, effect on soil, TDN yield, labor required, etc. Ratings can be found on Table 9.
4. Gross Return Per Acre - An additional measure of crop selection based on total production times and average price for the crops.
5. Return per \$100 Feed Fed to Productive Livestock - Measures the general level of efficiency for all livestock. It is expressed as a percentage of the Association average and combines the individual index for all livestock enterprises on the farm into one figure.
6. Livestock Units Per 100 Acres - A measure of livestock density or population. Unit values are assigned to the various classes of livestock.
7. Size of Business - Work Units - A measure of the size of farm business, or total work load. A work unit represents the average accomplishment of a worker in one 10 hour day. Work Unit values are assigned to each class of livestock, each crop, and to other tasks utilizing farm labor. Total work units may also be interpreted differently for different farm situations such as work efficiency, degree of mechanization, careful planning, or hours worked. While it does not measure how hard a farmer works, it does measure how much is being accomplished on the farm.
8. Work Units Per Worker - Measures labor efficiency. Total work units divided by the number of workers including the operator, hired labor, and family labor.
9. Power, Machinery, Equipment and Building Expense Per Work Unit - A measure of expense control. It is the total cost of items listed in Table 3 divided by the number of work units.
10. Farm Capital Investment Per Worker - Indicates size of business. Useful in comparing a farm business to other industries or businesses.

Other items listed on Table 8 are related to the above measures and serve to further define and describe the efficiency level of a farm business. Note should be taken that items listed in Table 8 and the Thermometer Chart are to be considered in light of the individual farm and farm operator. Although in general, an above-average level for each factor listed would indicate an above average earnings, this may not be true when individual farms are considered. The inter-relationship of factors varies from farm to farm.

TABLE 8. MEASURES OF FARM ORGANIZATION AND EFFICIENCY - 1979 - S.E.

ITEMS	Average of 83 Farms	17 Most Profitable Farms	17 Least Profitable Farms
1 RETURN TO OPERATORS LABOR & MANAGEMENT	\$19,347	\$ 56,714	\$(-20,919)
2 CROP YIELD INDEX	100.0	102.1	97.9
3 PERCENT TILLABLE LAND IN HIGH RETURN CROPS	80.2	81.5	81.9
4 GROSS RETURN PER TILL ACRE (EXCL. PASTURE)	\$ 223.57	\$ 232.27	201.28
5 RET PER \$100 FEED FED PROD LVSTOCK INDEX	100.0	115.0	77.7
6* LIVESTOCK UNITS PER 100 ACRES	37.74	41.58	34.60
7 SIZE OF BUSINESS - WORK UNITS	509.58	761.23	424.28
8 WORK UNITS PER WORKER	266.80	352.42	203.00
9 PWR MACH EQUIP BLDG EXPENSE/WORK UNIT	\$ 69.81	\$ 67.62	\$ 81.11
10 FARM CAPITAL INVESTMENT PER WORKER	\$200,422	\$247,358	\$ 244,707
11 INDEX OF RETURN PER \$100 FEED FED			
12 6100 BEEF BREEDING FARM, WHOLE HRD, COM	100.0	140.1	74.1
13 6140 BEEF FEEDERS, FEEDLOT	100.0	121.8	65.2
14 6290 DAIRY COWS, COMMERCIAL, GENERAL	100.0	110.2	69.8
15 6318 OTHER DAIRY, COMMERCIAL, REPL.	100.0	119.7	80.5
16 6470 HOGS, FARROW-TO-FINISH, GENERAL	100.0	114.9	85.0
17 6490 HOGS, FINISHING	100.0	--	70.3
18 6530 HOGS, MIXED SYSTEMS	100.0	81.9	72.8
30 NUMBER OF ANIMAL UNITS	116.62	184.32	96.15
31 WORK UNITS			
32 CROPS	154.36	221.96	140.47
33 PRODUCTIVE LIVESTOCK	341.60	526.18	275.59
34 OTHER PRODUCTIVE WORK UNITS	13.61	13.09	8.23
35 EXPENSES PER WORK UNIT:			
36 TRACTOR & CROP MACHINERY EXPENSE	\$ 33.90	\$ 34.55	\$ 39.03
37 FARM SHARE OF AUTO & TRUCK EXPENSE	9.66	9.24	9.41
38 FARM SHARE OF ELECTRIC EXPENSE	3.86	3.41	4.08
39 LIVESTOCK EQUIPMENT EXPENSE	7.49	6.50	8.47
40 BUILDING, FENCE & TILING EXPENSE	14.90	13.91	20.12
41** TRACTOR & CROP MACH EXPENSE/CROP ACRE	56.01	59.34	59.59
42 FARM PWR & MACH COST ALLOC TO LIVESTOCK	3,922.80	5,459.09	4,042.72
43 BUILDING, FENCE & TILE COST ALLOC TO CROPS	2,750.71	4,051.93	3,531.71
46 MARKETING INDEX	100.0	103.96	98.71

* ACRES INCLUDE ALL TILLABLE LAND, NON-TILLABLE HAY & PASTURE

** ACRES INCLUDE ALL TILLABLE LAND, PLUS ACRES IN NON-TILLABLE HAY

THERMOMETER CHART - 1979 - S.E.

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 farms included in this summary are located between the dotted lines across the center of the chart.

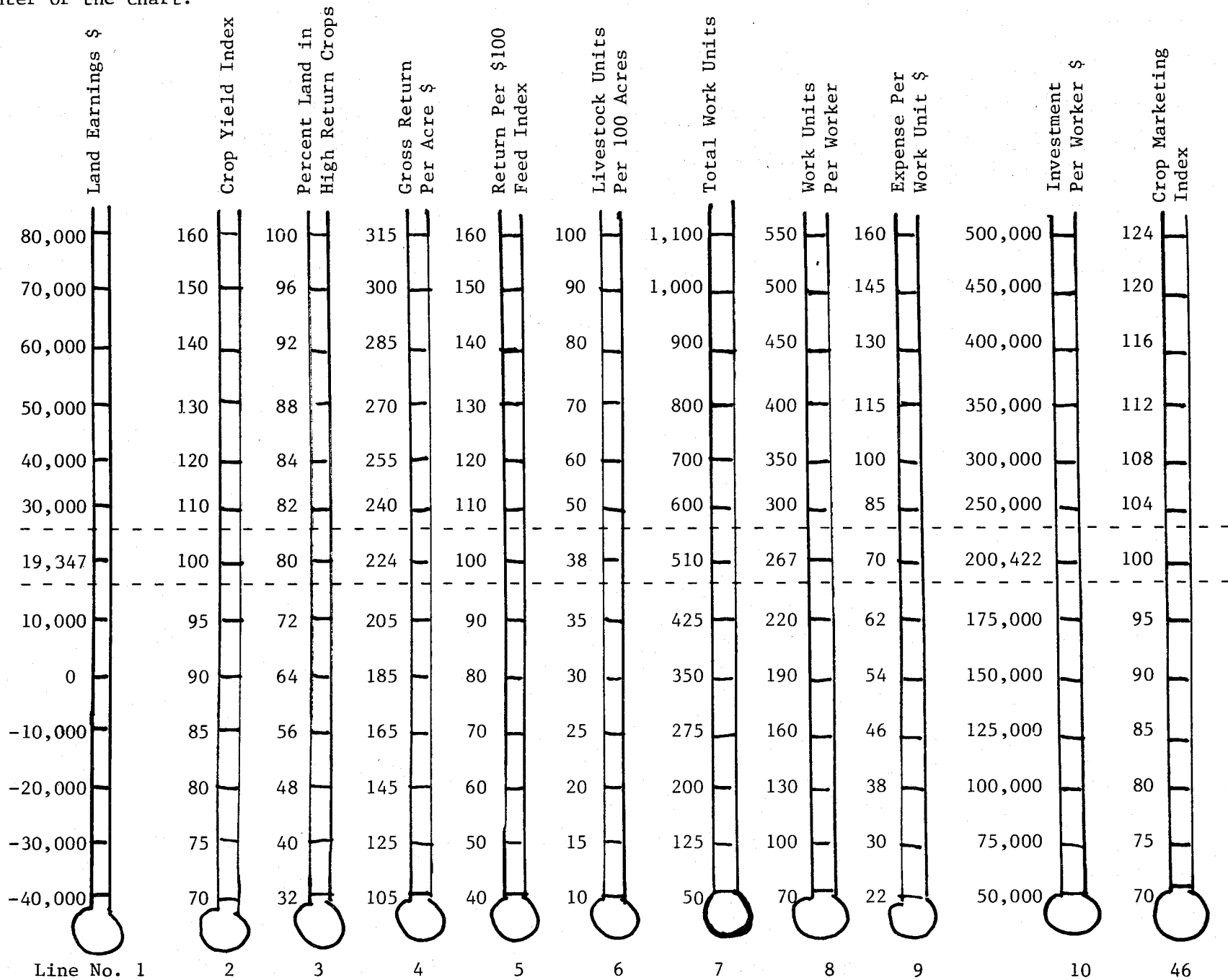


TABLE 9. CROP ACRES, YIELDS, RETURNS AND SUPPLEMENTARY MANAGEMENT INFORMATION - 1979 - SE

CROP	Average	17 Most	17 Least
	of 83 Farms	Profitable Farms	Profitable Farms
	acres	acres	acres
SMALL GRAIN & CANNING PEAS	19.0	24.2	11.4
ROW CROPS	210.8	311.4	197.9
LEGUMES, INCLUDING SEED	42.2	62.4	26.6
OTHER HAY	.3		.6
SILAGE AND FODDER	14.5	26.3	9.9
TILLABLE PASTURE	8.2	15.0	2.2
GRASS CROPS	8.9		27.1
FALLOW AND IDLE LAND	3.1	4.0	2.1
TILLABLE LAND	307.0	443.3	277.8
NON-TILLABLE HAY/PASTURE	2.0		
WILD HAY NOT HARVESTED (NON-TILLABLE)	1.9	.2	
PASTURE NOT HARVESTED	6.7	14.6	6.9
TIMBER NOT HARVESTED	11.5	12.5	9.4
ROADS AND WASTE	11.2	13.3	7.2
FARMSTEAD	8.6	10.4	9.8
LAND NOT HARVESTED	39.9	51.0	33.3
NON-TILLABLE LAND	41.9	51.0	33.3
LAND IN FARM OR RANCH	348.9	494.3	311.1
SUPPLEMENTARY MANAGEMENT INFORMATION			
PERCENT LAND TILLABLE	88.0	89.7	89.3
PERCENT LAND IN HIGH RETURN CROPS	80.2	81.5	81.9
FERTILIZER COST PER ACRE	24.31	25.12	26.10
CROP CHEMICALS PER ACRE	13.37	14.50	13.17
SEED AND OTHER COSTS PER ACRE	20.74	21.14	17.15
GAS, OIL AND GREASE BOUGHT PER ACRE	11.44	10.31	12.22

Crop	Crop Rank	No. Farms Growing	Acres Per Farm	Total Acres	Avg. Yield Per Acre.	Return Over Cash Costs Per Acre ^{a/}
Oats	D	45	27.2	1,224	66.1 bu.	\$ 43
Spring Wheat	C	6	18.0	108	30.8 bu.	79
Corn for Grain	A	81	148.1	11,996	119.4 bu.	136
Soybeans	A	49	98.1	4,807	39.0 bu.	173
Canning Corn	B	4	109.0	436	\$256.00	160
Canning Peas	B	6	16.2	97	\$172.28	146
Alfalfa Hay	B	57	57.5	3,278	4.4 tons	117
Oat Silage	C	9	29.7	267	6.7 tons	54
Corn Silage	A	43	21.8	937	17.2 tons	158
Legume Pasture	D	28	23.8	666	\$ 43.95	40
Non-Tillable Pasture	D	5	32.4	162	\$ 21.17	21
Set Aside-Tilled	B	14	20.0	280	\$ 31.20	28

^{a/}Total crop return (line 6, crop tables) minus direct costs (line 14) and machinery operation (line 18).

DESCRIPTION OF CROPS TABLES

The following tables for each individual crop represent an attempt to calculate the costs and returns for these enterprises. Returns include the value of the crop produced -- line 4 -- (which was calculated as measured yield multiplied by a common harvest-time price -- see footnote for exceptions) plus other crop income. The latter has two components: a cash component, such as diverted acre payments, deficiency payments, crop insurance payments for a loss, sale of a by-product (such as straw) etc.; and a non-cash component, which is the operator's estimate of the value of straw, corn stalks, and other crop by-products and residues used in livestock enterprises.

Two categories of costs are calculated. The first consists of costs that are "directly" attributable to that crop, such as fertilizer, chemicals, seed, etc., and are normally recorded on pages 38-39 of the Account Book. These are normally all cash costs, although some may have been actually paid in a previous year, i.e., fertilizer paid for last year but used on this year's crop. Thus the sum of fertilizer costs for all crops may not necessarily equal total fertilizer purchased in the current year as reported in TABLES 2B and 6B. The costs in this "direct" category may also be called variable costs, in two ways. The first is in that the level of these costs per acre can be varied by the farmer, such as varying the amount of fertilizer per acre, etc. The second is in that the total of these costs usually vary in direct proportion to the number of acres grown. For example, if 10% fewer acres of corn were planted, expenses for corn seed and fertilizer might decrease by 10%. The second category of costs represents an attempt to "allocate" some costs that are not easily attributable to a specific enterprise. Some are cash costs and others are non-cash, some are variable and others are fixed or overhead costs. For example, the ownership cost of farm power and machinery consists of depreciation, which is a non-cash, fixed cost that continues even if corn acreage is cut back by 10%. In contrast, the operation cost of farm power and machinery, which, includes fuel, lubricants, and repair, is a cash variable cost.

The power and machinery costs (both ownership and operation) were allocated among crop (and livestock when present) enterprises on the basis of work units. The ownership costs and the total operation costs are each divided by the sum of total crop work units plus one-tenth of the total livestock work units (or one-twelfth if livestock work units are greater than 400) because livestock uses relatively less power per work unit than crops. The resulting ownership cost per work unit is then multiplied by the standard work unit per acre figure to obtain the allocated cost per acre. The same procedure is followed for operation costs. If the operator feels that this procedure does not adequately reflect his relative use of power among enterprises, or if he wants some enterprises to carry a relatively heavier cost burden than others, then he may modify the allocation by the use of different values for the Power Cost Allocation Factor (PCAF).

Land cost shown is an attempt to measure the opportunity cost of the land. For the tenant, the cash rent or equivalent was reported. For the owner-operator, the amount that could be received for renting out the land was obtained. Interest on machinery and equipment investment was calculated at 6% on the average amount held during the year (beginning plus ending inventories divided by two).

TABLE 10-0105 - CROP DATA FOR OATS - FEED - 1979 - S.E.

ITEMS	Average of 45 Farms	15 Farms Highest in Yield	15 Farms Lowest in Yield
1 ACRES	27.2	27.9	30.9
2 YIELD PER ACRE, BUSHELS	66.1	90.3	46.0
3 VALUE PER BUSHEL	\$ 1.11	\$ 1.11	\$ 1.12
4 CROP PRODUCT RETURN	73.38	100.22	51.55
5 OTHER CROP INCOME	3.13	1.97	1.20
6 TOTAL CROP RETURN PER ACRE	\$ 76.51	\$ 102.19	\$ 52.75
7 DIRECT COSTS PER ACRE			
8 FERTILIZER	\$ 4.78	\$ 5.27	\$ 6.73
9 CHEMICALS	.07		.16
10 SEED & OTHER	8.68	10.32	6.76
11 SPECIAL HIRED LABOR	.11		.29
12 CUSTOM WORK HIRED	4.41	3.94	3.37
13 IRRIGATION OPERATION			
14 TOTAL DIRECT COSTS PER ACRE	\$ 18.05	\$ 19.53	\$ 17.31
15 RETURN OVER DIRECT COSTS PER ACRE	\$ 58.46	\$ 82.66	\$ 35.44
16 ALLOCATED COSTS PER ACRE			
17 FARM POWER & MACHINERY - OWNERSHIP	\$ 21.55	\$ 24.77	\$ 17.86
18 FARM POWER & MACHINERY - OPERATION	15.30	14.98	15.05
19 IRRIGATION EQUIPMENT - OWNERSHIP			
20 LAND COSTS	68.33	69.33	68.67
21 MISCELLANEOUS COSTS			
22 INTEREST ON MACH. & EQUIP. INVESTMENT	4.80	5.42	4.36
23 TOTAL ALLOCATED COSTS PER ACRE	\$ 109.98	\$ 114.50	\$ 105.94
24 RETURN OVER ALL LISTED COSTS PER ACRE	\$(-51.52)	\$(-31.84)	\$(-70.50)
25 SUPPLEMENTARY MANAGEMENT INFORMATION			
26 WORK UNITS ASSIGNED PER ACRE	.30	.30	.30
27 POWER COSTS ALLOCATION FACTOR	.99	.97	1.00
28 TOTAL LISTED COSTS PER BUSHEL	\$ 1.94	\$ 1.48	\$ 2.68
29 RETURN OVER LISTED COSTS PER BUSHEL	\$ (-.78)	\$ (-1.35)	\$ (-1.53)
30* BREAK-EVEN YIELD, BUSHELS	115.34	120.75	110.04
30A EST. TOTAL MACHINE COSTS PER ACRE	\$ 44.59	\$ 47.80	\$ 39.52
31 TOTAL LISTED COSTS PER ACRE	\$ 128.03	\$ 134.03	\$ 123.25

* TO COVER TOTAL LISTED COSTS PER ACRE (LINE 31) AT PRICE GIVEN IN LINE 3.

TABLE 10-0195 - CROP DATA FOR SPRING WHEAT - 1979 - S.E.

ITEMS	Average of 6 Farms
1 ACRES	18.0
2 YIELD PER ACRE, BUSHEL	30.8
3 VALUE PER BUSHEL	\$ 3.70
4 CROP PRODUCT RETURN	113.89
5 OTHER CROP INCOME	
6 TOTAL CROP RETURN PER ACRE	\$ 113.89
7 DIRECT COSTS PER ACRE	
8 FERTILIZER	\$ 7.44
9 CHEMICALS	.33
10 SEED & OTHER	8.94
11 SPECIAL HIRED LABOR	
12 CUSTOM WORK HIRED	6.89
13 IRRIGATION OPERATION	
14 TOTAL DIRECT COSTS PER ACRE	\$ 23.60
15 RETURN OVER DIRECT COSTS PER ACRE	\$ 90.29
16 ALLOCATED COSTS PER ACRE	
17 FARM POWER & MACHINERY - OWNERSHIP	\$ 19.31
18 FARM POWER & MACHINERY - OPERATION	11.74
19 IRRIGATION EQUIPMENT - OWNERSHIP	
20 LAND COSTS	68.33
21 MISCELLANEOUS COSTS	
22 INTEREST ON MACH. & EQUIP. INVESTMENT	5.57
23 TOTAL ALLOCATED COSTS PER ACRE	\$ 104.95
24 RETURN OVER ALL LISTED COSTS PER ACRE	\$(-14.66)
25 SUPPLEMENTARY MANAGEMENT INFORMATION	
26 WORK UNITS ASSIGNED PER ACRE	.30
27 POWER COSTS ALLOCATION FACTOR	1.00
28 TOTAL LISTED COSTS PER BUSHEL	\$ 4.18
29 RETURN OVER LISTED COSTS PER BUSHEL	\$ (-.48)
30* BREAK-EVEN YIELD, BUSHEL	34.74
30A EST. TOTAL MACHINE COSTS PER ACRE	\$ 41.22
31 TOTAL LISTED COSTS PER ACRE	\$ 128.55

* TO COVER TOTAL LISTED COSTS PER ACRE (LINE 31) AT PRICE GIVEN IN LINE 3.

TABLE 10-0275 - CROP DATA FOR CORN FOR GRAIN - 1979 - S.E.

ITEMS	Average of 81 Farms	16 Farms Highest in Yield	16 Farms Lowest in Yield
1 ACRES	148.1	165.6	124.2
2 YIELD PER ACRE, BUSHELS	119.4	141.9	91.7
3 VALUE PER BUSHEL	\$ 2.10	\$ 2.09	\$ 2.10
4 CROP PRODUCT RETURN PER ACRE	250.70	296.54	192.48
5 OTHER CROP INCOME PER ACRE	.42	.16	.63
6 TOTAL CROP RETURN PER ACRE	\$251.12	\$296.70	\$193.11
7 DIRECT COSTS PER ACRE			
8 FERTILIZER	\$ 37.20	\$ 39.82	\$ 32.96
9 CHEMICALS	17.19	18.68	15.44
10 SEED & OTHER	29.46	29.03	24.77
11 SPECIAL HIRED LABOR	1.24	5.02	
12 CUSTOM WORK HIRED	5.97	5.78	4.80
13 IRRIGATION OPERATION			
14 TOTAL DIRECT COSTS PER ACRE	\$ 91.06	\$ 98.33	\$ 77.97
15 RETURN OVER DIRECT COSTS PER ACRE	\$160.06	\$198.37	\$115.14
16 ALLOCATED COSTS PER ACRE			
17 FARM POWER & MACHINERY - OWNERSHIP	\$ 32.73	\$ 30.60	\$ 26.62
18 FARM POWER & MACHINERY - OPERATION	24.42	22.79	21.11
19 IRRIGATION EQUIPMENT - OWNERSHIP			
20 LAND COSTS	69.04	74.06	66.25
21 MISCELLANEOUS COSTS			
22 INTEREST ON MACH. & EQUIP. INVESTMENT	7.86	8.49	6.78
23 TOTAL ALLOCATED COSTS PER ACRE	\$134.05	\$135.94	\$120.76
24 RETURN OVER ALL LISTED COSTS PER ACRE	\$ 26.01	\$ 62.43	\$(-5.62)
25 SUPPLEMENTARY MANAGEMENT INFORMATION			
26 WORK UNITS ASSIGNED PER ACRE	.55	.55	.55
27 POWER COSTS ALLOCATION FACTOR	.96	.93	.99
28 TOTAL LISTED COSTS PER BUSHEL	\$ 1.89	\$ 1.65	\$ 2.17
29 RETURN OVER LISTED COSTS PER BUSHEL	\$.22	\$.44	\$ (-.06)
30* BREAK-EVEN YIELD, BUSHELS	107.20	112.09	94.63
30A EST. TOTAL MACHINE COSTS PER ACRE	\$ 68.99	\$ 65.74	\$ 57.71
31 TOTAL LISTED COSTS PER ACRE	\$225.11	\$234.27	\$198.73

* TO COVER TOTAL LISTED COSTS PER ACRE (LINE 31) AT PRICE GIVEN IN LINE 3.

TABLE 10-0335 - CROP DATA FOR SOYBEANS - 1979 - S.E.

ITEMS	Average of 49 Farms	16 Farms Highest in Yield	16 Farms Lowest in Yield
1 ACRES	98.1	86.0	73.1
2 YIELD PER ACRE, BUSHELS	39.0	47.2	29.2
3 VALUE PER BUSHEL	\$ 6.00	\$ 6.00	\$ 6.01
4 CROP PRODUCT RETURN PER ACRE	234.01	283.12	175.20
5 OTHER CROP INCOME PER ACRE	3.59		13.47
6 TOTAL CROP RETURN PER ACRE	\$237.60	\$283.12	\$188.67
7 DIRECT COSTS PER ACRE			
8 FERTILIZER	\$ 7.23	\$ 5.14	\$ 6.21
9 CHEMICALS	18.81	19.94	18.71
10 SEED & OTHER	12.63	10.83	14.99
11 SPECIAL HIRED LABOR	1.47	3.10	
12 CUSTOM WORK HIRED	4.52	6.00	4.82
13 IRRIGATION OPERATION			
14 TOTAL DIRECT COSTS PER ACRE	\$ 44.66	\$ 45.01	\$ 44.73
15 RETURN OVER DIRECT COSTS PER ACRE	\$192.94	\$238.11	\$143.94
16 ALLOCATED COSTS PER ACRE			
17 FARM POWER & MACHINERY - OWNERSHIP	\$ 25.05	\$ 20.51	\$ 26.16
18 FARM POWER & MACHINERY - OPERATION	20.09	20.59	21.24
19 IRRIGATION EQUIPMENT - OWNERSHIP			
20 LAND COSTS	70.14	73.44	67.63
21 MISCELLANEOUS COSTS			
22 INTEREST ON MACH. & EQUIP. INVESTMENT	6.26	5.70	6.24
23 TOTAL ALLOCATED COSTS PER ACRE	\$121.54	\$120.24	\$121.27
24 RETURN OVER ALL LISTED COSTS PER ACRE	\$ 71.40	\$117.87	\$ 22.67
25 SUPPLEMENTARY MANAGEMENT INFORMATION			
26 WORK UNITS ASSIGNED PER ACRE	.45	.45	.45
27 POWER COSTS ALLOCATION FACTOR	.99	.99	.97
28 TOTAL LISTED COSTS PER BUSHEL	\$ 4.26	\$ 3.50	\$ 5.69
29 RETURN OVER LISTED COSTS PER BUSHEL	\$ 1.83	\$ 2.50	\$.78
30* BREAK-EVEN YIELD, BUSHELS	27.70	27.54	27.62
30A EST. TOTAL MACHINE COSTS PER ACRE	\$ 54.41	\$ 50.80	\$ 56.85
31 TOTAL LISTED COSTS PER ACRE	\$166.20	\$165.25	\$166.00

* TO COVER TOTAL LISTED COSTS PER ACRE (LINE 31) AT PRICE GIVEN IN LINE 3.

TABLE 10-0260 - CROP DATA FOR CANNING CORN - 1979 - S.E.

ITEMS	Average of 4 Farms
1 ACRES	109.0
2 YIELD PER ACRE, DOLLARS	\$256.02
3 VALUE PER PRODUCTION UNIT	1.00
4 CROP PRODUCT RETURN	256.02
5 OTHER CROP INCOME	
6 TOTAL CROP RETURN PER ACRE	\$256.02
7 DIRECT COSTS PER ACRE	
8 FERTILIZER	\$ 28.34
9 CHEMICALS	17.94
10 SEED & OTHER	14.59
11 SPECIAL HIRED LABOR	
12 CUSTOM WORK HIRED	16.27
13 IRRIGATION OPERATION	
14 TOTAL DIRECT COSTS	\$ 77.14
15 RETURN OVER DIRECT COSTS	\$178.88
16 ALLOCATED COSTS PER ACRE	
17 FARM POWER & MACHINERY - OWNERSHIP	\$ 28.53
18 FARM POWER & MACHINERY - OPERATION	18.63
19 IRRIGATION EQUIPMENT - OWNERSHIP	
20 LAND COSTS	66.25
21 MISCELLANEOUS COSTS	
22 INTEREST ON MACH. & EQUIP. INVESTMENT	6.99
23 TOTAL ALLOCATED COSTS	\$120.40
24 RETURN OVER ALL LISTED COSTS	\$ 58.48
25 SUPPLEMENTARY MANAGEMENT INFORMATION	
26 WORK UNITS ASSIGNED PER ACRE	.50
27 POWER COSTS ALLOCATION FACTOR	.85
28 TOTAL LISTED COST PER UNIT OF PRODUCTION	\$.77
29 RETURN OVER LISTED COSTS PER DOLLAR	\$.23
30* BREAK-EVEN YIELD, DOLLARS	\$197.54
30A EST. TOTAL MACHINE COSTS PER ACRE	\$ 65.00
31 TOTAL LISTED COSTS PER ACRE	\$197.54

* TO COVER TOTAL LISTED COSTS PER ACRE (LINE 31) AT PRICE GIVEN IN LINE 3.

TABLE 10-0365 - CROP DATA FOR CANNING PEAS - 1979 - S.E.

ITEMS	Average of 6 Farms
1 ACRES	16.2
2 YIELD PER ACRES, DOLLARS	\$172.28
3 VALUE PER PRODUCTION UNIT	1.00
4 CROP PRODUCT RETURN	172.28
5 OTHER CROP INCOME	
6 TOTAL CROP RETURN PER ACRE	\$172.28
7 DIRECT COSTS PER ACRE	
8 FERTILIZER	
9 CHEMICALS	\$ 4.07
10 SEED & OTHER	4.81
11 SPECIAL HIRED LABOR	
12 CUSTOM WORK HIRED	.49
13 IRRIGATION OPERATION	
14 TOTAL DIRECT COSTS	\$ 9.37
15 RETURN OVER DIRECT COSTS	\$162.91
16 ALLOCATED COSTS PER ACRE	
17 FARM POWER & MACHINERY - OWNERSHIP	\$ 23.69
18 FARM POWER & MACHINERY - OPERATION	16.85
19 IRRIGATION EQUIPMENT - OWNERSHIP	
20 LAND COSTS	77.83
21 MISCELLANEOUS COSTS	
22 INTEREST ON MACH. & EQUIP. INVESTMENT	4.88
23 TOTAL ALLOCATED COSTS	\$123.25
24 RETURN OVER ALL LISTED COSTS	\$ 39.66
25 SUPPLEMENTARY MANAGEMENT INFORMATION	
26 WORK UNITS ASSIGNED PER ACRE	.40
27 POWER COSTS ALLOCATION FACTOR	.70
28 TOTAL LISTED COST PER UNIT OF PRODUCTION	\$.77
29 RETURN OVER LISTED COSTS PER DOLLAR	\$.23
30* BREAK-EVEN YIELD, DOLLARS	\$132.62
30A EST. TOTAL MACHINE COSTS PER ACRE	\$ 45.75
31 TOTAL LISTED COSTS PER ACRE	\$132.62

* TO COVER TOTAL LISTED COSTS PER ACRE (LINE 31) AT PRICE GIVEN IN LINE 3.

TABLE 10-0400 - CROP DATA FOR ALFALFA HAY - 1979 - S.E.

ITEMS	Average of 57 Farms	11 Farms Highest in Yield	11 Farms Lowest in Yield
1 ACRES	57.5	83.2	52.1
2 YIELD PER ACRE, TONS	4.4	6.4	2.2
3 VALUE PER TON	\$ 39.91	\$ 40.00	\$ 39.55
4 CROP PRODUCT RETURN PER ACRE	175.60	254.81	87.29
5 OTHER CROP INCOME PER ACRE	.16	.54	
6 TOTAL CROP RETURN PER ACRE	\$175.76	\$255.35	\$ 87.29
7 DIRECT COSTS PER ACRE			
8 FERTILIZER	\$ 13.04	\$ 8.88	\$ 18.89
9 CHEMICALS	.83	1.61	1.29
10 SEED & OTHER	13.55	12.90	11.52
11 SPECIAL HIRED LABOR	.45		
12 CUSTOM WORK HIRED	2.37	1.13	2.63
13 IRRIGATION OPERATION			
14 TOTAL DIRECT COSTS PER ACRE	\$ 30.24	\$ 24.52	\$ 34.33
15 RETURN OVER DIRECT COSTS PER ACRE	\$145.52	\$230.83	\$ 52.96
16 ALLOCATED COSTS PER ACRE			
17 FARM POWER & MACHINERY - OWNERSHIP	\$ 40.41	\$ 51.83	\$ 32.12
18 FARM POWER & MACHINERY - OPERATION	28.29	30.98	29.36
19 IRRIGATION EQUIPMENT - OWNERSHIP			
20 LAND COSTS	67.89	70.00	67.27
21 MISCELLANEOUS COSTS			
22 INTEREST ON MACH. & EQUIP. INVESTMENT	9.51	12.08	7.83
23 TOTAL ALLOCATED COSTS PER ACRE	\$146.10	\$164.89	\$ 136.58
24 RETURN OVER ALL LISTED COSTS PER ACRE	\$ (-.58)	\$ 65.94	\$(-83.62)
25 SUPPLEMENTARY MANAGEMENT INFORMATION			
26 WORK UNITS ASSIGNED PER ACRE	.60	.60	.60
27 POWER COSTS ALLOCATION FACTOR	.98	.98	1.00
28 TOTAL LISTED COST PER TON	\$ 40.08	\$ 29.73	\$ 77.43
29 RETURN OVER LISTED COSTS PER TON	\$ (-.13)	\$ 10.35	\$(-37.89)
30* BREAK-EVEN YIELD, TONS	4.42	4.74	4.32
30A EST. TOTAL MACHINE COSTS PER ACRE	\$ 79.79	\$ 95.64	\$ 71.06
31 TOTAL LISTED COSTS PER ACRE	\$176.34	\$189.41	\$ 170.91

* TO COVER TOTAL LISTED COSTS PER ACRE (LINE 31) AT PRICE GIVEN IN LINE 3.

TABLE 10-0545- CROP DATA FOR GRAIN (OATS) SILAGE - 1979 - S.E.

ITEMS	Average of 9 Farms
1 ACRES	29.7
2 YIELD PER ACRE, TONS	6.7
3 VALUE PER TON	\$ 13.33
4 CROP PRODUCT RETURN PER ACRE	89.33
5 OTHER CROP INCOME PER ACRE	1.11
6 TOTAL CROP RETURN PER ACRE	\$ 90.44
7 DIRECT COSTS PER ACRE	
8 FERTILIZER	\$ 8.48
9 CHEMICALS	
10 SEED & OTHER	7.31
11 SPECIAL HIRED LABOR	
12 CUSTOM WORK HIRED	1.62
13 IRRIGATION OPERATION	
14 TOTAL DIRECT COSTS PER ACRE	\$ 17.41
15 RETURN OVER DIRECT COSTS PER ACRE	\$ 73.03
16 ALLOCATED COSTS PER ACRE	
17 FARM POWER & MACHINERY - OWNERSHIP	\$ 19.52
18 FARM POWER & MACHINERY - OPERATION	18.81
19 IRRIGATION EQUIPMENT - OWNERSHIP	
20 LAND COSTS	65.00
21 MISCELLANEOUS COSTS	
22 INTEREST ON MACH. & EQUIP. INVESTMENT	5.71
23 TOTAL ALLOCATED COSTS PER ACRE	\$ 109.04
24 RETURN OVER ALL LISTED COSTS PER ACRE	\$(-36.01)
25 SUPPLEMENTARY MANAGEMENT INFORMATION	
26 WORK UNITS ASSIGNED PER ACRE	.40
27 POWER COSTS ALLOCATION FACTOR	1.00
28 TOTAL LISTED COSTS PER TON	\$ 18.88
29 RETURN OVER LISTED COSTS PER TON	\$ (-5.38)
30* BREAK-EVEN YIELD, TONS	9.49
30A EST. TOTAL MACHINE COSTS PER ACRE	\$ 45.12
31 TOTAL LISTED COSTS PER ACRE	\$ 126.45

* TO COVER TOTAL LISTED COSTS PER ACRE (LINE 31) AT PRICE GIVEN IN LINE 3.

TABLE 10-0550 - CROP DATA FOR CORN SILAGE - 1979 - S.E.

ITEMS	Average of 43 Farms	14 Farms Highest in Yield	14 Farms Lowest in Yield
1 ACRES	21.8	24.7	22.5
2 YIELD PER ACRE, TONS	17.2	22.0	12.0
3 VALUE PER TON	\$ 15.00	\$ 15.00	\$ 15.00
4 CROP PRODUCT RETURN PER ACRE	258.03	330.36	179.33
5 OTHER CROP INCOME PER ACRE			
6 TOTAL CROP RETURN PER ACRE	\$258.03	\$330.36	\$ 179.33
7 DIRECT COSTS PER ACRE			
8 FERTILIZER	\$ 29.04	\$ 30.53	\$ 29.60
9 CHEMICALS	14.72	16.92	11.73
10 SEED & OTHER	18.76	14.74	23.60
11 SPECIAL HIRED LABOR	.64	1.74	
12 CUSTOM WORK HIRED	5.64	5.18	4.18
13 IRRIGATION OPERATION			
14 TOTAL DIRECT COSTS PER ACRE	\$ 68.80	\$ 69.11	\$ 69.11
15 RETURN OVER DIRECT COSTS PER ACRE	\$189.23	\$261.25	\$ 110.22
16 ALLOCATED COSTS PER ACRE			
17 FARM POWER & MACHINERY - OWNERSHIP	\$ 39.15	\$ 35.04	\$ 37.00
18 FARM POWER & MACHINERY - OPERATION	30.84	29.22	30.28
19 IRRIGATION EQUIPMENT - OWNERSHIP			
20 LAND COSTS	67.21	70.36	64.29
21 MISCELLANEOUS COSTS			
22 INTEREST ON MACH. & EQUIP. INVESTMENT	9.10	8.48	8.52
23 TOTAL ALLOCATED COSTS PER ACRE	\$146.30	\$143.10	\$ 140.09
24 RETURN OVER ALL LISTED COSTS PER ACRE	\$ 42.93	\$118.15	\$(-29.87)
25 SUPPLEMENTARY MANAGEMENT INFORMATION			
26 WORK UNITS ASSIGNED PER ACRE	.60	.60	.60
27 POWER COSTS ALLOCATION FACTOR	.98	.97	1.00
28 TOTAL LISTED COST PER TON	\$ 12.50	\$ 9.64	\$ 17.50
29 RETURN OVER LISTED COSTS PER TON	\$ 2.50	\$ 5.36	\$ (-2.50)
30* BREAK-EVEN YIELD, TONS	14.34	14.15	13.95
30A EST. TOTAL MACHINE COSTS PER ACRE	\$ 82.85	\$ 76.20	\$ 78.59
31 TOTAL LISTED COSTS PER ACRE	\$215.10	\$212.21	\$ 209.20

* TO COVER TOTAL LISTED COSTS PER ACRE (LINE 31) AT PRICE GIVEN IN LINE 3.

TABLE 10-0570 - CROP DATA FOR LEGUME PASTURES - 1979 - S.E.

ITEMS	Average of 28 Farms	14 Farms Highest in Yield	14 Farms Lowest in Yield
1 ACRES	23.8	22.3	25.3
2 YIELD PER ACRE, DOLLARS	\$ 43.95	\$ 65.29	\$ 25.14
3 VALUE PER PRODUCTION UNIT	\$ 1.00	\$ 1.00	\$ 1.00
4 CROP PRODUCT RETURN PER ACRE	43.95	65.29	25.14
5 OTHER CROP INCOME			
6 TOTAL CROP RETURN PER ACRE	\$ 43.95	\$ 65.29	\$ 25.14
7 DIRECT COSTS PER ACRE			
8 FERTILIZER	\$ 1.59	\$.64	\$ 2.36
9 CHEMICALS	.24	.05	.44
10 SEED & OTHER			
11 SPECIAL HIRED LABOR			
12 CUSTOM WORK HIRED	.10		.17
13 IRRIGATION OPERATION			
14 TOTAL DIRECT COSTS PER ACRE	\$ 1.93	\$.69	\$ 2.97
15 RETURN OVER DIRECT COSTS PER ACRE	\$ 42.02	\$ 64.60	\$ 22.17
16 ALLOCATED COSTS PER ACRE			
17 FARM POWER & MACHINERY - OWNERSHIP	\$ 2.95	\$ 3.28	\$ 2.69
18 FARM POWER & MACHINERY - OPERATION	2.28	2.16	2.37
19 IRRIGATION EQUIPMENT - OWNERSHIP			
20 LAND COSTS	56.79	59.64	53.93
21 MISCELLANEOUS COSTS			
22 INTEREST ON MACH. & EQUIP. INVESTMENT	.68	.74	.62
23 TOTAL ALLOCATED COSTS PER ACRE	\$ 62.70	\$ 65.82	\$ 59.61
24 RETURN OVER ALL LISTED COSTS PER ACRE	\$(-20.68)	\$(-1.22)	\$(-37.44)
25 SUPPLEMENTARY MANAGEMENT INFORMATION			
26 WORK UNITS ASSIGNED PER ACRE	.05	.05	.05
27 POWER COSTS ALLOCATION FACTOR	.84	.86	.82
28 TOTAL LISTED COSTS PER UNIT OF PRODUCTION	\$ 1.55	\$ 1.07	\$ 2.54
29 RETURN OVER LISTED COSTS PER UNIT	\$ (-.34)	\$.18	\$ (-1.41)
30* BREAK-EVEN YIELD/UNITS OF PRODUCTION	69.49	71.52	67.29
30A EST. TOTAL MACHINE COSTS PER ACRE	\$ 5.98	\$ 6.18	\$ 5.79
31 TOTAL LISTED COSTS PER ACRE	\$ 64.63	\$ 66.51	\$ 62.58

* TO COVER TOTAL LISTED COSTS PER ACRE (LINE 31) AT PRICE GIVEN IN LINE 3.

TABLE 10-0585 - CROP DATA FOR NON-TILLABLE PRAIRIE PASTURES - 1979 - S.E.

ITEMS	Average of 5 Farms
1 ACRES	32.4
2 YIELD PER ACRE, DOLLARS	\$ 21.17
3 VALUE PER PRODUCTION UNIT	\$ 1.00
4 CROP PRODUCT RETURN PER ACRE	21.17
5 OTHER CROP INCOME PER ACRE	
6 TOTAL CROP RETURN PER ACRE	\$ 21.17
7 DIRECT COSTS PER ACRE	
8 FERTILIZER	
9 CHEMICALS	
10 SEED & OTHER	
11 SPECIAL HIRED LABOR	
12 CUSTOM WORK HIRED	
13 IRRIGATION OPERATION	
14 TOTAL DIRECT COSTS PER ACRE	
15 RETURN OVER DIRECT COSTS PER ACRE	\$ 21.17
16 ALLOCATED COSTS PER ACRE	
17 FARM POWER & MACHINERY - OWNERSHIP	\$.52
18 FARM POWER & MACHINERY - OPERATION	.36
19 IRRIGATION EQUIPMENT - OWNERSHIP	
20 LAND COSTS	38.00
21 MISCELLANEOUS COSTS	
22 INTEREST ON MACH. & EQUIP. INVESTMENT	.12
23 TOTAL ALLOCATED COSTS PER ACRE	\$ 39.00
24 RETURN OVER ALL LISTED COSTS PER ACRE	\$(-17.83)
25 SUPPLEMENTARY MANAGEMENT INFORMATION	
26 WORK UNITS PER ACRE	.01
27 POWER COSTS ALLOCATION FACTOR	.96
28 TOTAL LISTED COSTS PER UNIT OF PRODUCTION	\$ 1.84
29 RETURN OVER LISTED COSTS PER UNIT	\$ (-.84)
30* BREAK-EVEN YIELD/UNIT OF PRODUCTION	39.00
30A EST. TOTAL MACHINE COSTS PER ACRE	\$ 1.00
31 TOTAL LISTED COSTS PER ACRE	\$ 39.00

* TO COVER TOTAL LISTED COSTS PER ACRE (LINE 31) AT PRICE GIVEN IN LINE 3.

TABLE 10-1180 - CROP DATA FOR SET ASIDE ACRES - TILLED - 1979 - S.E.

ITEMS	Average of 14 Farms	7 Farms Highest in Yield	7 Farms Lowest in Yield
1 ACRES	20.0	16.4	23.6
2* YIELD PER ACRE, DOLLARS	\$ 31.2	\$ 53.5	\$ 15.7
3 VALUE PER PRODUCTION UNIT	\$ 1.00	\$ 1.00	\$ 1.00
4 CROP PRODUCT RETURN PER ACRE	31.20	53.54	15.68
5 OTHER CROP INCOME PER ACRE			
6 TOTAL CROP RETURN PER ACRE	\$ 31.20	\$ 53.54	\$ 15.68
7 DIRECT COSTS PER ACRE			
8 FERTILIZER			
9 CHEMICALS			
10 SEED & OTHER			
11 SPECIAL HIRED LABOR			
12 CUSTOM WORK HIRED			
13 IRRIGATION OPERATION			
14 TOTAL DIRECT COSTS PER ACRE			
15 RETURN OVER DIRECT COSTS PER ACRE	\$ 31.20	\$ 53.54	\$ 15.68
16 ALLOCATED COSTS PER ACRE			
17 FARM POWER & MACHINERY - OWNERSHIP	\$ 4.25	\$ 2.99	\$ 5.21
18 FARM POWER & MACHINERY - OPERATION	3.57	2.89	4.08
19 IRRIGATION EQUIPMENT - OWNERSHIP			
20 LAND COSTS	60.00	65.00	55.00
21 MISCELLANEOUS COSTS			
22 INTEREST ON MACH. & EQUIP. INVESTMENT	1.01	.79	1.19
23 TOTAL ALLOCATED COSTS PER ACRE	\$ 68.83	\$ 71.67	\$ 65.48
24 RETURN OVER ALL LISTED COSTS PER ACRE	\$(-37.63)	\$(-18.13)	\$(-49.80)
25 SUPPLEMENTARY MANAGEMENT INFORMATION			
26 WORK UNITS ASSIGNED PER ACRE	.20	.20	.20
27 POWER COSTS ALLOCATION FACTOR	.48	.30	.66
28 TOTAL LISTED COST PER UNIT OF PRODUCTION	\$ 2.05	\$ 1.34	\$ 3.70
29 RETURN OVER LISTED COSTS PER UNIT	\$ (-1.05)	\$ (-.34)	\$ (-2.70)
30** BREAK-EVEN YIELD/UNIT OF PRODUCTION	74.01	71.67	76.14
30A EST. TOTAL MACHINE COSTS PER ACRE	\$ 8.83	\$ 6.67	\$ 10.48
31 TOTAL LISTED COSTS PER ACRE	\$ 68.83	\$ 71.67	\$ 65.48

* DEFICIENCY PAYMENT RECEIVED DIVIDED BY ACRES PLANTED EQUALS YIELD (IN \$) PER ACRE, MULTIPLIED BY 1 (LINE 3) EQUALS CROP RETURN PER ACRE OF SET ASIDE.

** TO COVER TOTAL LISTED COSTS PER ACRE (LINE 3) AT PRICE GIVEN IN LINE 3.

DESCRIPTION OF LIVESTOCK TABLES

Livestock provide an important source of farm income, especially on farms with relatively small acreages, or acreages not well suited to the production of cash crops. If the crop land area is limited, and/or the farm family is short of capital relative to labor, livestock may be needed to provide the volume of earnings necessary for family living and to meet goals that the farm family hopes to achieve.

The following tables provide cost and return calculations for the livestock enterprises on the farms included in this report. Since feed is the largest single item of cost for all classes of livestock, return above feed cost was used to classify farms into high or low in the following tables. The reader is cautioned to remember that farms are classified into the high or low return above feed cost categories for each table, so that a particular farm might be in the low category in one livestock table and in the high category in another livestock table. And these classifications are separate and independent of the classifications based on labor earnings used in TABLES 1 through 6B. Feed costs are determined from feed records kept by the farm operator. Given the overwhelming importance of feed as the major cost of livestock production, it is suggested that the livestock producer try to keep an accurate set of feed records for each major livestock enterprise.

Purchase price is used for all feeds purchased from off the farm. An average price, shown elsewhere in this report, is charged for each kind of home-grown feed.

In general, the net increase in value of animals is calculated as: ending inventory plus sales plus transfers out plus butchered minus beginning inventory minus purchases minus transfers in. For fed livestock, pounds or cwt produced is calculated in the same way. Since inventory values play such an important role in determining net increase in value, producers are urged to be extremely careful in changing inventory prices, especially of breeding livestock which may be on hand during the whole year. In other words, paper gains and losses from changing prices of inventory should be avoided.

Return over feed costs, because of the proportion of total costs represented by feed, is an important overall measure, and very useful in comparing an enterprise over time on the same farm or with other farms in a given year. It is a general measure that indicates success in getting top dollar for products sold, as well as in holding down feed costs. The relative size of the return over feed cost, or a companion measure, return for \$100 feed fed, varies by kind of enterprise, depending upon the size of non-feed costs. For example, dairy cows, with high labor and building and equipment costs, need a higher return above feed cost and return per \$100 feed fed than a low labor, low building/equipment cost enterprise such as feeder cattle. It also varies by year as both commodity prices and feed prices vary.

A few of the other direct cash costs, such as veterinary costs, bedding, etc. are shown in each livestock table. Certain overhead costs were also allocated among enterprises, using the work unit procedure described for the crops tables, which again can be modified by use of power and machinery, livestock equipment, and building and fences cost allocation factors. (PCAF, ECAF, and BCAF, respectively)

TABLE 11A-6470 - COSTS AND RETURNS FROM HOGS, FARROW-TO-FINISH* - 1979 - S.E.

ITEMS	Average of 20 Farms	10 Farms	10 Farms
		Highest in Return Above Feed Cost	Lowest in Return Above Feed Cost
1 POUNDS OF HOGS PRODUCED	179,207	209,899	148,516
	Per Cwt.	Per Cwt.	Per Cwt.
2 NET INCREASE IN VALUE OF HOGS	\$ 37.08	\$ 39.03	\$ 34.32
3 OTHER MISCELLANEOUS HOG INCOME			
4 TOTAL VALUE PRODUCED	\$ 37.08	\$ 39.03	\$ 34.32
5 POUNDS OF FEED FED			
6 CORN	326.9	316.4	341.7
7 SMALL GRAIN	7.0	6.0	8.4
8 COMPLETE RATION	4.6	.1	10.8
9 PROTEIN, SALT & MINERAL & MILK	80.6	82.5	78.1
10 TOTAL CONCENTRATES	419.1	405.0	439.0
11 FORAGES	6.8	3.2	11.9
12 FEED COST			
13 GRAINS	\$ 12.53	\$ 12.11	\$ 13.12
14 COMPLETE RATION	.81	.03	1.93
15 PROTEIN, SALT & MINERAL & MILK	10.60	10.19	11.18
16 FORAGES	.14	.06	.24
17 PASTURE	.02	.03	.01
18 TOTAL FEED COSTS	\$ 24.10	\$ 22.42	\$ 26.48
19 RETURN OVER FEED COSTS	\$ 12.98	\$ 16.61	\$ 7.84
20 OTHER DIRECT COSTS			
21 MISCELLANEOUS LIVESTOCK EXPENSE	\$ 1.03	\$ 1.08	\$.96
22 VETERINARY EXPENSE	.53	.68	.32
23 CUSTOM WORK	.86	1.20	.38
24 SPECIAL HIRED LABOR	.08	.14	
25 TOTAL OTHER DIRECT COSTS	\$ 2.50	\$ 3.10	\$ 1.66
26 RETURN OVER FEED & OTHER DIRECT COSTS	\$ 10.48	\$ 13.51	\$ 6.18
27 ALLOCATED COSTS			
28 POWER & MACHINERY COSTS	\$ 1.17	\$.93	\$ 1.52
29 LIVESTOCK EQUIPMENT COSTS	1.75	1.90	1.52
30 BUILDING & FENCES	2.05	1.62	2.66
31 TOTAL ALLOCATED COSTS	\$ 4.97	\$ 4.45	\$ 5.70
32 RETURN OVER ALL LISTED COSTS	\$ 5.51	\$ 9.06	\$.48
33 SUPPLEMENTARY MANAGEMENT INFORMATION			
34 RETURN FOR \$100 FEED FED	\$153.86	\$174.11	\$129.60
35 PRICE RECEIVED PER CWT. ALL ANIMALS	\$ 41.28	\$ 42.03	\$ 40.24
36 PRICE RECEIVED/CWT. SOLD MKT ONLY	\$ 42.13	\$ 42.70	\$ 41.32
37 NUMBER OF LITTERS FARROWED	114	146	82
37A LITTERS/BEARING FEMALE/YEAR	1.9	1.8	2.1
38 NUMBER OF PIGS BORN PER LITTER	8.2	7.5	9.5
39 NUMBER OF PIGS WEANED PER LITTER	6.2	5.8	6.9
40 PERCENT DEATH LOSS	16.2	16.3	16.1
41 AVERAGE WEIGHT OF ALL HOGS SOLD	231.5	228.4	236.0
42 AVERAGE WEIGHT OF MKT. HOGS SOLD	219.6	219.0	220.4
43 PRICE PER CWT. CONCENTRATE FED	\$ 3.00	\$ 5.51	\$ 1.93
44 PRICE/CWT. PROT., SALT & MIN. FED	\$ 13.14	\$ 12.36	\$ 14.31
45 POUNDS OF PORK PRODUCED	4,315	3,906	4,725
46 TOTAL LISTED COSTS/CWT PORK PROD.	\$ 31.57	\$ 29.97	\$ 33.84

*FARMS INCLUDED IN TABLE 11A CARRIED OUT A COMPLETE PROGRAM OF FARROWING AND MARKETING THEIR OWN HOGS. THE FEED COSTS INCLUDE FEED FOR THE BREEDING HERD AND MARKET ANIMALS.

TABLE 11B-6490 - COSTS AND RETURNS FROM HOG FINISHING ENTERPRISE* - 1979 - S.E.

ITEMS	Average of 7 Farms
1 AVERAGE NUMBER OF PIGS ON HAND	339.6
2 POUNDS OF HOGS PRODUCED	162,011
3 NET INCREASE IN VALUE OF HOGS	Per Cwt. \$ 25.74
4 OTHER MISCELLANEOUS HOG INCOME	
5 TOTAL VALUE PRODUCED	\$ 25.74
6 POUNDS OF FEED FED	
7 CORN	334.7
8 SMALL GRAIN	5.4
9 COMPLETE RATION	
10 PROTEIN, SALT & MINERAL & MILK	70.5
11 TOTAL CONCENTRATES	420.6
12 FORAGES	.2
13 FEED COST	
14 GRAINS	\$ 13.25
15 COMPLETE RATION	
16 PROTEIN, SALT & MINERAL & MILK	9.08
17 FORAGES	
18 PASTURE	
19 TOTAL FEED COSTS	\$ 22.33
20 RETURN OVER FEED COSTS	\$ 3.41
21 OTHER DIRECT COSTS	
22 MISCELLANEOUS LIVESTOCK EXPENSE	\$.18
23 VETERINARY EXPENSE	.34
24 CUSTOM WORK	.54
25 SPECIAL HIRED WORK	
26 TOTAL OTHER DIRECT COSTS	\$ 1.06
27 RETURN OVER FEED & OTHER DIRECT COSTS	\$ 2.35
28 ALLOCATED COSTS	
29 POWER & MACHINERY COSTS	\$ 1.45
30 LIVESTOCK EQUIPMENT COSTS	1.43
31 BUILDING & FENCES	1.56
32 TOTAL ALLOCATED COSTS	\$ 4.44
33 RETURN OVER ALL LISTED COSTS	\$(-2.09)
34 SUPPLEMENTARY MANAGEMENT INFORMATION	
35 RETURN FOR \$100 FEED FED	\$115.28
36 PRICE RECEIVED PER CWT.	\$ 42.72
37 AVERAGE WEIGHT OF PIGS SOLD, LBS.	227.1
38 AVERAGE PRICE PAID PER PIG BOUGHT	\$ 42.51
39 AVERAGE WEIGHT PER PIG BOUGHT, LBS.	48.2
40 NUMBER OF PIGS PURCHASED	721
41 NO. OF PIGS TRANSFERRED IN	219
42 AVG. WT. OF PIGS TRANSFERRED IN	54.0
43 POUNDS OF PORK PURCHASED	34,780
44 PERCENT DEATH LOSS	3.4
45 PRICE PER CWT. CONCENTRATE FED	\$ 5.31
46 PRICE/CWT. PROT., SALT & MIN. FED	\$ 12.89
47 EFFECTIVE DAILY GAIN-LB/DAY/PIG	1.31
48 TOTAL LISTED COSTS/CWT. PORK PROD.	\$ 27.83

*FARMS INCLUDED IN TABLE 11B EITHER PURCHASED FEEDER PIGS OR TRANSFERRED HOME-FARROWED PIGS TO THE FINISHING LOTS. FEED COSTS AND RETURNS DO NOT INCLUDE ANY BREEDING HERD MAINTENANCE COSTS.

TABLE 11A-6530 - HOGS, MIXED SYSTEMS - 1979 - S.E.

ITEMS	Average of 9 Farms
1 POUNDS OF HOGS PRODUCED	123,212
2 NET INCREASE IN VALUE OF HOGS	Per Cwt. \$ 39.76
3 OTHER MISCELLANEOUS HOG INCOME	
4 TOTAL VALUE PRODUCED	\$ 39.76
5 POUNDS OF FEED FED	
6 CORN	320.9
7 SMALL GRAIN	37.5
8 COMPLETE RATION	6.1
9 PROTEIN, SALT & MINERAL & MILK	61.7
10 TOTAL CONCENTRATES	426.2
11 FORAGES	1.4
12 FEED COSTS	
13 GRAINS	\$ 13.30
14 COMPLETE RATION	1.16
15 PROTEIN, SALT & MINERAL & MILK	8.52
16 FORAGES	.03
17 PASTURE	.15
18 TOTAL FEED COSTS	\$ 23.16
19 RETURN OVER FEED COSTS	\$ 16.60
20 OTHER DIRECT COSTS	
21 MISCELLANEOUS LIVESTOCK EXPENSE	\$.98
22 VETERINARY EXPENSE	.65
23 CUSTOM WORK	.60
24 SPECIAL HIRED WORK	
25 TOTAL OTHER DIRECT COSTS	\$ 2.23
26 RETURN OVER FEED & OTHER DIRECT COSTS	\$ 14.37
27 ALLOCATED COSTS	
28 POWER & MACHINERY COSTS	\$ 1.81
29 LIVESTOCK EQUIPMENT COSTS	1.62
30 BUILDING & FENCES	2.13
31 TOTAL ALLOCATED COSTS	\$ 5.56
32 RETURN OVER ALL LISTED COSTS	\$ 8.81
33 SUPPLEMENTARY MANAGEMENT INFORMATION	
34 RETURN FOR \$100 FEED FED	\$171.68
35 PRICE RECEIVED/CWT. ALL ANIMALS	\$ 43.20
36 PRICE RECEIVED/CWT. SOLD MKT. ONLY	\$ 45.99
37 NUMBER OF LITTERS FARROWED	78
37A LITTERS/BEARING FEMALE/YEAR	1.2
38 NUMBER OF PIGS BORN PER LITTER	10.6
39 NUMBER OF PIGS WEANED PER LITTER	8.6
40 PERCENT DEATH LOSS	12.5
41 AVERAGE WEIGHT OF ALL HOGS SOLD	207.4
42 AVERAGE WEIGHT OF MKT. HOGS SOLD	181.3
43 PRICE PER CWT. CONCENTRATE FED	\$ 5.39
44 PRICE/CWT. PROTEIN, SALT & MINERAL	\$ 13.80
45 POUNDS OF PORK PRODUCED	611
46 TOTAL LISTED COSTS/CWT. PORK PROD.	\$ 30.95

TABLE 12-6290 - COSTS AND RETURNS FROM DAIRY COWS, COMMERCIAL HERDS - 1979 - S.E.

ITEMS	Average of 38 Farms	13 Farms	
		Highest in Return Above Feed Costs	Lowest in Return Above Feed Costs
1 AVERAGE NUMBER OF COWS	55.8	64.6	55.4
	Per Cow	Per Cow	Per Cow
2 POUNDS OF MILK	13,515	14,737	11,954
3 POUNDS OF BUTTERFAT	503.8	550.0	454.4
4 PERCENT OF BUTTERFAT IN MILK	3.7	3.7	3.8
5 VALUE OF PRODUCE			
6 DAIRY PRODUCTS SOLD	\$1,579.93	\$1,748.39	\$ 1,394.22
7 DAIRY PRODUCTS USED IN HOME	6.51	3.85	9.71
8 MILK FED TO LIVESTOCK	3.30	4.06	3.34
9 NET INCREASES IN VALUE OF COWS	(-3.24)	57.38	(-87.62)
10 OTHER MISCELLANEOUS DAIRY INCOME	.59		1.73
11 TOTAL VALUE PRODUCED	\$1,587.09	\$1,813.68	\$ 1,321.38
12 POUNDS OF FEED FED			
13 CORN	5,745.0	5,888.3	5,211.4
14 SMALL GRAIN	295.8	397.3	231.4
15 COMPLETE RATION	8.4		
16 PROTEIN, SALT & MINERAL	754.5	657.4	926.9
17 TOTAL CONCENTRATES	6,803.7	6,943.0	6,369.7
18 LEGUME HAY	7,400.1	6,889.5	8,115.8
19 OTHER HAY & DRY ROUGHAGE	32.1		94.4
20 SILAGE	7,915.0	5,402.5	11,046.9
21 FEED COSTS			
22 GRAINS	\$ 227.72	\$ 239.85	\$ 205.38
23 COMPLETE RATION	1.18		
24 PROTEIN, SALT & MINERAL	103.01	84.92	129.82
25 ALL HAY & DRY ROUGHAGE	141.45	119.02	165.04
26 SILAGE	58.84	40.19	82.24
27 PASTURE	3.10	5.46	1.53
28 TOTAL FEED COSTS	\$ 535.30	\$ 489.44	\$ 584.01
29 RETURN OVER FEED COSTS	\$1,051.79	\$1,324.24	\$ 737.37
30 OTHER DIRECT COSTS			
31 MISCELLANEOUS LIVESTOCK EXPENSE	\$ 74.09	\$ 80.43	\$ 68.09
32 VETERINARY EXPENSE	35.32	31.22	40.63
33 CUSTOM WORK HIRED	43.96	44.91	44.66
34 SPECIAL HIRED LABOR			
35 TOTAL OTHER DIRECT COSTS	\$ 153.37	\$ 156.56	\$ 153.38
36 RET. OVER FEED & OTHER DIRECT COSTS	\$ 898.42	\$1,167.68	\$ 583.99
37 ALLOCATED COSTS			
38 POWER & MACHINERY COSTS	\$ 73.78	\$ 74.89	\$ 74.86
39 LIVESTOCK EQUIPMENT COSTS	66.29	60.88	66.79
40 BUILDING & FENCES	90.88	85.52	85.94
41 TOTAL ALLOCATED COSTS	\$ 230.95	\$ 221.29	\$ 227.59
42 RETURN OVER ALL LISTED COSTS	\$ 667.47	\$ 946.39	\$ 356.40
43 SUPPLEMENTARY MANAGEMENT INFORMATION			
44 RETURN FOR \$100 FEED FED	\$ 296.48	\$ 370.56	\$ 226.26
45 FEED COST PER CWT. MILK	\$ 3.96	\$ 3.32	\$ 4.89
46 FEED COST PER POUND OF BUTTERFAT	\$ 1.06	\$.89	\$ 1.29
47 POUNDS OF MILK/POUND OF CONCEN	1.94	2.12	1.88
48 AVERAGE PRICE PER CWT. MILK SOLD	\$ 11.74	\$ 11.89	\$ 11.74
49 AVERAGE PRICE/POUND OF BUTTERFAT	\$ 3.15	\$ 3.19	\$ 3.09
50 TOTAL LISTED COSTS/CWT MILK PROD.	\$ 6.80	\$ 5.89	\$ 8.07
51 DAIRY COW TURNOVER PERCENTAGE	28.7	29.4	28.9
52 TOTAL LISTED COSTS PER COW	\$ 919.62	\$ 867.29	\$ 924.98

TABLE 13-6318 - COSTS AND RETURNS FROM OTHER DAIRY CATTLE COMMERCIAL HERD REPLACEMENTS-SE

ITEMS	Average of 36 Farms	12 Highest in Return Above Feed Per Cow	12 Lowest in Return Above Feed Per Cow
1 NUMBER OF HEAD	70.8	86.3	53.5
2 NET INCREASE IN VALUE	Per Cow \$ 326.05	Per Cow \$ 433.19	Per Cow \$ 164.21
3 OTHER MISCELLANEOUS INCOME			
4 TOTAL INCOME	\$ 326.05	\$ 433.19	\$ 164.21
5 POUNDS OF FEED FED			
6 CORN	982.7	935.1	904.0
7 SMALL GRAIN	290.0	188.1	207.5
8 COMPLETE RATION	8.3	7.3	
9 PROTEIN, SALT & MINERALS	212.2	146.2	248.8
10 HAY & DRY ROUGHAGE	2,571.9	2,259.6	2,834.9
11 SILAGE	3,600.1	1,672.5	5,785.0
12 MILK	14.5	8.6	21.3
13 FEED COST			
14 GRAINS	\$ 48.26	\$ 43.16	\$ 41.93
15 COMPLETE RATION	1.00	.83	
16 PROTEIN, SALT & MINERALS	30.72	16.57	36.97
17 HAY & DRY ROUGHAGE	51.12	44.41	56.69
18 SILAGE	26.50	12.54	42.99
19 MILK	2.74	2.94	3.07
20 PASTURE	3.21	4.92	3.12
21 TOTAL FEED COSTS	\$ 163.55	\$ 125.37	\$ 184.77
22 RETURN OVER FEED COSTS	\$ 162.50	\$ 307.82	\$ (-20.56)
23 OTHER DIRECT COSTS			
24 MISCELLANEOUS EXPENSE	\$ 5.73	\$ 4.76	\$ 3.08
25 VETERINARY EXPENSE	2.66	2.16	2.58
26 CUSTOM WORK HIRED	1.79	1.10	2.21
27 SPECIAL HIRED LABOR			
28 TOTAL OTHER DIRECT COSTS	\$ 10.18	\$ 8.02	\$ 7.87
29 RET. OVER FEED & OTHER DIRECT COSTS	\$ 152.32	\$ 299.80	\$ (-28.43)
30 ALLOCATED COSTS			
31 POWER & MACHINERY COSTS	\$ 12.43	\$ 14.88	\$ 12.20
32 LIVESTOCK EQUIPMENT COSTS	11.16	13.55	11.00
33 BUILDING & FENCES	14.97	19.26	10.36
34 TOTAL ALLOCATED COSTS	\$ 38.56	\$ 47.69	\$ 33.56
35 RETURN OVER ALL LISTED COSTS	\$ 113.76	\$ 252.11	\$ (-61.99)
36 SUPPLEMENTARY MANAGEMENT INFORMATION			
37 RETURN FOR \$100 FEED FED	\$ 199.36	\$ 345.54	\$ 88.87
38 PERCENT DEATH LOSS - TOTAL	11.5	7.3	15.2
39 PERCENT CALF DEATH LOSS	22.4	16.4	28.6
40 TOTAL LISTED COSTS PER COW	\$ 212.29	\$ 181.08	\$ 226.20

TABLE 14 - COSTS AND RETURNS FROM ALL DAIRY CATTLE - 1979 - S.E.

ITEMS	Average of 40 Farms	13 Farms	13 Farms
		Highest in Return Above Feed Costs	Lowest in Return Above Feed Costs
1 AVERAGE NUMBER OF COWS	56.1	60.4	52.8
	Per Cow	Per Cow	Per Cow
2 VALUE OF DAIRY PRODUCTS	\$ 1,606.27	\$ 1,757.58	\$ 1,400.27
3 NET INCREASE IN VALUE	411.91	615.88	250.47
4 MISCELLANEOUS DAIRY INCOME	.55		1.82
5 TOTAL VALUE PRODUCED	\$ 2,018.73	\$ 2,373.46	\$ 1,652.56
6 POUNDS OF FEED FED PER COW			
7 GRAINS	7,677.8	8,079.5	6,700.1
8 COMPLETE RATIONS	17.3	49.4	
9 PROT., SALT & MIN., INCL MILK EQUIV	1,032.2	766.8	1,278.9
10 HAY & DRY ROUGHAGE	10,843.6	11,667.8	10,893.4
11 SILAGE	12,471.0	8,767.2	15,850.8
12 FEED COST PER COW			
13 GRAINS	\$ 289.50	\$ 308.76	\$ 252.65
14 COMPLETE RATIONS	2.25	6.42	
15 PROT., SALT & MIN., INCL MILK	147.66	114.64	195.28
16 HAY & DRY ROUGHAGE	209.71	213.10	218.81
17 SILAGE	92.80	64.82	116.65
18 PASTURE COSTS	8.00	12.04	4.38
19 TOTAL FEED COSTS	\$ 749.92	\$ 719.78	\$ 787.77
20 RETURN OVER FEED COSTS PER COW	\$ 1,268.81	\$ 1,653.68	\$ 864.79
21 OTHER DIRECT COSTS			
22 MISCELLANEOUS LIVESTOCK EXPENSE	\$ 85.22	\$ 95.83	\$ 75.27
23 VETERINARY EXPENSE	41.05	40.60	33.09
24 CUSTOM WORK	47.33	52.37	48.26
25 SPECIAL HIRED LABOR			
26 TOTAL OTHER DIRECT COSTS	\$ 173.60	\$ 188.80	\$ 156.62
27 RET OVER FEED & OTHER DIRECT COSTS	\$ 1,095.21	\$ 1,464.88	\$ 708.17
28 ALLOCATED COSTS			
29 POWER & MACHINERY COSTS	\$ 89.06	\$ 87.50	\$ 88.48
30 LIVESTOCK EQUIPMENT COSTS	82.32	86.32	86.19
31 BUILDING & FENCES	112.74	121.27	117.19
32 TOTAL ALLOCATED COSTS	\$ 284.12	\$ 295.09	\$ 291.86
33 RETURN OVER ALL LISTED COSTS	\$ 811.09	\$ 1,169.79	\$ 416.31
34 SUPPLEMENTARY MANAGEMENT INFORMATION			
35 RETURN FOR \$100 FEED FED	\$ 269.19	\$ 329.75	\$ 209.78
36 TOTAL LISTED COSTS PER COW	\$ 1,207.64	\$ 1,203.67	\$ 1,236.25

TABLE 15A-6100 - COST AND RETURNS FROM BEEF BREEDING CATTLE, FARM, COMMERCIAL
HERD - 1979 - S.E.

ITEMS	Average of 7 Farms
1 AVERAGE NUMBER OF BEEF COWS	34.3
2 AVG. NO. OTHER BEEF ANIMALS AND BULLS	34.2
3 POUNDS OF BEEF PRODUCED	30,372
	Per Cow
4 NET INCREASE IN VALUE	\$ 458.78
5 OTHER MISCELLANEOUS BEEF INCOME	
6 TOTAL VALUE PRODUCED	\$ 458.78
7 POUNDS OF FEED FED	
8 GRAIN	1,051.3
9 PROTEIN, SALT & MINERAL	127.4
10 LEGUME HAY	6,132.4
11 OTHER HAY & DRY ROUGHAGE	174.9
12 SILAGE	4,194.9
13 FEED COST	
14 GRAIN	\$ 39.07
15 PROTEIN, SALT & MINERAL	15.63
16 LEGUME HAY	122.65
17 OTHER HAY & DRY ROUGHAGE	1.31
18 SILAGE	24.49
19 PASTURE	40.87
20 TOTAL FEED COSTS	\$ 244.02
21 RETURN OVER FEED COST	\$ 214.76
22 OTHER DIRECT COSTS	
23 MISCELLANEOUS LIVESTOCK EXPENSE	\$ 3.41
24 VETERINARY EXPENSE	.38
25 CUSTOM WORK	6.62
26 SPECIAL HIRED LABOR	
27 TOTAL OTHER DIRECT COSTS	\$ 10.41
28 RETURN OVER FEED & OTHER DIRECT COSTS	\$ 204.35
29 ALLOCATED COSTS	
30 POWER & MACHINERY COSTS	\$ 74.14
31 LIVESTOCK EQUIPMENT COSTS	72.37
32 BUILDING & FENCES	117.52
33 TOTAL ALLOCATED COSTS	\$ 264.03
34 RETURN OVER ALL LISTED COSTS	\$ (-59.68)
35 SUPPLEMENTARY MANAGEMENT INFORMATION	
36 RETURN FOR \$100 FEED FED	\$ 188.00
37 PRICE PER CWT. SOLD	\$ 59.78
38 PRICE/CWT. CALVES SOLD OR TRANS.	\$ 68.52
39 AVERAGE WEIGHT PER HEAD SOLD	1,070.4
40 AVG. WEIGHT PER CALF SOLD OR TRANS.	682.5
41 PERCENT DEATH LOSS	2.0
42 PERCENT CALF CROP	200.0
43 TOTAL LISTED COSTS PER COW	\$ 518.46

TABLE 15A-6100 INCLUDES ONLY THOSE FARMS WITH TEN OR MORE COWS IN THE BEEF BREEDING HERD. NET INCREASE IN VALUE INCLUDES THE VALUE OF CALVES WHETHER SOLD OR TRANSFERRED TO THE FEED LOT.

TABLE 15B-6140 - COSTS AND RETURNS FROM BEEF FEEDER CATTLE, FEEDLOT - 1979 - S.E.

ITEMS	Average of 14 Farms	7 Farms	7 Farms
		Highest in Return Above Feed Costs	Highest in Return Above Feed Costs
1 AVERAGE NUMBER OF BEEF FEEDERS	78.9	121.4	36.3
2 POUNDS OF BEEF PRODUCED	50,499	76,282	24,716
3 NET INCREASE IN VALUE OF ANIMALS	Per Cwt. \$ 62.44	Per Cwt. \$ 68.54	Per Cwt. \$ 43.63
4 OTHER MISCELLANEOUS BEEF INCOME			
5 TOTAL VALUE PRODUCED	\$ 62.44	\$ 68.54	\$ 43.63
6 POUNDS OF FEED FED			
7 GRAIN	457.4	406.8	613.5
8 PROTEIN, SALT & MINERAL	40.8	31.2	70.4
9 LEGUME HAY	319.5	313.5	338.1
10 OTHER HAY & DRY ROUGHAGE			
11 SILAGE	629.1	651.7	559.5
12 FEED COST			
13 GRAIN	\$ 16.90	\$ 14.91	\$ 23.03
14 PROTEIN, SALT & MINERAL	3.92	3.24	6.02
15 LEGUME HAY	6.36	6.27	6.66
16 OTHER HAY & DRY ROUGHAGE			
17 SILAGE	4.70	4.89	4.13
18 PASTURE	.14	.10	.26
19 TOTAL FEED COST	\$ 32.02	\$ 29.41	\$ 40.10
20 RETURN OVER FEED COST	\$ 30.42	\$ 39.13	\$ 3.53
21 OTHER DIRECT COSTS			
22 MISCELLANEOUS LIVESTOCK EXPENSE	\$.11	\$.02	\$.39
23 VETERINARY EXPENSE	.38	.38	.38
24 CUSTOM WORK HIRED	1.25	1.02	1.96
25 SPECIAL HIRED LABOR			
26 TOTAL OTHER DIRECT COSTS	\$ 1.74	\$ 1.42	\$ 2.73
27 RETURN OVER FEED & OTHER DIRECT COSTS	\$ 28.68	\$ 37.71	\$.80
28 ALLOCATED COSTS			
29 POWER & MACHINERY COSTS	\$ 3.20	\$ 2.43	\$ 5.08
30 LIVESTOCK EQUIPMENT COSTS	3.04	2.26	5.01
31 BUILDINGS & FENCES	5.07	3.98	7.49
32 TOTAL ALLOCATED COSTS	\$ 11.31	\$ 8.67	\$ 17.58
33 RETURN OVER ALL LISTED COSTS	\$ 17.37	\$ 29.04	\$ (-16.78)
34 SUPPLEMENTARY MANAGEMENT INFORMATION			
35 RETURN FOR \$100 FEED FED	\$195.01	\$233.05	\$ 108.80
36 PRICE PER CWT. SOLD	\$ 63.73	\$ 65.20	\$ 59.29
37 AVERAGE WEIGHT PER HEAD SOLD	1,050.7	1,052.1	1,014.7
38 PRICE PER CWT. BOUGHT	\$ 75.88	\$ 72.25	\$ 79.25
39 AVERAGE WEIGHT PER HEAD BOUGHT	548.9	490.1	604.9
40 NUMBER OF HEAD BOUGHT	52	56	49
41 PERCENT DEATH LOSS	.6	.4	2.2
42 EFFECTIVE DAILY GAIN-LBS./HEAD/DAY	1.75	1.72	1.87
43 TOTAL LISTED COST PER CWT. PRODUCED	\$ 45.07	\$ 39.50	\$ 60.41

Southeastern Minnesota Farm Management Association
1979 Averages by Type of Farm

	Average All Farms	Hogs Farrow to Finish & Cash Crop	Cash Crop	Dairy and Cash Crop	Dairy 25-34 cows	Dairy 35-44 cows	Dairy 55-74 cows	Dairy 75+ cows
Number of Farms	83	13	9	14	5	4	6	6
Land								
Acres per Farm	349	359	349	376	152	236	279	460
Acres Tillable	307	336	327	332	140	197	254	383
% Tillable in High Return Crops	80	96	88	75.6	51	64	62	67.7
% Tillable in Corn & Corn Silage	51	49	46	51	25	38	38	52
% Tillable in Soybeans	19	40	34	12	5	13	4	3
% Tillable in Alfalfa	13	1	--	18	17	19	28	35
Labor								
Number of Workers	1.91	1.71	1.66	1.95	1.53	2.04	1.92	3.02
Total Work Units	510	411	180	618	315	460	659	1122
Work Units in Crops	154	170	163	166	64	90	129	201
Work Units in Livestock	342	239	1	428	246	370	517	912
Units per Worker	267	240	108	317	206	226	343	372
Capital								
Average Farm Capital Managed ^{a/}	\$396,909	\$340,509	\$581,906	\$375,170	\$201,966	\$237,731	\$308,483	\$520,113
Capital Managed per Worker ^{a/}	\$207,806	\$199,128	\$350,546	\$192,395	\$132,004	\$116,535	\$160,668	\$172,223
Earnings: Operator's Share								
Net Cash Operating Income	\$ 48,682	\$ 56,086	\$ 26,850	\$ 50,964	\$ 29,263	\$ 47,795	\$ 55,485	\$ 93,357
Ret to Operator Labor & Mgmt.	\$ 21,781	\$ 16,766	\$ 289	\$ 24,713	\$ 19,381	\$ 46,922	\$ 24,691	\$ 51,967
Ret Op & Fam Lab, Mgmt, Equity Cap.	\$ 35,061	\$ 29,169	\$ 5,683	\$ 37,288	\$ 25,231	\$ 62,597	\$ 36,927	\$ 75,792
Return to Capital - Whole Farm (%)	8	9	3	9	7	17	8	13
Total Farm Sales	\$143,922	\$154,829	\$118,012	\$149,777	\$ 67,791	\$ 87,868	\$136,545	\$225,443
Total Value Added	\$101,555	\$ 95,795	\$ 75,527	\$110,272	\$ 54,896	\$ 98,193	\$110,217	\$196,736
Proportion of Value Added (%)								
From Livestock	49	36	--	50	62	71	72	73
From Crops	49	62	96	47	34	27	27	25
Expenses								
Cash Exp./\$100 Sales	\$ 55	\$ 52	\$ 47	\$ 57	\$ 46	\$ 42	\$ 51	\$ 52
Purchases/\$100 Sales	\$ 88	\$ 69	\$ 78	\$ 96	\$ 61	\$ 75	\$ 87	\$ 98
Yields Per Acre								
Corn (Bushels)	119	119	127	120	112	100	113	125
Soybeans (Bushels)	39	39	37	47	40	35	46	25
Alfalfa (Tons)	4.4	2.4	--	4.3	4.9	3.9	5.2	5.2
Corn Silage (Tons)	17.2	--	--	19.0	18.1	15.4	16.6	15.5

^{a/} Land at market price.

Summary by Years, Southeastern Minnesota Farm Management Association

ITEMS	Average 1960-64	Average 1965-69	Average 1970-74	1973	1974	1975	1976	1977	1978	1979
Number of farms	158	134	114	118	112	101	78	80	74	83
Total farm capital managed	\$ 60988	\$ 84088	\$148924	\$174068	\$204978	\$246038	\$221625	\$314740	\$361093	\$382806
Monthly charge for:										
Unpaid family labor ^{a/}	147	160	410	350	400	450	500	500	600	700
Second operator ^{a/}	187	295	<u>b/</u>	<u>b/</u>	<u>b/</u>	<u>b/</u>	<u>b/</u>	833	1000	1000
Board for hired labor ^{a/}	40	45	69	75	90	120	130	120	120	180
FARM EXPENSES										
Dairy cattle bought	\$ 265	\$ 398	\$ 584	\$ 527	\$ 966	\$ 522	\$ 457	\$ 900	\$ 1480	\$ 2415
Beef cattle bought	1185	791	2304	3768	2080	2770	1506	1821	3272	3820
Hogs bought	386	504	796	1523	557	1573	1387	2199	2978	3677
Sheep bought (incl. feeders)	88	7	8	4	8	7	8	1	1	7
Poultry bought (incl. turkeys)	154	110	34	24	14	39	36	--	26	61
Horses bought	2	1	2	7	--	--	6	--	--	--
Miscellaneous livestock expense	731	947	1723	1978	2161	2552	3397	3668	4535	4650
Fertilizers bought	1085	1978	3906	4286	7362	7996	6169	7943	7484	8003
Miscellaneous crop expense ^{c/}	926	1878	3960	4869	6029	7266	6768	9016	12850	12752
Feed bought	3735	4279	7184	10372	10030	12059	14883	14217	14234	14789
Custom work hired	857	1295	1953	2023	2222	2285	2586	3280	3260	3727
Power & crop machinery (new)	1803	3538	6984	9096	9919	11499	9506	13773	16110	18608
Power & crop machinery (upkeep) ^{e/}	2378	2712	4757	5444	6384	7178	7123	8785	9341	11190
Livestock equipment (new)	412	658	1547	1544	3099	1673	2503	2908	2851	4391
Livestock equipment (upkeep)	171	225	505	649	710	794	937	1067	1136	1488
New real estate & improvements	1229	1930	3757	3648	5479	8584	6625	21806	21728	24550
Buildings and fencing (upkeep)	344	436	812	994	1188	1272	1177	1932	1685	2022
Hired labor	922	1123	2086	2335	2642	2896	3243	3947	3931	5026
Real estate taxes	1301	1589	2191	2287	2232	2795	2544	3262	3148	3403
General farm expense ^{f/}	409	555	959	1069	1270	1586	1698	2278	2294	2459
Total farm purchases	\$ 18383	\$ 24954	\$ 46052	\$ 56447	\$ 64352	\$ 75319	\$ 72559	\$102803	\$112342	\$127048
Decrease in farm capital	--	--	--	--	--	--	--	--	--	--
Interest on farm capital ^{d/}	3049	4482	9345	10444	14349	17223	15514	18884	25277	26796
Unpaid family labor	629	815	3485	8186	5132	4578	4254	2864	3801	3483
Board furnished hired labor	101	64	72	55	140	83	137	535	308	185
Total farm expenses	\$ 22162	\$ 30315	\$ 58954	\$ 75132	\$ 83973	\$ 97293	\$ 92464	\$25086	\$141728	\$157512

^{a/} These adjustments should be considered in comparing 1977 with previous years.

^{b/} Labor earnings was divided between the various partners.

^{c/} Includes chemicals.

^{d/} Interest was calculated at the rate of 5% on capital managed from 1950 to 1966, at 5.5% from 1967 to 1969, at 6% from 1970 to 1973, at 7% from 1974 to 1976, at 6% in 1977 and 1978, and at 7% in 1979.

^{e/} Including electricity expense (farm share).

^{f/} Including telephone expense (farm share).

Summary by Years, Southeastern Minnesota Farm Management Association (cont.)

ITEMS	Average 1960-64	Average 1965-69	Average 1970-74	1973	1974	1975	1976	1977	1978	1979
FARM RECEIPTS										
Dairy cattle sold	\$ 2061	\$ 3246	\$ 4746	\$ 5855	\$ 5552	\$ 4825	\$ 4937	\$ 5009	\$ 7601	\$ 9556
Dairy products sold	8105	11631	19710	20694	26432	24988	29269	32495	38562	43610
Beef cattle sold	2688	2148	5039	6310	5983	6206	4631	5988	7877	9361
Hogs sold	5961	7973	14437	22993	20670	33495	31272	35029	40948	33280
Sheep and wool sold	222	95	104	118	111	92	107	27	53	61
Poultry (incl. turkeys) sold	88	82	12	13	8	4	7	--	10	--
Eggs sold	1015	732	125	85	96	107	170	99	314	316
Horses sold	4	1	--	1	--	--	3	1	--	--
Corn sold	1594	2467	8865	11136	18267	13527	13763	16256	17743	22250
Soybeans sold	--	1689	6062	7991	12156	7897	8217	13767	13509	14552
Small grain sold	624	492	587	494	1407	1375	1974	1560	787	833
Other crops sold ^{a/}	2181	2582	2553	2568	1364	1825	1242	2616	2411	4354
Mach., & equip. sold & tax ref.	323	379	460	397	664	532	423	801	753	1156
Income from work off the farm	239	432	608	889	923	1417	1111	1169	1444	1760
Miscellaneous farm income	559	1022	1523	1768	1805	2562	2337	2566	3745	2817
Total farm sales	\$25664	\$34971	\$64831	\$ 81312	\$ 95438	\$ 98862	\$ 99463	\$117383	\$135757	\$143922
Increase in farm capital	601	3516	13137	33825	12241	11377	10400	30425	45408	32291
Family living from the farm	307	321	437	526	564	558	573	550	608	645
Total farm receipts	\$26572	\$38808	\$78405	\$115663	\$108243	\$110797	\$110436	\$148359	\$181773	\$176858
Total farm expenses	22162	30515	58954	75132	83973	97203	92464	125086	141728	157512
Labor and management earnings	\$ 4410	\$ 8293	\$19451	\$ 40531	\$ 24270	\$ 13594	\$ 17972	\$ 23273	\$ 40045	\$ 19346
MEASURES OF FARM ORGANIZATION AND MANAGEMENT EFFICIENCY										
Percent land in high ret crops ^{b/}	60.1	60.5	65.2	65.3	66.3	67.8	67.3	80.2	81.0	80.2
Livestock units per 100 acres ^{c/}	36.4	34.3	42.1	36.9	36.9	36.4	40.6	36.9	37.8	37.7
Work units ^{d/}	548	505	462	482	509	552	494	516	541	510
Work units per worker ^{d/}	318	305	323	284	283	272	261	276	282	267
Expenses per work unit ^{d/}	\$ 11.61	\$ 17.99	\$ 33.94	\$ 38.89	\$ 41.48	\$ 44.92	\$ 48.72	\$ 58.12	\$ 57.64	\$ 69.81

^{a/} Includes soybeans 1950-1965, crop disaster payments in 1976, and government payments for set aside acres since 1977.

^{b/} The crop ratings used in calculating the percentage of the tillable land in high return crops were considerably changed in 1957 and 1977.

^{c/} The basis for computing animal units was revised in 1951.

^{d/} The basis for computing work units was revised in 1953, 1967, and 1970.

Summary of Miscellaneous Items by Years - S.E. (continued)

ITEMS	Average 1960-64	Average 1965-69	Average 1970-74	1973	1974	1975	1976	1977	1978	1979
PRICE RECEIVED PER										
Pound of butterfat in milk	\$.94	\$ 1.15	\$ 1.60	\$ 1.73	\$ 2.06	\$ 2.07	\$ 2.46	\$ 2.49	\$ 2.64	\$ 3.15
Cwt. of milk	3.48	4.31	6.01	6.50	7.75	7.93	9.11	9.12	10.01	11.74
Cwt. of hogs	15.55	20.89	28.41	41.28	34.67	47.91	42.95	40.61	47.70	41.28
Cwt. of feeder cattle sold	22.61	24.02	34.22	43.58	38.02	37.80	35.03	37.85	50.62	63.73
Pound of wool sold	.62	.56	.67	1.08	.36	.24	--	--	--	--
Dozen of eggs sold	.28	.28	.34	.46	.47	.45	--	--	--	--
PRICE OF FEED										
Corn (per bu.)	\$.99	\$ 1.10	\$ 1.57	\$ 1.70	\$ 2.75	\$ 2.65	\$ 2.45	\$ 2.00	\$ 1.80	\$ 2.10
Barley (per bu.)	.91	.97	1.06	1.55	--	--	--	1.60	1.75	--
Oats (per bu.)	.61	.62	.89	.90	1.70	1.45	1.45	1.20	1.10	1.25
Oilmeal (per bu.)	4.36	4.99	7.46	13.50	--	--	--	--	--	--
Alfalfa (per ton)	19.40	20.80	26.20	30.00	40.00	60.00	70.00	50.00	40.00	40.00
Timothy hay (per ton)	11.22	12.00	14.44	18.70	18.70	--	--	--	--	--
Corn silage (per ton)	6.60	7.36	9.15	10.00	14.00	20.00	22.00	16.00	15.00	15.00
ACRES PER FARM										
Small grains	34.5	30.4	26.1	24.3	29.2	29.4	32.6	34.1	22.3	19.0
Cultivated crops	103.6	132.4	187.5	215.3	223.8	249.9	207.1	245.9	243.0	225.3
Tillable land in hay	39.4	40.0	43.3	41.4	43.5	45.6	45.1	46.0	48.0	42.5
Tillable land in pasture	16.6	12.8	9.2	8.6	7.0	7.5	6.8	2.8	5.5	17.1
Tillable land not cropped ^{a/}	14.4	22.0	18.4	8.2	.8	.8	1.5	-0.7 ^{b/}	13.7	3.1
Total tillable land	208.5	237.6	284.5	297.8	304.3	333.2	293.1	328.1	332.5	307.0
Non-tillable land	47.3	46.3	49.7	47.1	52.9	52.8	47.3	51.9	52.6	41.9
Total acres per farm	255.8	283.9	334.2	344.9	357.2	386.0	340.4	380.0	385.1	348.9
YIELD PER ACRE										
Corn (bu.)	72.4	86.8	96.2	109.3	77.6	90.1	86.1	119.9	124.8	119.4
Barley (bu.)	44.9	51.4	47.6	54.8	42.8	31.3	58.5	71.2	58.1	--
Oats (bu.)	58.3	62.4	61.6	61.0	63.5	62.4	67.0	76.0	65.1	66.1
Alfalfa (tons)	3.0	3.2	3.6	3.6	3.7	3.5	3.2	4.3	4.6	4.4
Soybeans (bu.)	23.6	24.4	28.4	33.0	23.1	28.1	29.8	43.0	39.2	39.0

-- Information not available.

^{a/} Including feed grain program.

^{b/} Negative sign means that area double cropped exceeded area not cropped by amount shown.

Summary of Miscellaneous Items by Years - S.E.

ITEMS	Average 1960-64	Average 1965-69	Average 1970-74	1973	1974	1975	1976	1977	1978	1979
RETURN ABOVE FEED COST PER										
Dairy cow	\$183.05	\$266.74	\$409.16	\$455.85	\$424.99	\$340.01	\$564.65	\$717.77	\$929.71	\$1,051.79
100 lbs. feeder cattle prod.	1.78	5.08	3.28	14.06	-28.90	7.09	-8.29	2.04	35.43	30.42
Ewe	5.40	7.52	10.36	15.99	-3.04	-19.17	-1.40	--	43.45	--
100 lbs. hogs produced	4.57	8.86	10.66	21.49	6.42	21.35	11.59	21.83	28.05	12.98
Hen	1.27	.84	.82	1.67	2.22	-.01	1.56	--	1.29	--
Beef cow	--	--	30.17	61.27	-63.88	-103.52	124.67	13.78	199.11	214.76
FEED COST PER										
Dairy cow	\$169.62	\$215.79	\$332.30	\$381.72	\$521.92	\$622.52	\$649.52	\$546.06	\$515.00	\$ 535.30
100 lbs. feeder cattle prod.	19.10	21.60	30.78	36.23	51.39	45.33	49.91	44.39	34.64	32.02
Ewe	13.46	19.51	32.17	32.46	56.97	66.60	67.05	--	27.67	--
100 lbs. hogs produced	10.65	11.90	16.86	20.77	26.00	27.35	24.95	19.60	22.23	24.10
Hen	3.28	3.31	3.38	4.27	3.88	5.44	5.14	--	5.26	--
Beef Cow	--	--	132.41	147.62	189.10	193.42	241.27	179.65	160.96	244.02
MISCELLANEOUS LIVESTOCK INFORMATION										
Number of dairy cows ^{a/}	22.2	24.2	26.6	25.8	27.6	25.3	22.4	26.0	29.9	25.5
Pounds of feeder cattle prod. ^{a/}	5573	4308	7297	8593	7882	6770	4655	4964	6809	8910
Litters of pigs ^{a/}	19.4	19.7	26.6	34.3	34.1	39.1	40.5	45.0	44.4	27.5
Pounds of hogs produced ^{a/}	36619	36519	46973	56762	59433	68265	72232	82772	76520	43182
Number of hens ^{a/}	197	138	26	14	15	17	20	--	38	--
Pounds of butterfat per dairy cow	375	417	458	457	462	474	486	509	523	504
Pigs weaned per litter	7.1	7.3	7.2	7.2	7.2	7.4	7.5	7.4	7.2	6.2
Number of ewes ^{a/}	4	3	2	2	2	1	1	--	1	--
Eggs per hen	205	201	186	168	181	200	185	--	243	--

-- Information not available.

^{a/} The reader is cautioned that these six items are calculated as follows. The total number of head, pounds, litters, hens, etc., reported by all farmers whose records are included in the summary averages, is divided by the number of records included in the analysis (first line, table 22). Thus, items are not averages per farm reporting this item. Instead, they are averages for all farms included in the summary regardless of whether all farms had that particular livestock enterprise or not. The correct interpretation of such information is to display trends over time in agriculture in the areas in which record keepers live whose records are included in the summary. For example, the number of hens is increasing, the number of litters being farrowed is increasing, etc., in the general area covered by the Southeastern Minnesota Farm Management Association.