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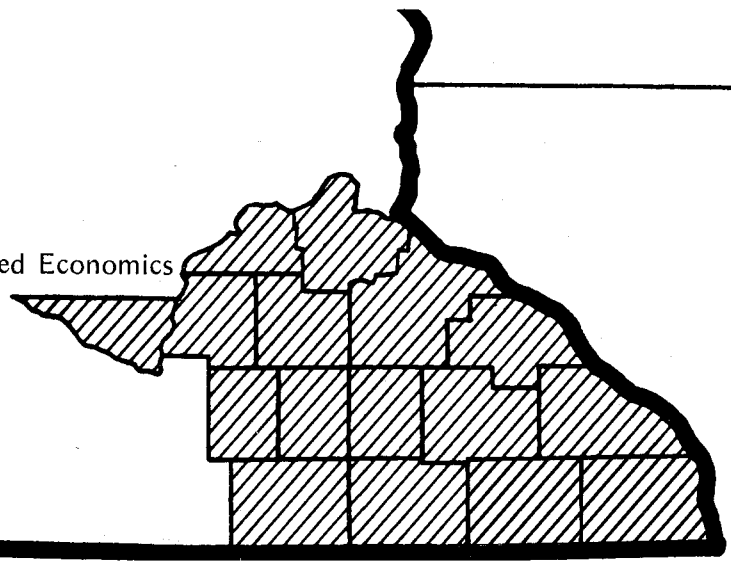
1981
annual report

Southeastern Minnesota Farm Management Association

COOPERATING AGENCIES:

University of Minnesota, Institute of Agriculture
County Extension Services of the 16 Southeastern Counties
Southeastern Minnesota Farm Management Association



Economic Report ER 82-2
Department of Agricultural and Applied Economics
Institute of Agriculture
St. Paul, Minnesota 55108
March 1982

ERRATA SHEET

1981 Annual Report of the Southeastern Minnesota
Farm Management Association

Page 4 - Line #8

$252,295 should be $252,726

Page 5 - Line 8 13 Least Profitable Farms

$355,813 should be $357,904

Page 43 - Lines 1 through 17 under

Goodhue, Olmsted, Wabasha, Winona, Houston
28
407
336
$203,125
$466,904
$ 9,264
$194,890
$183,358
$ 1,388
$ 14,391
$ 36,573
$190,759
$(-18,821)
1.865
$ 10,226
$ 20,360
$ 47,011

1981 ANNUAL REPORT OF THE SOUTHEASTERN MINNESOTA FARM MANAGEMENT ASSOCIATION

by

Delane E. Welsch and Lorin Westman

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., was the fieldman for the period January 1-June 30, 1981. Lorin Westman assumed the position of fieldman on December 28, 1981 and was responsible for closing and coding the records that are contained in this report. Kenneth H. Thomas is the Extension Economist in Farm Management working closely with this Association. Arnold Sandager is the District Program Leader in Agriculture with the Agricultural Extension Service and works with the counties which are served by the Association.

Of the 111 farms in the Southeastern Association, 67 submitted records at the time of this report. The data for 62 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 1981 and the difference in enterprise earnings as well as in total farm earnings between groups of farms.

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.

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*Welsch is Professor of Farm Management; Westman 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: Darrell Borneman, Edward Dormody, Charles Kiefer, Allan Routh, Delores Dallmann, and Terri Westman for their assistance in account book closing and coding; Keith Banta, Ann Niles, Luke Retka, Randy Sticha, Warren Winkleman, and Charles Worm for their careful review of each analysis, correction of errors, constructing the tables, and excellent help and good humor, in general, throughout the process of producing the analyses and the report; Lai Chun Kan for special computer programming; Jeff Apland, Erlin Weness, and Burt Sundquist for review; all of the SDS staff for their helpfulness; and most importantly, to Carol Hansen and Elaine Johnson for all of their secretarial and clerical work throughout the report, and especially for putting this report together.

SOUTHEASTERN MINNESOTA FARM MANAGEMENT ASSOCIATION

DISTRIBUTION OF MEMBERSHIP

1981

County	Number of Members	Number of Records Submitted	Association Directors	Alternates	County Extension Directors
Dakota	9	4	John Harkness[b]	Leo Legare[b]	Warren N. Sifferath
Dodge	11	4	Don Zimmerman[b]	Vic Emerson[b]	David H. Hanson
Mower	3	1	Don Zimmerman[b]	Vic Emerson[b]	Harlan L. Johnsrud
Freeborn	11	5	Chuck Vollum[a] Neuman Riskedahl[c]	Neuman Riskedahl[a] Stan Updahl[c]	Eldon H. Senske
Goodhue	18	13	Owen Knutson[b]	John Schwartau[b]	Richard C. Walter
Houston	1	1	Ellsworth Simon, Vice-Pres.[b]	Ray Mussell, Jr.[b]	Russell L. Krech
Winona	6	4	Ellsworth Simon, Vice-Pres.[b]	Ray Mussell, Jr.[b]	Neil R. Broadwater
LeSueur	8	5	Phil Meyer[a] Donald Meyer[c]	none	Robert J. Leary
Nicollet	2	2		none	Gary A. Hachfeld
Waseca	1	1			Roger M. Wilkowske
Olmsted	9	7	Harold Frost, President[a] James Till[c]	Kenneth Mensing[a] Richard Pike[c]	David Kjome
Fillmore	3	0			Milton Holberg
Rice	5	2	George Duban[a]	Steve Albers[a]	Cynthia Grass
Scott	10	8	Dennis Gerold[b]	Paul Krueger[b]	David D. Hart
Steele	6	5	Norman Abbe[b]	Donald Wilker[b]	Larry A. Tande
Wabasha	8	5	Forest Lamprecht[a] Robert Lamprecht[c]	James Walker[a] John Sloan[c]	Mathias P. Metz
TOTAL	111	67			

[a] Term expires June 30, 1981

[b] Term expires June 30, 1982

[c] Term expires June 30, 1983

1980 ANNUAL REPORT OF THE SOUTHEASTERN MINNESOTA FARM MANAGEMENT ASSOCIATION

TABLE OF CONTENTS

	Page
Inside Title Page and Introduction	1
Distribution of Membership	2
Table of Contents	3
Table 1 - Farm Inventories	4 & 5
Table 2A - Total Farm Receipts	6
Table 2B - Total Farm Expenses & Labor & Management Earnings	7
Table 3 - Enterprise Statement	8
Table 4 - Household & Personal Expense & Family Living from the Farm	9
Table 5 - Operator's Net Worth Statement & Suppl. Financial Information	10 & 11
Table 6A - Operator's Share of Total Farm Receipts	12
Table 6B - Operator's Share of Total Farm Expenses	13
Explanatory Notes for Tables 2A, 2B, 3, 6A, and 6B	14
Table 7 - Supplementary Information Used in Enterprise Analysis	15
Description of Measures of Farm Organization & Management Efficiency	16
Average Price Received for Crops Sold	17
Table 8 - Measures of Farm Organization and Efficiency	18
Thermometer Chart	19
Table 9 - Crop Acres, Yields, Returns & Suppl. Management Information	20
Description of Crops Tables	21
Table 10-0105 - Oats - Feed	22
Table 10-0195 - Spring Wheat	23
Table 10-0275 - Corn for Grain	24
Table 10-0335 - Soybeans	25
Table 10-0365 - Canning Peas	26
Table 10-0400 - Alfalfa Hay	27
Table 10-0545 - Grain (Oats) Silage	28
Table 10-0550 - Corn Silage	29
Table 10-0570 - Legume Pastures	30
Table 10-0585 - Non-Tillable Prairie Pastures	31
Description of Livestock Tables	32
Table 11A-6470 - Hogs, Farrow-to-Finish	33
Table 11B-6490 - Hog Finishing Enterprise	34
Table 11C-6530 - Hogs, Mixed Systems	35
Table 12-6290 - Dairy Cows, Commercial Herds	36
Table 13A-6310 - Other Dairy Cattle, Commercial Herd Replacements	37
Table 13B-6318 - Other Dairy Cattle, Replacements & Feeder Stock Combined	38
Table 14 - All Dairy Cattle	39
Table 15A-6100A - Beef Breeding Cattle, Farm, Commercial Herd	40
Table 15B-6140A - Beef Feeder Cattle, Feedlot	41
Table A - Averages by Type of Farm	42
Table B - County Averages	43 & 44
Table C - Summary by Years - Whole Farm Analysis	45 & 46
Table D - Summary by Years - Operator's Share Analysis	47
Table E - Miscellaneous Items - Summary by Years	48 & 49

TABLE 1. FARM INVENTORIES - 1981 - S.E.

	ITEMS	Average of 63 Farms	
1	SIZE OF FARM-TOTAL ACRES	382.1	
2	-TILLABLE ACRES	327.3	
3	WORK UNITS-CROPS	168.69	
4	-LIVESTOCK	381.78	
5	-OTHER	7.28	
6	TOTAL SIZE OF BUSINESS IN WORK UNITS	557.74	
7	NUMBER OF WORKERS	2.05	
8	FARM CAPITAL INVESTMENT PER WORKER	$252,295	
9	PRODUCTIVE LIVESTOCK	JAN. 1	DEC. 31
10	DAIRY COWS	$ 19,388	$ 21,071
11	OTHER DAIRY CATTLE	15,229	14,091
12	BEEF BREEDING CATTLE	2,672	2,239
13	BEEF FEEDER CATTLE	8,465	8,538
14	HOGS	18,083	17,508
15	SHEEP (INCLUDING FEEDERS) & GOATS	67	62
16	POULTRY-ALL TYPES	--	--
17	OTHER LIVESTOCK	--	--
18	TOTAL PRODUCTIVE LIVESTOCK	$ 63,904	$ 63,510
19	CROP, SEED AND FEED	$ 65,521	$ 69,510
20	POWER, MACHINERY AND EQUIPMENT		
21	AUTO AND TRUCK (FARM SHARE)	$ 4,661	$ 4,542
22	POWER AND MACHINERY	37,710	39,029
23	IRRIGATION EQUIPMENT	967	776
24	CUSTOM WORK EQUIPMENT	--	--
25	LIVESTOCK EQUIPMENT	13,753	13,968
26	TOTAL POWER, MACHINERY AND EQUIPMENT	$ 57,090	$ 58,315
27	LAND	$198,678	$204,086
28	BUILDINGS-FENCES-ETC.	67,218	66,269
29	TOTAL FARM CAPITAL	$452,411	$461,691
30	INCREASE OR DECREASE IN TOTAL FARM CAPITAL		$ 9,280

TABLE 1 shows the beginning and end of the year inventories of farm capital. These inventories include both the value of the operator's assets, as well as the landlord'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 the year, multiplied by a conservative market price on January 1, and December 31 (as shown in TABLE 7). Power, Machinery and Equipment are priced at cost basis less depreciation on January 1, and December 31. Land is valued at cost basis. No change in the price of land was allowed, so the same value is used for January 1, and for December 31. 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 in line 7 includes the operator(s), hired workers, unpaid family members, and the labor portion of custom work hired.

TABLE 1. FARM INVENTORIES - 1981 (CONT.) - S.E.

	ITEMS	13 Most* Profitable Farms		13 Least* Profitable Farms	
1	SIZE OF FARM-TOTAL ACRES	497.9		406.4	
2	-TILLABLE ACRES	461.2		348.3	
3	WORK UNITS-CROPS	241.83		183.12	
4	-LIVESTOCK	615.67		264.60	
5	-OTHER	1.18		16.54	
6	TOTAL SIZE OF BUSINESS IN WORK UNITS	858.68		464.27	
7	NUMBER OF WORKERS	3.23		1.82	
8	FARM CAPITAL INVESTMENT PER WORKER	$209,759		$355,813	
9	PRODUCTIVE LIVESTOCK	JAN. 1	DEC. 31	JAN. 1	DEC. 31
10	DAIRY COWS	$ 26,476	$ 28,446	$ 14,727	$ 15,415
11	OTHER DAIRY CATTLE	16,700	17,478	12,988	13,227
12	BEEF BREEDING CATTLE	1,935	2,127	1,769	1,562
13	BEEF FEEDER CATTLE	9,562	9,952	3,118	2,461
14	HOGS	25,727	25,089	16,114	17,615
15	SHEEP (INCLUDING FEEDERS) & GOATS	--	--	--	--
16	POULTRY-ALL TYPES	--	--	--	--
17	OTHER LIVESTOCK	--	--	--	--
18	TOTAL PRODUCTIVE LIVESTOCK	$ 80,400	$ 83,092	$ 48,717	$ 50,280
19	CROP, SEED AND FEED	$ 95,902	$105,926	$ 66,064	$ 66,668
20	POWER, MACHINERY AND EQUIPMENT				
21	AUTO AND TRUCK (FARM SHARE)	$ 6,664	$ 6,712	$ 4,553	$ 4,632
22	POWER AND MACHINERY	60,455	63,088	38,085	35,713
23	IRRIGATION EQUIPMENT	3,806	2,977	879	785
24	CUSTOM WORK EQUIPMENT	---	--	--	--
25	LIVESTOCK EQUIPMENT	23,550	23,414	15,630	15,943
26	TOTAL POWER, MACHINERY & EQUIPMENT	$ 94,475	$ 96,191	$ 59,147	$ 57,073
27	LAND	$243,084	$255,820	$288,702	$296,597
28	BUILDINGS-FENCES-ETC.	92,101	84,104	84,388	91,327
29	TOTAL FARM CAPITAL	$605,962	$625,134	$547,018	$561,945
30	INCREASE OR DECREASE IN TOTAL FARM CAPITAL		$ 19,172		$ 14,927

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

TABLE 2A. TOTAL FARM RECEIPTS - 1981 - S.E.

	ITEMS	Average of 63 Farms	13 Most Profitable Farms	13 Least Profitable Farms
1	SALE OF LIVESTOCK & LIVESTOCK PRODUCTS			
2	DAIRY COWS	$ 4,322	$ 7,741	$ 2,183
3	DAIRY PRODUCTS	57,009	104,709	303,349
4	OTHER DAIRY CATTLE	5,691	3,993	8,784
5	BEEF BREEDING CATTLE	706	--	416
6	BEEF FEEDER CATTLE	11,492	13,140	2,438
7	HOGS COMPLETE & MIXED	37,666	56,848	37,264
8	HOGS FINISHING	4,662	4,469	155
9	HOGS PRODUCING WEANING PIGS	442	--	1,798
10	SHEEP, GOATS & WOOL, FARM FLOCK	80	--	--
11	SHEEP & WOOL, FEEDER LAMBS	--	--	--
12	CHICKENS (INCLUDING HENS & BROILERS)	--	--	--
13	TURKEYS	--	--	--
14	EGGS	--	--	--
15	OTHER PRODUCTIVE LIVESTOCK & PRODUCTS	--	--	--
16	OTHER MISCELLANEOUS LIVESTOCK INCOME	--	--	--
17	TOTAL SALES OF PRODUCTIVE LIVESTOCK	$122,069	$190,900	$ 83,386
18	SALE OF CROPS			
19	WHEAT	$ 424	$ 187	$ 299
19A	DURUM	--	--	--
20	OTHER SMALL GRAINS	659	531	203
21	CORN	22,585	35,253	35,920
22	SOYBEANS	13,764	24,008	20,343
22A	SUNFLOWERS	--	--	--
23	OTHER ROW CROPS	591	482	1,120
24	LEGUMES & OTHER FORAGE	318	727	171
25	GRASS SEED	--	--	--
26	FRUITS & NUTS	--	--	--
27	VEGETABLE ROADSIDE MARKET & SPECIALTY	--	--	--
28	NURSERY, TIMBER & OTHER	92	--	77
29	SET ASIDE - GOVERNMENT PAYMENTS	59	--	--
30	TOTAL SALES FROM CROPS	$ 38,492	$ 61,188	$ 58,132
31	CAPITAL ASSETS SOLD (AUTO/TRUCK/MACH.)	$ 221	$ 849	$ 125
31A	CAPITAL ASSETS SOLD (BLDGS. & IMPROVEMENTS)	1,377	6,671	--
31B	CAPITAL ASSETS SOLD (LAND)	1,293	6,154	75
32	GAS TAX REFUND	111	40	251
33	INCOME FROM WORK OFF THE FARM	1,605	319	2,689
34	CUSTOM WORK ENTERPRISE INCOME	--	--	--
35	PATRONAGE REFUNDS	2,171	2,872	2,772
36	MISCELLANEOUS FARM INCOME	1,127	1,589	1,028
37	TOTAL FARM SALES	$168,465	$270,582	$148,459
38	INCREASE IN FARM CAPITAL	$ 9,280	$ 19,173	$ 14,927
39	FAMILY LIVING FROM THE FARM	730	947	313
40	TOTAL FARM RECEIPTS (37)+(38)+(39)	$178,475	$290,702	$163,699

SEE PAGE 14 FOR EXPLANATORY NOTE FOR THIS TABLE.

TABLE 2B. TOTAL FARM EXPENSES AND LABOR AND MANAGEMENT EARNINGS - 1981 - S.E.

	ITEMS	Average of 63 Farms	13 Most Profitable Farms	13 Least Profitable Farms
1	PURCHASE OF LIVESTOCK			
2	DAIRY COWS	$ 283	$ 292	$ 868
3	OTHER DAIRY CATTLE	734	204	2,292
4	BEEF BREEDING CATTLE	45	--	--
5	BEEF FEEDER CATTLE	4,455	1,933	406
6	HOGS COMPLETE AND MIXED	1,291	473	3,022
7	HOGS FINISHING	1,482	1,876	--
8	HOGS PRODUCING WEANING PIGS	21	--	57
9	SHEEP AND GOATS	1	--	--
10	SHEEP, FEEDER LAMBS	--	--	--
11	CHICKENS (INCL. HENS AND BROILERS)	--	--	--
12	TURKEYS	--	--	--
13	OTHER PRODUCTIVE LIVESTOCK	--	--	--
14	MISCELLANEOUS LIVESTOCK EXPENSE	5,870	7,460	4,230
15	FEED BOUGHT	21,882	24,332	24,935
16	FERTILIZER	10,399	13,274	14,560
17	CHEMICALS	6,166	7,179	8,257
18	OTHER CROP EXPENSE	7,963	9,384	11,079
19	IRRIGATION OPERATION COSTS	83	--	404
20	CUSTOM WORK ENTERPRISE OPERATOR COSTS, INCLUDING LABOR	--	--	--
21	CUSTOM WORK HIRED	5,183	6,797	6,578
22	REPAIR + UPKEEP OF LIVESTOCK EQUIPMENT	1,615	2,436	1,956
23	REPAIR + UPKEEP OF FARM REAL ESTATE	1,784	2,655	1,759
24	GAS, OIL, GREASE BOUGHT (FARM SHARE)	6,565	8,945	7,232
25	REPAIR + OPERATION OF MACHINERY, TRACTOR, TRUCK AND AUTO	5,495	7,232	5,572
26	REPAIR + UPKEEP OF IRRIGATION EQUIPMENT	--	--	--
27	REPAIRS, CUSTOM WORK ENTERPRISE	--	--	--
28	WAGES OF HIRED LABOR	4,310	911	4,966
29	PERSONAL PROPERTY + REAL ESTATE TAXES	3,351	4,549	3,994
30	GENERAL FARM EXPENSE	3,156	4,093	3,372
31	TELEPHONE EXPENSE (FARM SHARE)	290	309	292
32	ELECTRICITY EXPENSE (FARM SHARE)	2,759	3,887	2,852
33	TOTAL CASH OPERATING EXPENSE	$ 95,187	$116,423	$108,684
34	POWER, CROP AND GENERAL MACHINERY BOUGHT (FARM SHARE)	$ 13,536	$ 22,452	$ 9,090
35	IRRIGATION EQUIPMENT BOUGHT	--	--	--
36	CUSTOM WORK EQUIPMENT BOUGHT	--	--	--
37	LIVESTOCK EQUIPMENT BOUGHT	3,886	6,531	4,930
38	NEW REAL ESTATE + IMPROVEMENTS	15,395	29,512	24,426
39	TOTAL FARM PURCHASES (33) THRU (38)	$128,004	$174,919	$147,131
40	DECREASE IN FARM CAPITAL	--	--	--
41	INTEREST ON FARM CAPITAL	31,993	43,088	38,817
42	UNPAID FAMILY LABOR	784	318	1,256
43	LABOR CHARGE FOR PARTNERS + OTHER OPERATORS	4,522	10,862	769
44	BOARD FURNISHED HIRED LABOR	312	473	387
45	TOTAL FARM EXPENSE (39) THRU (44)	$165,615	$229,661	$188,360
46	RETURN TO OPER. LABOR & MGMT.-SINGLE OPER. (WHOLE FARM) (2A/40)-(45)	$ 12,860	$ 61,041	$(-24,661)
	See page 14 for explanation of lines 46 and 49			
48	FULL-TIME OPERATOR EQUIVALENTS	1.34	1.70	1.08
49	RETURN TO OPER. LABOR & MGMT./FULL-TIME OPER. EQUIVALENT	$ 10,329	$ 46,512	$(-20,148)

TABLE 3. ENTERPRISE STATEMENT - 1981 - S.E.

	ITEMS	Average of 63 Farms	13 Most Profitable Farms	13 Least Profitable Farms
1	RETURNS AND NET INCREASES			
2	PRODUCTIVE LIVESTOCK			
3	DAIRY COWS	$ 55,186	$104,893	$ 26,699
4	OTHER DAIRY CATTLE	12,674	17,233	12,541
5	BEEF BREEDING CATTLE	774	962	1,046
6	FEEDER CATTLE	5,949	8,881	587
7	HOGS, COMPLETE AND MIXED	36,187	55,512	36,152
8	HOG FINISHING ENTERPRISE	2,734	2,917	44
9	HOGS PRODUCING WEANING PIGS	577	--	1,547
10	SHEEP AND GOATS	75	--	--
11	SHEEP, FEEDER LAMBS	--	--	--
12	CHICKENS (INCLUDING HENS & BROILERS)	--	--	--
13	TURKEYS	--	--	--
14	OTHER PRODUCTIVE LIVESTOCK	--	--	--
15	TOTAL ALL PRODUCTIVE LIVESTOCK	$114,157	$189,897	$ 78,617
16	VALUE OF FEED FED TO LIVESTOCK (MINUS)	69,134	100,693	56,180
17	RETURN OVER FEED FROM LIVESTOCK	45,023	89,204	22,436
18	CROP, SEED AND FEED	65,055	117,599	55,681
19	COOPERATIVE PATRONAGE REFUNDS	2,171	2,872	2,772
20	MISCELLANEOUS FARM INCOME	1,127	1,589	1,028
21	CUSTOM WORK ENTERPRISE	--	--	--
22	TOTAL RETURNS AND NET INCREASES	$113,376	$211,264	$ 81,918
23	EXPENSES AND NET DECREASES			
24	TRUCK AND AUTO (FARM SHARE)	$ 6,052	$ 8,451	$ 6,119
25	TRACTORS AND CROP MACHINERY	21,055	32,546	20,908
26	IRRIGATION EQUIPMENT	191	829	94
27	ELECTRICITY	2,759	3,887	2,852
28	LIVESTOCK EQUIPMENT	5,266	8,710	6,770
29	BUILDINGS, FENCES AND TILING	9,869	14,603	11,322
30	BARE LAND	181	--	47
31	MISCELLANEOUS LIVESTOCK EXPENSE	5,870	7,460	4,230
32	LABOR	5,961	10,837	7,086
33	LABOR CHARGE FOR OTHER OPERATOR(S)	4,522	10,862	769
34	PROPERTY TAX	3,351	4,549	3,994
35	GENERAL FARM EXPENSE AND TELEPHONE	3,446	4,402	3,665
36	INTEREST ON FARM CAPITAL	31,993		38,817
37	TOTAL EXPENSES AND NET DECREASES	$100,516	$150,223	$106,579
38	RETURN TO OPERATOR LABOR AND MGMT.	$ 12,860	$ 61,041	$(-24,661)

SEE PAGE 14 FOR EXPLANATORY NOTE FOR THIS TABLE.

TABLE 4. HOUSEHOLD & PERSONAL EXPENSE AND FAMILY LIVING FROM THE FARM - 1981 - S.E.

	ITEMS	Average of 22 Farms	5 Most Profitable Farms	4 Least Profitable Farms
1	NUMBER OF PERSONS - FAMILY	4	4	4
2	NUMBER OF ADULT EQUIVALENTS - FAMILY	3.0	3.4	2.8
3	CHURCH AND WELFARE	$ 1,308	$ 1,874	$ 854
4	MEDICAL CARE AND HEALTH INSURANCE	1,615	1,824	1,882
5	FOOD AND MEALS BOUGHT	3,167	2,474	4,333
6	OPERATING EXPENSE AND SUPPLIES	1,114	1,452	1,643
7	FURNISHINGS AND EQUIPMENT	958	1,077	1,418
8	CLOTHING AND CLOTHING MATERIALS	1,194	767	2,413
9	PERSONAL CARE, PERSONAL SPENDING	592	526	1,168
10	EDUCATION	394	211	300
11	RECREATION	1,017	1,235	1,314
12	GIFTS AND SPECIAL EVENTS	1,612	1,085	1,298
13	PERSONAL SHARE TRUCK & AUTO EXPENSE	1,097	1,460	1,732
14	OPERATOR SHARE UPKEEP ON DWELLING	537	18	340
14A	CASH RENT (PERSONAL)	--	--	--
15	PERSONAL SHARE TELEPHONE & ELECTRICITY EXPENSE	614	978	757
15A	PERSONAL SHARE-GENERAL FARM EXPENSE	24	34	--
16	TOTAL CASH LIVING EXPENSE	$15,243	$15,015	$19,450
17	PERSONAL SHARE NEW TRUCK & AUTO	1,454	2,812	2,000
18	NEW DWELLING BOUGHT	1,207	5,000	--
19	TAXES AND OTHER DEDUCTIONS	5,022	8,156	3,222
20	LIFE INSURANCE & OTHER SAVINGS & INVESTMENTS	8,684	20,442	6,287
21	TOTAL HOUSEHOLD & PERSONAL (16) THRU (20)	$31,609	$51,424	$30,959
22	TOTAL FAMILY LIVING FROM THE FARM (33)	$ 838	$ 2,049	$ 186
23	TOTAL CASH & NON-CASH EXPENSES (21) + (22)	$32,447	$53,473	$31,145
24	VALUE OF FARM PRODUCTS CONSUMED ON THE FARM			
25		QUANTITY	QUANTITY	QUANTITY
26	MILK AND CREAM (QUARTS)	897	3,040	--
27	BEEF AND BUFFALO (POUNDS)	516	798	--
28	PORK (POUNDS)	146	94	628
33	TOTAL FAMILY LIVING FROM THE FARM	$ 838	$ 2,049	$ 186

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 & MEALS BOUGHT). As a result, only 22 out of 63 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 accounts at the end of the year. If the family is unable or unwilling to keep accurate household accounts, then a household checking account separate from the farm checking account might be used. Values of items listed in lines 26-32 were assigned by the farm operator.

TABLE 5. OPERATOR'S NET WORTH STATEMENT AND SUPPLEMENTARY FINANCIAL INFO. - 1981 - S.E.

	ITEMS	Average of 35 Farms Jan. 1	Dec. 31
1	TOTAL PRODUCTIVE LIVESTOCK	$ 52,433	$ 55,647
2	CROP, SEED AND FEED	60,857	64,902
3	TOTAL POWER, MACHINERY AND EQUIPMENT	48,985	48,358
4	LAND (ACRES OWNED 247.2) (TILLABLE 203.9)	93,886	101,549
5	BUILDINGS, FENCES, ETC.	60,898	60,107
6	TOTAL FARM CAPITAL	$317,060	$330,563
7	NON-FARM ASSETS	$ 48,652	$ 56,386
7A	CASH ON HAND AND IN BANK	8,837	7,180
8	DWELLING	16,385	17,745
9	TOTAL ASSETS	$390,934	$411,875
10	REAL ESTATE MORTGAGES	100,342	116,515
11	CHATTEL MORTGAGES	16,278	18,832
12	NOTES	35,244	37,038
13	ACCOUNTS PAYABLE	1,789	877
14	TOTAL LIABILITIES	$153,652	$173,263
15	FARMER'S NET WORTH	$237,282	$238,612
16	GAIN (OR LOSS) IN NET WORTH		$ 1,330
17	SUPPLEMENTARY FINANCIAL MANAGEMENT INFORMATION		
18	RETURN TO OPERATORS LABOR & MANAGEMENT (6B/47)	$ 11,197	
19	RETURN TO CAPITAL AND FAMILY LABOR (6B/48)	17,560	
20	NON-FARM INCOME	--	
21	OUTSIDE INVESTMENT INCOME	3,247	
22	OTHER PERSONAL INCOME & INCOME TAX REFUND	3,941	
22A	SALE OF PERSONAL SHARE - DWELLING, AUTO & TRUCK	22	
23	TOTAL NON-FARM INCOME	$ 7,210	
24	TOTAL FAMILY FARM AND NON-FARM INCOME	$ 24,770	
25	TOTAL MONEY BORROWED	$ 70,497	
26	TOTAL PAID ON DEBT (PRINCIPAL)	$ 51,620	
27	TOTAL HOUSEHOLD + PERSONAL CASH/NON-CASH EXP. (4/23)	$ 19,953	
28	RATIO TOTAL FARM EXP. TO TOTAL FARM RCPTS. OPER. SHARE	.964	
		JAN. 1	DEC. 31
29	RATIO TOTAL ASSETS TO TOTAL LIABILITIES	2.544	2.347
30	RATIO NON-REAL EST. ASSETS TO NON-REAL EST. LIAB.	4.122	4.097
31	RATIO REAL EST. ASSETS TO REAL EST. LIAB.	1.706	1.495
32	RATIO NET WORTH TO TOTAL LIABILITIES	1.544	1.347
33	RATIO CASH OPER. EXP. TO ADJ. TOTAL FARM SALES (O.S.)		.758
34	RATIO TOTAL FARM RECEIPTS TO AVG. FARM CAPITAL (W.F.)		.374
35	RATIO TOTAL FARM RECEIPTS TO AVG. FARM CAPITAL (O.S.)		.515

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. - 1981 (CONT.) - S.E.

	ITEMS	6 Most Profitable Farms		7 Least Profitable Farms	
		Jan. 1	Dec. 31	Jan. 1	Dec. 31
1	TOTAL PRODUCTIVE LIVESTOCK	$ 68,731	$ 72,853	$ 78,889	$ 81,860
2	CROP, SEED AND FEED	74,662	86,253	69,608	78,234
3	TOTAL POWER, MACH. & EQUIP.	55,705	55,883	63,732	58,300
4*	LAND	52,868	80,463	119,587	134,250
5	BUILDINGS, FENCES, TILE, ETC.	88,525	90,749	90,212	95,386
6	TOTAL FARM CAPITAL	$340,491	$386,201	$422,028	$448,029
7	NON-FARM ASSETS	$ 91,948	$108,628	$ 40,716	$ 43,560
7A	CASH ON HAND AND IN BANK	23,539	20,639	8,963	9,592
8	DWELLING	17,514	17,697	18,442	18,548
9	TOTAL ASSETS	$473,491	$533,164	$490,150	$493,638
10	REAL ESTATE MORTGAGES	69,041	94,256	163,716	208,455
11	CHATTEL MORTGAGES	18,860	18,995	47,720	63,050
12	NOTES	45,711	64,648	33,108	23,094
13	ACCOUNTS PAYABLE	2,411	198	1,178	2,149
14	TOTAL LIABILITIES	$136,022	$178,097	$245,721	$296,749
15	FARMER'S NET WORTH	$337,469	$355,067	$244,429	$222,980
16	GAIN (OR LOSS) IN NET WORTH		$ 17,598		$(-21,449)
17	SUPPLEMENTARY FINANCIAL INFORMATION				
18	RET. TO OPER. LABOR & MGMT. (6B/47)		$ 54,950		$(-25,793)
19	RET. TO CAP. & FAMILY LABOR (6B/48)		62,579		(-25,490)
20	NON-FARM INCOME		--		--
21	OUTSIDE INVESTMENT INCOME		8,235		2,895
22	OTHER PERS. INCOME & TAX REFUND		5,211		2,170
22A	SALE PERS. SHARE DWELLING, AUTO, TRUCK		--		111
23	TOTAL NON-FARM INCOME		$ 13,446		$ 5,176
24	TOTAL FAMILY FARM & NON-FARM INCOME		$ 76,025		$(-20,313)
25	TOTAL MONEY BORROWED		$ 85,368		$113,731
26	TOTAL PAID ON PRINCIPAL		$ 43,193		$ 62,904
27	TOTAL HH & PERS. CASH & NON-CASH (4/23)		$ 42,032		$ 11,777
28	RATIO: TOTAL FARM EXP./RCPTS. (O.S.)		.778		1.295
		JAN. 1	DEC. 31	JAN. 1	DEC. 31
29	RATIO: TOTAL ASSETS TO LIABILITIES	3.481	2.994	1.995	1.663
30	RATIO: NON-REAL EST. ASSETS TO LIAB.	4.697	4.106	3.194	3.076
31	RATIO: REAL EST. ASSETS/REAL EST. LIAB.	2.302	2.004	1.394	1.065
32	RATIO: NET WORTH/TOTAL LIABILITIES	2.481	1.994	.995	.663
33	RATIO: CASH OP. EXP./ADJ. TOT FM SALES O.S.		.602		.975
34	RATIO: TOT FM RCPTS/AVG. FARM CAP. W.F.		.586		.336
35	RATIO: TOT FM RCPTS/AVG. FARM CAP. O.S.		.681		.417

so for credit purposes, the operator may wish to revalue those classes of assets. While TABLE 1 shows farm assets for all 63 farms included in the Association averages, TABLE 5 includes data from only those 35 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. O.S. = Operators Share; W.F. = Whole Farm.

* Most Profitable Farms (Acres owned 316.4) (Tillable 281.0)

Least Profitable Farms (Acres owned 306.7) (Tillable 242.3)

TABLE 6A. OPERATOR'S SHARE OF TOTAL FARM RECEIPTS - 1981 - S.E.

	ITEMS	Average of 63 Farms	13 Most Profitable Farms	13 Least Profitable Farms
1	SALE OF LIVESTOCK AND LIVESTOCK PRODUCTS			
2	DAIRY COWS	$ 4,318	$ 8,373	$ 2,183
3	DAIRY PRODUCTS	57,009	125,634	30,349
4	OTHER DAIRY CATTLE	5,691	4,421	8,784
5	BEEF BREEDING CATTLE	706	674	2,062
6	BEEF FEEDER CATTLE	11,309	14,939	17,987
7	HOGS COMPLETE AND MIXED	35,421	30,190	38,735
8	HOGS FINISHING	4,662	5,470	155
9	HOGS PRODUCING WEANING PIGS	442	--	1,798
10	SHEEP, GOATS & WOOL, FARM FLOCK	80	--	263
11	SHEEP & WOOL, FEEDER LAMBS	--	--	--
12	CHICKENS (INCLUDING HENS & BROILERS)	--	--	--
13	TURKEYS	--	--	--
14	EGGS	--	--	--
15	OTHER PRODUCTIVE LIVESTOCK & PRODUCTS	--	--	--
16	OTHER MISCELLANEOUS LIVESTOCK INCOME	--	--	--
17	TOTAL SALES OF PRODUCTIVE LIVESTOCK	$119,638	$189,700	$102,316
18	SALE OF CROPS			
19	WHEAT	405	--	299
19A	DURUM	--	--	--
20	OTHER SMALL GRAIN	653	1,308	312
21	CORN	20,754	28,412	28,656
22	SOYBEANS	13,095	20,665	12,742
22A	SUNFLOWERS	--	--	--
23	OTHER ROW CROPS	591	482	1,120
24	LEGUMES & OTHER ROUGHAGE	185	46	(-127)
25	GRASS SEED	--	--	--
26	FRUITS AND NUTS	--	--	--
27	VEGETABLES, ROADSIDE MARKET & SPECIALTY	--	--	--
28	NURSERY, TIMBER & OTHER	92	--	446
29	SET ASIDE ACRES - GOVERNMENT PAYMENTS	48	--	--
30	TOTAL SALES FROM CROPS	$ 35,822	$ 50,912	$ 43,448
31	CAPITAL ASSETS SOLD (AUTO/TRUCK/MACH.)	211	308	157
31A	CAPITAL ASSETS SOLD (BLDGS. & IMPROVEMENTS)	1,377	6	--
31B	CAPITAL ASSETS SOLD (LAND)	1,285	6,154	75
32	GAS TAX REFUND	111	129	239
33	INCOME TAX REFUND	1,605	504	2,260
34	CUSTOM WORK ENTERPRISE INCOME	--	--	--
35	PATRONAGE REFUNDS	2,155	3,009	2,670
36	MISCELLANEOUS FARM INCOME	1,127	1,264	971
37	TOTAL FARM SALES	$163,340	$251,985	$152,137
38	INCREASE IN FARM CAPITAL	$ 7,668	35,111	$ 9,995
39	FAMILY LIVING FROM THE FARM	730	1,243	392
40	TOTAL FARM RECEIPTS (37)+(38)+(39)	$171,738	$288,739	$162,524
41	ADJUSTED TOTAL FARM SALES (37)-(31)	160,457	245,517	151,904
42	TOTAL CASH FARM OPERATING EXPENSE	112,444	134,526	144,489
43	NET CASH OPERATING INCOME	$ 48,013	$110,992	$ 7,415

SEE PAGE 14 FOR EXPLANATORY NOTE FOR THIS TABLE.

TABLE 6B. OPERATOR'S SHARE OF TOTAL FARM EXPENSES - 1981 - S.E.

	ITEMS	Average of 63 Farms	13 Most Profitable Farms	13 Least Profitable Farms
1	PURCHASE OF LIVESTOCK			
2	DAIRY COWS	$ 283	$ 438	$ 868
3	OTHER DAIRY CATTLE	734	665	2,292
4	BEEF BREEDING CATTLE	45	--	--
5	BEEF FEEDER CATTLE	4,455	1,949	8,592
6	HOGS COMPLETE	1,291	312	2,974
7	HOGS FINISHING	1,482	2,386	--
8	HOGS PRODUCING WEANING PIGS	21	--	57
9	SHEEP, FARM FLOCK	1	--	--
10	SHEEP, FEEDER LAMBS	--	--	--
11	CHICKENS	--	--	--
12	TURKEYS	--	--	--
13	OTHER PRODUCTIVE LIVESTOCK	--	--	--
14	MISCELLANEOUS LIVESTOCK EXPENSE	5,853	10,272	4,080
15	FEED BOUGHT	21,532	23,315	25,769
16	FERTILIZER	9,911	12,694	12,808
17	CHEMICALS	5,932	6,541	7,474
18	OTHER CROP EXPENSE	7,640	8,108	10,426
19	IRRIGATION OPERATION COST	43	--	--
20	CUSTOM WORK OPERATOR COSTS, INCLUDING LABOR	--	--	--
21	CUSTOM WORK HIRED	5,183	5,939	7,453
22	REPAIR & UPKEEP OF LIVESTOCK EQUIPMENT	1,615	2,851	1,737
23	REPAIR & UPKEEP OF FARM REAL ESTATE	1,784	2,960	1,655
24	GAS, OIL, GREASE BOUGHT (FARM SHARE)	6,516	8,785	6,806
25	REPAIR & OPER. - MACH., TRACTOR, TRUCK, AUTO (F.S.)	5,495	7,219	5,552
26	REPAIR & UPKEEP OF IRRIGATION EQUIPMENT	--	--	--
27	REPAIRS, CUSTOM WORK ENTERPRISE	--	--	--
28	WAGES OF HIRED LABOR	4,310	6,368	4,785
29	PERSONAL PROPERTY & REAL ESTATE TAXES	2,573	3,467	3,017
30	CASH RENT	5,282	8,871	5,234
31	GENERAL FARM EXPENSE	3,152	4,183	3,772
32	TELEPHONE EXPENSE (FARM SHARE)	283	297	283
33	ELECTRICITY EXPENSE (FARM SHARE)	2,754	4,028	2,930
34	INTEREST ACTUALLY PAID	14,271	12,876	25,925
35	TOTAL CASH OPERATING EXPENSE	$112,444	$134,526	$144,489
36	POWER, CROP & GENERAL MACHINERY BOUGHT (F.S.)	13,536	23,400	9,719
37	IRRIGATION EQUIPMENT BOUGHT	--	--	--
38	CUSTOM WORK ENTERPRISE EQUIPMENT BOUGHT	--	--	--
39	LIVESTOCK EQUIPMENT BOUGHT	3,886	7,126	4,171
40	NEW REAL ESTATE & IMPROVEMENTS	8,513	32,079	27,151
41	TOTAL FARM PURCHASES (35) THRU (40)	$145,260	$197,131	$185,530
42	DECREASE IN FARM CAPITAL	--	--	--
43	INTEREST ON FARM CAPITAL (EQUITY)	9,628	20,512	4
44	UNPAID FAMILY LABOR	784	--	1,294
45	BOARD FURNISHED HIRED LABOR	301	756	423
46	TOTAL FARM EXPENSE (41) THRU (45)	$155,973	$218,399	$187,251
47	RETURN TO OPERATOR LABOR & MGMT. (O.S.) (6A/40)-(46)	$ 15,765	$ 70,340	$(-20,672)
48	RETURN TO CAPITAL & FAMILY LABOR (47)+(44)+(43)	$ 26,177	$ 90,852	$(-21,970)

SEE PAGE 14 FOR EXPLANATORY NOTE FOR THIS TABLE. F.S. = Farm Share; O.S. = Operators Share.

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 7% 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 change in 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 (e.g., 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.

TABLE 7. SUPPLEMENTARY INFORMATION USED IN ENTERPRISE ANALYSIS - 1981 - S.E.

A. Number of Work Units for Crop and Livestock Enterprises[a/]

Livestock Enterprise	Work Units	Crop Enterprise	Work Units Per Acre
Hogs, Farrow-to-Finish	.12/cwt.	Oats, Spring Wheat	.30
Hogs, Mixed Systems	.12/cwt.	Corn for Grain	.55
Dairy Cows	7.00/cow	Soybeans	.45
Other Dairy Cattle Commercial Herd Repl. & Dairy Feeder Cattle	1.20/head	Alfalfa Hay, Corn Silage	.60
		Oats Silage	.40
Other Dairy Cattle	1.20/head	Non-Tillable Prairie Pasture	.01
Beef Breeding Cows	1.50/head		
Beef Feeder Cattle	.12/cwt.		

B. Average Prices Used in Analysis

Product	Feed	Harvest	Beginning Inventory	Ending Inventory
Oats/bu.	$ 1.80	$ 1.80	$ 1.70	$ 1.70
Wheat/bu.	4.00	3.75	4.00	3.75
Corn for Grain/bu.	2.70	2.20	3.00	2.10
Soybeans/bu.	--	5.90	7.20	5.90
Alfalfa Hay/ton	80.00	80.00	70.00	80.00
All Other Hay/ton	70.00	70.00	60.00	70.00
Corn Silage/ton	22.00	20.00	15.00	20.00
Oats Silage/ton	20.00	20.00	13.00	20.00
Barley	2.71	2.15	2.80	2.15

Unpaid family labor $625/mo. or $3.00/hr. or $25/day.
Board for hired labor $6/day or $2.00/meal.
Second operator's labor $12,000/yr.

	Estimated Rental Rate Pasture/head/mo. till.	non-till
Cows	$10.00	$7.00
Calves	5.00	3.50
Hogs	1.25	0.88

Products Used at Home	
Straw	$50/ton
Corn Stalks	$20/ton
Milk	$1.60/gal.
Homegrown Seed	
Soybeans	$9/bu.
Oats	$3/bu.

C. Animal or Livestock Units Used in Analysis[b/]

Enterprise	Per Adult	Per Other
All Hog Enterprises	.40	.20
Dairy: Cows & Others	1.00	.50
Beef Freeding Cattle	.80	.30
Beef Feeder Cattle	1.00	1.00
Sheep, Farm Flock	.143	.071

[a/] A work unit represents the average accomplishment of an average worker in one ten-hour day. It is used to measure size of business and to allocate overhead costs to crops and livestock enterprises.

[b/] An animal unit is based on the amount of T.D.N. required to support each kind of livestock with the dairy cow as the basis for comparison. It is used to measure intensity of livestock production and to measure size of business.

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.

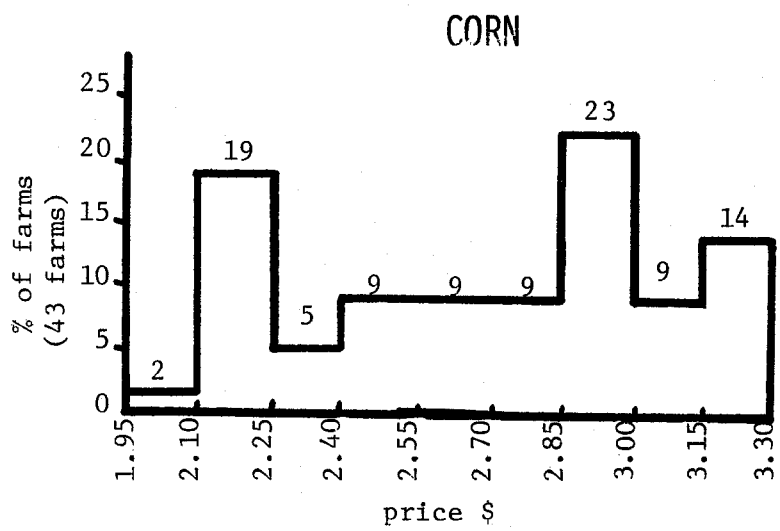
1. Labor Earnings - A measure of the relative financial return for the operator's labor taking into account all income and expense, cash and non-cash, including a charge for the use of farm capital. This is based on the whole farm business and is found in Table 2B and Table 3.
2. Crop Yield Index - A 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.

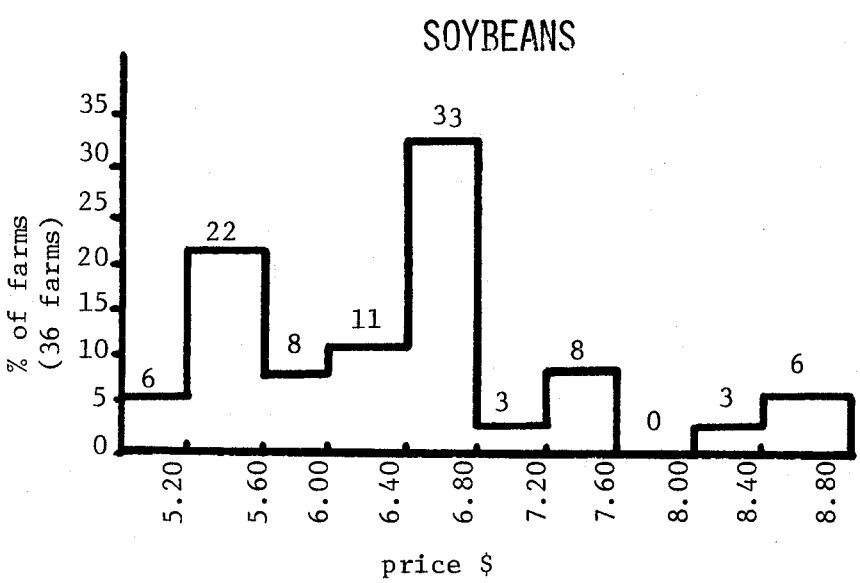
Other items listed on Table 8 are related to the above measures and serve to further define and describe the efficiency level of a farm business. Note should be taken that items listed in Table 8 and the Thermometer Chart are to be considered in light of the individual farm and farm operator. Although 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 interrelationship of factors varies from farm to farm.

AVERAGE PRICE RECEIVED FOR CROPS SOLD

This year, for the first time in the present system of analysis, the computerized crop enterprise analyses included information of the total quantity sold and average price received for all crops that were sold. Each individual member's crop enterprise print-outs include such information in lines 32 and 33. The Association average, high, and low tables contained in this report include the averages for the same items.

It has been recognized for some time that the measures of farm organization and efficiency shown in Table 8 no longer adequately explain variations in labor and management earnings on specialized crop farms or farms on which the major source of income is from crops alone. Therefore, this attempt to improve the farm business analysis should enhance our research in farm accounting which is aimed at how farmers manage the marketing of their crops. Information on this page deals with average price received for all corn, soybeans, and oats sold during the calendar year 1981. The average price received by all farmers is shown between the dotted lines in the center of the thermometer charts. The bar graphs show the percent of all farmers selling a particular crop whose price fell within the price intervals shown for each graph.





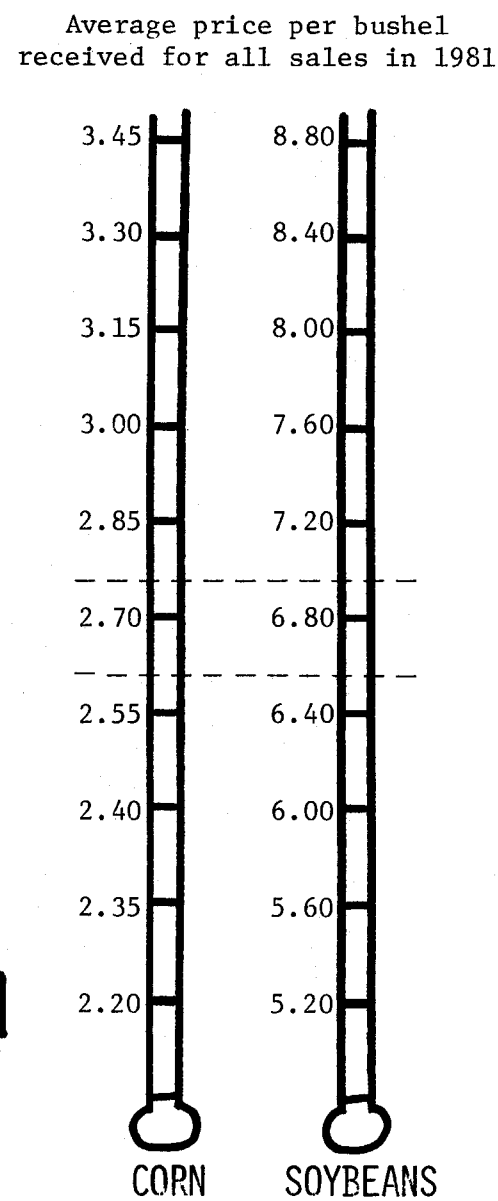


TABLE 8. MEASURES OF FARM ORGANIZATION AND EFFICIENCY - 1981 - S.E.

	ITEMS	Average of 63 Farms	13 Most Profitable Farms	13 Least Profitable Farms
1	RETURN TO OPERATORS LABOR & MANAGEMENT	$ 10,062	$ 61,041	$(-38,215)
2	CROP YIELD INDEX	100.0	106.5	94.0
3	PERCENT TILLABLE LAND IN HIGH RETURN CROPS	84.2	85.8	92.3
4	GROSS RETURN PER TILL. ACRE (EXCL. PASTURE)	$ 279.19	$ 293.69	$ 282.09
5	RET. PER $100 FEED FED PROD. LVSTOCK INDEX	100.0	105.4	84.2
6*	LIVESTOCK UNITS PER 100 ACRES	41.01	45.84	24.10
7	SIZE OF BUSINESS - WORK UNITS	557.74	858.68	264.27
8	WORK UNITS PER WORKER	272.07	265.85	255.09
9	PWR., MACH., EQUIP., BLDG. EXP./WORKER UNIT	$ 81.03	$ 80.39	$ 103.53
10	FARM CAPITAL INVESTMENT PER WORKER	$ 222,245	$ 190,572	$ 300,801
11	INDEX OF RETURN PER $100 FEED FED			
12	6100 BEEF BREEDING FARM, WHOLE HERD, COM.	100.0	112.0	86.1
13	6140 BEEF FEEDERS, FEEDLOT	100.0	97.5	42.0
14	6240 CHICKENS, LAYING FLOCK, COMMERCIAL	100.0	--	--
15	6290 DAIRY COWS, COMMERCIAL, GENERAL	100.0	104.3	79.5
16	6300 DAIRY COWS, PUREBRED, GENERAL	100.0	100.0	--
17	6310 OTHER DAIRY, COMMERCIAL, REPLACEMENTS	100.0	84.3	94.7
18	6318 OTHER DAIRY, REPLACEMENTS & FEEDER STOCK	100.0	146.1	--
19	6470 HOGS, FARROW-TO-FINISH, GENERAL	100.0	108.1	--
20	6490 HOGS, FINISHING	100.0	108.3	94.5
21	6510 HOGS, WEANING PIG PRODUCTION	100.0	--	75.5
22	6530 HOGS, MIXED SYSTEMS	100.0	108.1	87.2
23	6670 SHEEP, FARM, COMMERCIAL	100.0	--	--
30	NUMBER OF ANIMAL UNITS	137.67	212.24	84.95
31	WORK UNITS			
32	CROPS	168.69	241.83	183.12
33	PRODUCTIVE LIVESTOCK	381.78	615.67	264.60
34	OTHER PRODUCTIVE WORK UNITS	7.28	1.18	16.54
35	EXPENSES PER WORK UNIT			
36	TRACTOR & CROP MACHINERY EXPENSE	$ 38.09	$ 38.87	$ 45.24
37	FARM SHARE OF AUTO & TRUCK EXPENSE	$ 10.85	$ 9.84	$ 13.18
38	FARM SHARE OF ELECTRIC EXPENSE	$ 4.95	$ 4.53	$ 6.14
39	LIVESTOCK EQUIPMENT EXPENSE	$ 9.44	$ 10.14	$ 14.58
40	BUILDING, FENCE & TILING EXPENSE	$ 17.69	$ 17.01	$ 24.39
40A	OTHER EXPENSE PER WORK UNIT (INCL. CUSTOM ENT.)	$ --	$ --	$ --
40B	GENERAL FARM TELE/OTHER UTIL., EXCEPT ELECT.	$ 6.18	$ 5.13	$ 7.89
40C	HIRED LABOR	$ 7.73	$ 10.61	$ 10.70
41**	TRACTOR & CROP MACHINERY EXP. PER CROP ACRE	$ 64.33	$ 70.57	$ 60.03
42	FARM PWR. & MACH. COST ALLOC. TO LIVESTOCK	$ 3,975.73	$ 6,730.27	$ 2,311.12
43	BLDG, FENCE & TILING COST ALLOC. TO CROPS	$ 2,026.29	$ 2,848.77	$ 5,392.30

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

** ACRES INCLUDE ALL TILLABLE LAND, PLUS ACRES IN NON-TILLABLE 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 farms included in this summary are located between the dotted lines across the center of the chart.

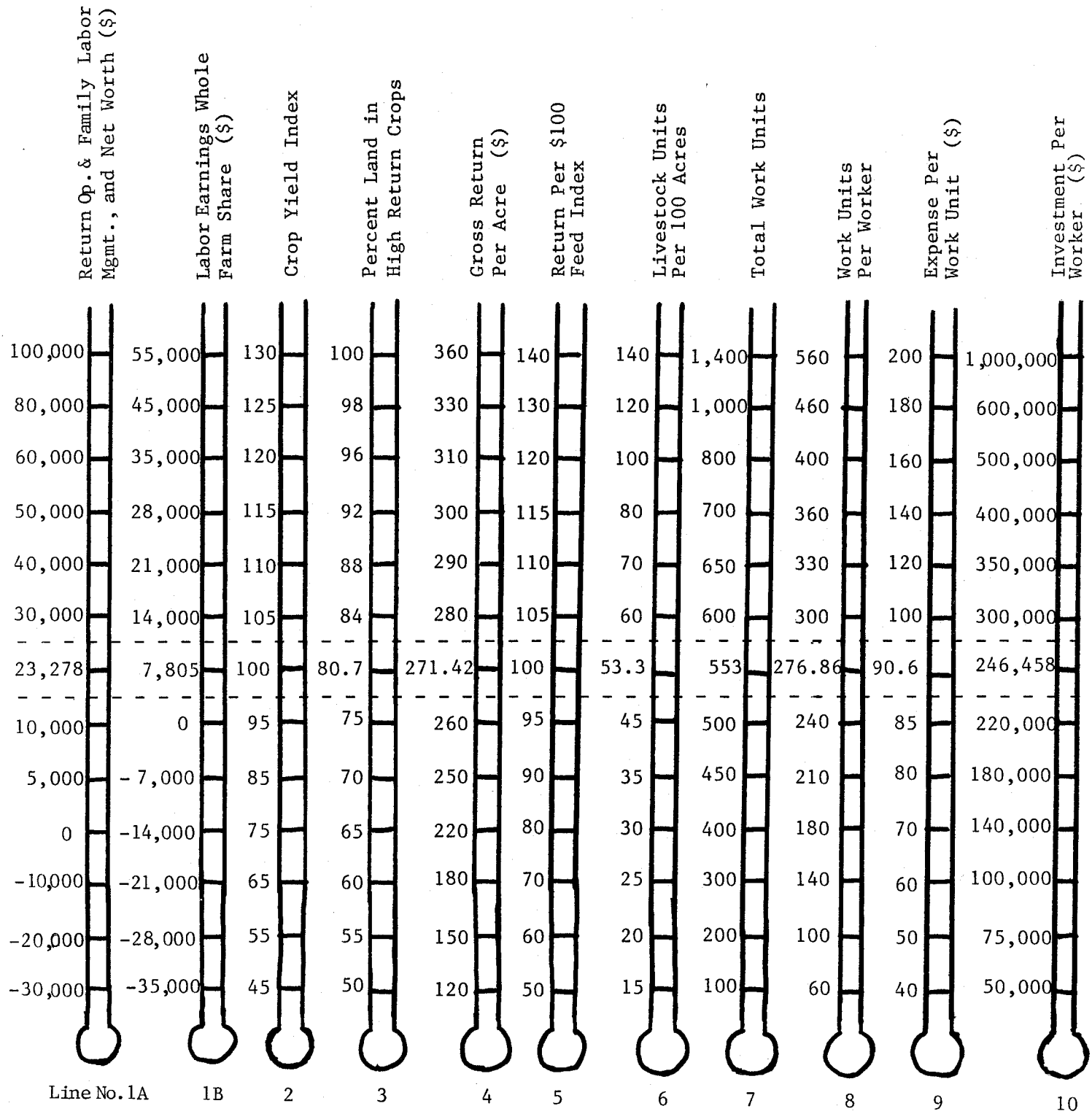


TABLE 9. CROP ACRES, YIELDS, RETURNS & SUPPLEMENTARY MANAGEMENT INFORMATION - 1981 - S.E.

CROP	Average of 63 Farms	Most Profitable 13 Farms	Least Profitable 13 Farms
	acres	acres	acres
SMALL GRAIN & CANNING PEAS	19.1	21.0	6.2
ROW CROPS	238.8	342.6	298.1
LEGUMES, INCLUDING SEED	46.0	71.4	34.6
OTHER HAY	.6	--	.7
SILAGE & FODDER	16.9	26.9	7.7
TILLABLE PASTURE	2.5	.8	--
GRASS CROPS	--	--	--
FALLOW & IDLE LAND	3.4	1.4-	.9
TOTAL TILLABLE LAND	327.3	461.3	348.2
NON-TILLABLE HAY/PASTURE	8.3	1.8	4.2
WILD HAY NOT HARVESTED (NON-TILLABLE)	2.0	--	.2
PASTURE NOT HARVESTED	8.4	1.2	13.1
TIMBER NOT HARVESTED	15.4	12.2	11.2
ROADS AND WASTE	11.4	16.2	16.9
FARMSTEAD	9.3	5.3	12.4
TOTAL LAND NOT HARVESTED	$ 46.5	$ 34.9	$ 53.8
TOTAL NON-TILLABLE LAND	$ 54.8	$ 36.7	$ 58.0
TOTAL LAND IN FARM OR RANCH	$382.1	$498.0	$406.2
SUPPLEMENTARY MANAGEMENT INFORMATION			
PERCENT LAND TILLABLE	85.7	92.6	85.7
PERCENT LAND IN HIGH RETURN CROPS	84.2	85.8	92.3
FERTILIZER COST PER ACRE	$ 34.09	$ 31.24	$ 43.59
CROP CHEMICALS PER ACRE	$ 18.15	$ 18.08	$ 21.17
SEED & OTHER COSTS PER ACRE	$ 24.51	$ 22.55	$ 30.05
GAS, OIL & GREASE BOUGHT PER ACRE	$ 15.46	$ 16.37	$ 14.96

CROP	Crop Rank	No. Farms Growing	Acres Per Farm	Total Acres	Average Yield Per Acre	Return Over Cash Costs Per Acre a/
Oats	D	32	27.3	874	71.2 bu	$113.54
Spring Wheat	C	8	20.9	167	44.9 bu	119.28
Corn for Grain	A	65	175.1	11,382	126.9 bu	140.27
Soybeans	A	38	106	4,028	36.7 bu	159.62
Canning Peas	C	6	18.3	110	$183.61	154.67
Alfalfa Hay	B	49	58.9	2,886	4.6 T	290.67
Oat Silage	C	7	40.4	283	5.9 T	74.41
Corn Silage	A	31	25.2	781	19.3 T	261.97
Legume Pasture	D	9	17.2	155	$61.45	46.65
Non-Tillable Prairie Pastures	D	11	47.8	526	$27.24	24.53

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 - 1981 - S.E.

	ITEMS	Average of 32 Farms	Ret. Over Direct Costs Highest 11 Farms	Ret. Over Direct Costs Lowest 11 Farms
1	ACRES	27.3	36.8	23.3
2	YIELD	71.2	79.5	59.1
3	VALUE PER BUSHEL	$ 1.80	$ 1.80	$ 1.80
4	CROP PRODUCT RETURN PER ACRE	128.24	143.13	106.44
5	OTHER CROP INCOME PER ACRE	27.66	37.23	19.79
6	TOTAL CROP RETURN PER ACRE	$155.90	$180.36	$126.23
7	DIRECT COSTS PER ACRE			
8	FERTILIZER	$ 8.13	$ .24	$ 26.65
9	CHEMICALS	.04	.08	--
10	SEED	10.07	9.81	10.86
10A	CROP DRYING	--	--	--
10B	OTHER EXPENSE	1.32	1.98	.56
11	SPECIAL HIRED LABOR	--	--	--
12	CUSTOM WORK HIRED	5.46	3.37	7.64
13	IRRIGATION OPERATION	--	--	--
14	TOTAL DIRECT COSTS PER ACRE	$ 25.02	$ 15.48	$ 45.71
15	RETURN OVER DIRECT COSTS PER ACRE	$130.88	$164.88	$ 80.52
16	ALLOCATED COSTS PER ACRE			
17	FARM POWER & MACHINERY - OWNERSHIP	$ 16.16	$ 15.66	$ 16.57
18	FARM POWER & MACHINERY - OPERATION	17.34	17.69	15.18
19	IRRIGATION EQUIPMENT - OWNERSHIP	--	--	--
20	LAND COSTS	70.00	69.09	70.45
21	MISCELLANEOUS COSTS	--	--	--
22	INTEREST ON MACH. & EQUIP. INVESTMENT	4.22	4.16	4.10
23	TOTAL ALLOCATED COSTS PER ACRE	$107.22	$106.60	$106.30
24	RETURN OVER ALL LISTED COSTS PER ACRE	$ 23.16	$ 58.28	$(-25.78)
25	SUPPLEMENTARY MANAGEMENT INFORMATION			
26	WORK UNITS PER ACRE	.30	.30	.30
27	POWER COST ALLOCATION FACTOR	.98	.95	1.00
28	TOTAL LISTED COSTS PER BUSHEL	$ 1.86	$ 1.54	$ 2.57
29	RETURN OVER LISTED COSTS PER BUSHEL	$ .33	$ .73	$ (-.44)
30*	BREAK-EVEN YIELD, BUSHELS	73.74	67.82	84.45
30A	EST. TOTAL MACHINE COSTS PER ACRE	$ 41.36	$ 39.76	$ 40.95
31	TOTAL LISTED COSTS PER ACRE	$132.74	$122.08	$152.01
32	AVERAGE PRICE RECEIVED PER BUSHEL	$ 1.69	$ 1.60	$ 1.76
33	BUSHELS SOLD (OPERATORS SHARE)	456.0	531.1	359.4

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

TABLE 10-0195 - CROP DATA FOR SPRING WHEAT - 1981 - S.E.

	ITEMS	Average of 8 Farms
1	ACRES	20.9
2	YIELD PER ACRE, BUSHELS	44.9
3	VALUE PER BUSHEL	$ 3.75
4	CROP PRODUCT RETURN PER ACRE	168.33
5	OTHER CROP INCOME PER ACRE	17.51
6	TOTAL CROP RETURN PER ACRE	$185.84
7	DIRECT COSTS PER ACRE	
8	FERTILIZER	$ 19.47
9	CHEMICALS	.67
10	SEED	13.30
10A	CROP DRYING	--
10B	OTHER EXPENSE	.86
11	SPECIAL HIRED LABOR	--
12	CUSTOM WORK HIRED	14.88
13	IRRIGATION OPERATION	--
14	TOTAL DIRECT COSTS PER ACRE	$ 49.18
15	RETURN OVER DIRECT COSTS PER ACRE	$136.66
16	ALLOCATED COSTS PER ACRE	
17	FARM POWER & MACHINERY - OWNERSHIP	$ 16.21
18	FARM POWER & MACHINERY - OPERATION	17.38
19	IRRIGATION EQUIPMENT - OWNERSHIP	--
20	LAND COSTS	69.38
21	MISCELLANEOUS COSTS	--
22	INTEREST ON MACH. & EQUIP. INVESTMENT	4.24
23	TOTAL ALLOCATED COSTS PER ACRE	$107.21
24	RETURN OVER ALL LISTED COSTS PER ACRE	$ 29.45
25	SUPPLEMENTARY MANAGEMENT INFORMATION	
26	WORK UNITS PER ACRE	.30
27	POWER COST ALLOCATION FACTOR	1.00
28	TOTAL LISTED COSTS PER BUSHEL	$ 3.49
29	RETURN OVER LISTED COSTS PER BUSHEL	$ .66
30*	BREAK-EVEN YIELD, BUSHELS	41.70
30A	EST. TOTAL MACHINE COSTS PER ACRE	$ 47.75
31	TOTAL LISTED COSTS PER ACRE	$156.39
32	AVERAGE PRICE RECEIVED PER BUSHEL	$ 3.75
33	BUSHELS SOLD (OPERATORS SHARE)	788.3

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

TABLE 10-0275 - CROP DATA FOR CORN FOR GRAIN - 1981 - S.E.

	ITEMS	Average of 65 Farms	Ret. Over Direct Costs Highest 13 Farms	Ret. Over Direct Costs Lowest 13 Farms
1	ACRES	175.1	161.8	171.3
2	YIELD PER ACRE, BUSHELS	126.9	145.4	107.0
3	VALUE PER BUSHEL	$ 2.20	$ 2.20	$ 2.19
4	CROP PRODUCT RETURN PER ACRE	279.15	319.79	234.23
5	OTHER CROP INCOME PER ACRE	5.28	1.00	25.34
6	TOTAL CROP RETURN PER ACRE	$284.43	$320.79	$259.57
7	DIRECT COSTS PER ACRE			
8	FERTILIZER	$ 49.91	$ 37.40	$ 65.12
9	CHEMICALS	22.75	22.11	27.21
10	SEED	16.61	16.49	16.18
10A	CROP DRYING	11.88	8.16	13.27
10B	OTHER EXPENSE	3.68	2.62	9.33
11	SPECIAL HIRED LABOR	--	--	--
12	CUSTOM WORK HIRED	9.37	6.51	20.87
13	IRRIGATION OPERATION	--	--	--
14	TOTAL DIRECT COSTS PER ACRE	$114.20	$ 93.29	$151.98
15	RETURN OVER DIRECT COSTS PER ACRE	$170.23	$227.50	$107.59
16	ALLOCATED COSTS PER ACRE			
17	FARM POWER & MACHINERY - OWNERSHIP	$ 30.18	$ 33.45	$ 22.57
18	FARM POWER & MACHINERY - OPERATION	29.96	29.79	29.36
19	IRRIGATION EQUIPMENT - OWNERSHIP	.38	--	1.95
20	LAND COSTS	73.77	76.92	73.08
21	MISCELLANEOUS COSTS	.56	--	.68
22	INTEREST ON MACH. & EQUIP. INVESTMENT	7.98	8.57	7.43
23	TOTAL ALLOCATED COSTS PER ACRE	$142.83	$148.73	$135.07
24	RETURN OVER ALL LISTED COSTS PER ACRE	$ 27.40	$ 78.77	$(-27.48)
25	SUPPLEMENTARY MANAGEMENT INFORMATION			
26	WORK UNITS PER ACRE	.55	.55	.55
27	POWER COST ALLOCATION FACTOR	1.00	1.00	1.00
28	TOTAL LISTED COSTS PER BUSHEL	$ 2.03	$ 1.66	$ 2.68
29	RETURN OVER LISTED COSTS PER BUSHEL	$ .22	$ .54	$ (-.26)
30*	BREAK-EVEN YIELD, BUSHELS	116.83	110.01	131.07
30A	EST. TOTAL MACHINE COSTS PER ACRE	$ 74.37	$ 76.15	$ 73.28
31	TOTAL LISTED COSTS PER ACRE	$257.03	$242.02	$287.05
32	AVERAGE PRICE RECEIVED PER BUSHEL	$ 2.71	$ 2.73	$ 2.59
33	BUSHELS SOLD (OPERATORS SHARE)	7,358.7	5,317.6	7,280.7

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

TABLE 10-0335 - CROP DATA FOR SOYBEANS - 1981 - S.E.

	ITEMS	Average of 38 Farms	Ret. Over Direct Costs Highest 13 Farms	Ret. Over Direct Costs Lowest 13 Farms
1	ACRES	106.0	137.8	62.9
2	YIELD PER ACRE, BUSHELS	36.7	44.6	27.0
3	VALUE PER BUSHEL	$ 5.89	$ 5.90	$ 5.89
4	CROP PRODUCT RETURN PER ACRE	216.21	263.02	159.00
5	OTHER CROP INCOME PER ACRE	17.66	.52	--
6	TOTAL CROP RETURN PER ACRE	$233.87	$263.54	$159.00
7	DIRECT COSTS PER ACRE			
8	FERTILIZER	$ 3.48	$ 3.60	$ 2.64
9	CHEMICALS	24.49	23.90	30.51
10	SEED	12.61	9.74	13.72
10A	CROP DRYING	--	--	--
10B	OTHER EXPENSE	3.60	3.00	3.99
11	SPECIAL HIRED LABOR	.16	.37	--
12	CUSTOM WORK HIRED	5.96	2.24	12.75
13	IRRIGATION OPERATION	--	--	--
14	TOTAL DIRECT COSTS PER ACRE	$ 50.47	$ 42.85	$ 63.77
15	RETURN OVER DIRECT COSTS PER ACRE	$183.40	$220.69	$ 95.23
16	ALLOCATED COSTS PER ACRE			
17	FARM POWER & MACHINERY - OWNERSHIP	$ 23.02	$ 26.12	$ 13.06
18	FARM POWER & MACHINERY - OPERATION	23.78	25.67	20.75
19	IRRIGATION EQUIPMENT - OWNERSHIP	.53	--	--
20	LAND COSTS	73.68	77.69	70.00
21	MISCELLANEOUS	.73	--	.02
22	INTEREST ON MACH. & EQUIP. INVESTMENT	5.99	6.66	3.80
23	TOTAL ALLOCATED COSTS PER ACRE	$127.73	$136.14	$107.63
24	RETURN OVER ALL LISTED COSTS PER ACRE	$ 55.67	$ 84.55	$(-12.40)
25	SUPPLEMENTARY MANAGEMENT INFORMATION			
26	WORK UNITS PER ACRE	.45	.45	.45
27	POWER COST ALLOCATION FACTOR	1.00	1.00	1.00
28	TOTAL LISTED COSTS PER BUSHEL	$ 4.85	$ 4.01	$ 6.35
29	RETURN OVER LISTED COSTS PER BUSHEL	$ 1.52	$ 1.90	$ (-.46)
30*	BREAK-EVEN YIELD, BUSHELS	30.25	30.34	29.10
30A	EST. TOTAL MACHINER COSTS PER ACRE	$ 56.77	$ 59.94	$ 46.11
31	TOTAL LISTED COSTS PER ACRE	$178.20	$178.99	$171.40
32	AVERAGE PRICE RECEIVED PER BUSHEL	$ 6.79	$ 6.64	$ 6.75
33	BUSHELS SOLD (OPERATORS SHARE)	3,112.9	4,489.0	1,423.6

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

TABLE 10-0365 - CROP DATA FOR CANNING PEAS - 1981 - S.E.

	ITEMS	Average of 6 Farms
1	ACRES	18.3
2	YIELD	183.61
3	VALUE PER PRODUCTION UNIT	$ 1.00
4	CROP PRODUCT RETURN	183.61
5	OTHER CROP INCOME	--
6	TOTAL CROP RETURN PER ACRE	$183.61
7	DIRECT COSTS	
8	FERTILIZER	$ --
9	CHEMICALS	2.57
10	SEED	--
10A	CROP DRYING	--
10B	OTHER EXPENSE	2.34
11	SPECIAL HIRED LABOR	--
12	CUSTOM WORK HIRED	--
13	IRRIGATION OPERATION	--
14	TOTAL DIRECT COSTS	$ 4.91
15	RETURN OVER DIRECT COSTS	$178.70
16	ALLOCATED COSTS	
17	FARM POWER & MACHINERY - OWNERSHIP	$ 33.99
18	FARM POWER & MACHINERY - OPERATION	24.03
19	IRRIGATION EQUIPMENT OWNERSHIP	--
20	LAND COSTS	63.00
21	MISCELLANEOUS COSTS	--
22	*INTEREST ON MACHINERY & EQUIPMENT INVESTMENT	8.39
23	TOTAL ALLOCATED COSTS	$129.41
24	RETURN OVER ALL LISTED COSTS	$ 49.24
25	SUPPLEMENTARY MANAGEMENT INFORMATION	
26	WORK UNITS ASSIGNED PER ACRE	.40
27	POWER COSTS ALLOCATION FACTOR	.83
28	TOTAL LISTED COST PER UNIT OF PRODUCTION	$ .74
29	RETURN OVER LISTED COSTS PER UNIT	$ .37
30	BREAKEVEN YIELD, DOLLARS PER ACRE	$161.83
30A	ESTIMATED TOTAL MACHINE COSTS/ACRE	$ 66.41
31	TOTAL LISTED COSTS PER ACRE	$134.32

* DOES NOT INCLUDE INTEREST ON INVESTMENT IN IRRIGATION EQUIPMENT.

TABLE 10-0400 - CROP DATA FOR ALFALFA HAY - 1981 - S.E.

	ITEMS	Average of 49 Farms	Ret. Over Direct Costs Highest 16 Farms	Ret. Over Direct Costs Lowest 16 Farms
1	ACRES	58.9	87.0	34.3
2	YIELD PER ACRE, TONS	4.6	5.6	2.7
3	VALUE PER TON	$ 79.80	$ 80.00	$ 79.38
4	CROP PRODUCT RETURN PER ACRE	365.81	450.57	215.22
5	OTHER CROP INCOME PER ACRE	.31	--	1.66
6	TOTAL CROP RETURN PER ACRE	$366.12	$450.57	$216.88
7	DIRECT COSTS PER ACRE			
8	FERTILIZER	$ 22.36	$ 20.02	$ 37.76
9	CHEMICALS	.19	.18	.50
10	SEED	11.58	11.28	12.24
10A	CROP DRYING	--	--	--
10B	OTHER EXPENSE	3.48	3.06	4.26
11	SPECIAL HIRED LABOR	--	--	--
12	CUSTOM WORK HIRED	3.77	6.20	.96
13	IRRIGATION OPERATION	--	--	--
14	TOTAL DIRECT COSTS PER ACRE	$ 41.38	$ 40.74	$ 55.72
15	RETURN OVER DIRECT COSTS PER ACRE	$324.74	$409.83	$161.16
16	ALLOCATED COSTS PER ACRE			
17	FARM POWER & MACHINERY - OWNERSHIP	$ 35.97	$ 33.51	$ 36.99
18	FARM POWER & MACHINERY - OPERATION	34.07	33.28	32.40
19	IRRIGATION EQUIPMENT - OWNERSHIP	--	--	--
20	LAND COSTS	69.39	71.88	63.13
21	MISCELLANEOUS COSTS	--	--	--
22	INTEREST ON MACH. & EQUIP. INVESTMENT	9.30	8.90	9.60
23	TOTAL ALLOCATED COSTS PER ACRE	$148.73	$147.57	$142.12
24	RETURN OVER ALL LISTED COSTS PER ACRE	$176.01	$262.26	$ 19.04
25	SUPPLEMENTARY MANAGEMENT INFORMATION			
26	WORK UNITS PER ACRE	.60	.60	.60
27	POWER COST ALLOCATION FACTOR	.99	1.00	.96
28	TOTAL LISTED COSTS PER TON	$ 41.47	$ 33.44	$ 72.96
29	RETURN OVER LISTED COSTS PER TON	$ 38.39	$ 46.56	$ 7.03
30*	BREAK-EVEN YIELD, TONS	2.38	2.35	2.49
30A	EST. TOTAL MACHINE COSTS PER ACRE	$ 81.85	$ 79.83	$ 79.63
31	TOTAL LISTED COSTS PER ACRE	$190.11	$188.31	$197.84

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

TABLE 10-0545 - CROP DATA FOR GRAIN (OATS) SILAGE - 1981 - S.E.

	ITEMS	Average of 7 Farms
1	ACRES	40.4
2	YIELD PER ACRE, TONS	5.9
3	VALUE PER TON	$ 20.00
4	CROP PRODUCT RETURN PER ACRE	117.82
5	OTHER CROP INCOME PER ACRE	
6	TOTAL CROP RETURN PER ACRE	$117.82
7	DIRECT COSTS PER ACRE	
8	FERTILIZER	$ 12.08
9	CHEMICALS	--
10	SEED	9.90
10A	CROP DRYING	--
10B	OTHER EXPENSE	.27
11	SPECIAL HIRED LABOR	--
12	CUSTOM WORK HIRED	--
13	IRRIGATION OPERATION	--
14	TOTAL DIRECT COSTS PER ACRE	$ 22.25
15	RETURN OVER DIRECT COSTS PER ACRE	$ 95.57
16	ALLOCATED COSTS PER ACRE	
17	FARM POWER & MACHINERY - OWNERSHIP	$ 28.25
18	FARM POWER & MACHINERY - OPERATION	21.16
19	IRRIGATION EQUIPMENT - OWNERSHIP	--
20	LAND COSTS	66.43
21	MISCELLANEOUS COSTS	--
22	INTEREST ON MACH. & EQUIP. INVESTMENT	6.71
23	TOTAL ALLOCATED COSTS PER ACRE	$122.55
24	RETURN OVER ALL LISTED COSTS PER ACRE	$(-26.98)
25	SUPPLEMENTARY MANAGEMENT INFORMATION	
26	WORK UNITS PER ACRE	.40
27	POWER COST ALLOCATION FACTOR	.94
28	TOTAL LISTED COSTS PER TON	$ 24.58
29	RETURN OVER LISTED COSTS PER TON	$(-4.58)
30*	BREAK-EVEN YIELD, TONS	7.24
30A	EST. TOTAL MACHINE COSTS PER ACRE	$ 56.12
31	TOTAL LISTED COSTS PER ACRE	$144.80

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

TABLE 10-0550 - CROP DATA FOR CORN SILAGE - 1981 - S.E.

	ITEMS	Average of 31 Farms	Ret. Over Direct Costs Highest 10 Farms	Ret. Over Direct Costs Lowest 10 Farms
1	ACRES	25.2	21.8	30.0
2	YIELD PER ACRE, TONS	19.3	23.7	15.9
3	VALUE PER TON	$ 20.00	$ 20.00	$ 20.00
4	CROP PRODUCT RETURN PER ACRE	386.51	474.31	318.67
5	OTHER CROP INCOME PER ACRE	--	--	--
6	TOTAL CROP RETURN PER ACRE	$386.51	$474.31	$318.67
7	DIRECT COSTS PER ACRE			
8	FERTILIZER	$ 44.13	$ 44.36	$ 46.73
9	CHEMICALS	21.23	19.13	22.47
10	SEED	17.74	15.69	15.63
10A	CROP DRYING	--	--	--
10B	OTHER EXPENSE	2.02	2.16	2.60
11	SPECIAL HIRED LABOR	--	--	--
12	CUSTOM WORK HIRED	3.85	--	7.00
13	IRRIGATION OPERATION	--	--	--
14	TOTAL DIRECT COSTS PER ACRE	$ 88.97	$ 81.34	$ 94.43
15	RETURN OVER DIRECT COSTS PER ACRE	$297.54	$392.97	$224.24
16	ALLOCATED COSTS PER ACRE			
17	FARM POWER & MACHINERY - OWNERSHIP	$ 33.29	$ 39.48	$ 23.73
18	FARM POWER & MACHINERY - OPERATION	35.57	39.74	35.26
19	IRRIGATION EQUIPMENT - OWNERSHIP	--	--	--
20	LAND COSTS	71.77	71.00	71.50
21	MISCELLANEOUS COSTS	--	--	--
22	INTEREST ON MACH. & EQUIP. INVESTMENT	8.43	9.08	6.97
23	TOTAL ALLOCATED COSTS PER ACRE	$149.06	$159.30	$137.46
24	RETURN OVER ALL LISTED COSTS PER ACRE	$148.48	$233.67	$ 86.78
25	SUPPLEMENTARY MANAGEMENT INFORMATION			
26	WORK UNITS PER ACRE	.60	.60	.60
27	POWER COST ALLOCATION FACTOR	.99	1.00	.98
28	TOTAL LISTED COSTS PER TON	$ 12.32	$ 10.15	$ 14.55
29	RETURN OVER LISTED COSTS PER TON	$ 7.68	$ 9.85	$ 5.45
30*	BREAK-EVEN YIELD, TONS	11.90	12.03	11.59
30A	EST. TOTAL MACHINE COSTS PER ACRE	$ 79.86	$ 88.30	$ 70.63
31	TOTAL LISTED COSTS PER ACRE	$238.03	$240.64	$231.89

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

TABLE 10-0570 - CROP DATA FOR LEGUME PASTURES - 1981 - S.E.

	ITEMS	Average of 9 Farms
1	ACRES	17.2
2	YIELD	61.45
3	VALUE PER PRODUCTION UNIT	$ 1.00
4	CROP PRODUCT RETURN	61.45
5	OTHER CROP INCOME	--
6	TOTAL CROP RETURN PER ACRE	$ 61.45
7	DIRECT COSTS	
8	FERTILIZER	$ 6.40
9	CHEMICALS	--
10	SEED	4.30
10A	CROP DRYING	--
10B	OTHER EXPENSE	.93
11	SPECIAL HIRED LABOR	--
12	CUSTOM WORK HIRED	--
13	IRRIGATION OPERATION	--
14	TOTAL DIRECT COSTS	$ 11.63
15	RETURN OVER DIRECT COSTS	$ 49.82
16	ALLOCATED COSTS	
17	FARM POWER & MACHINERY - OWNERSHIP	$ 2.27
18	FARM POWER & MACHINERY - OPERATION	3.17
19	IRRIGATION EQUIPMENT OWNERSHIP	--
20	LAND COSTS	54.44
21	MISCELLANEOUS COSTS	--
22	*INTEREST ON MACHINERY & EQUIPMENT INVESTMENT	.65
23	TOTAL ALLOCATED COSTS	$ 60.53
24	RETURN OVER ALL LISTED COSTS	$(-10.71)
25	SUPPLEMENTARY MANAGEMENT INFORMATION	
26	WORK UNITS PER ACRE	.05
27	POWER COSTS ALLOCATION FACTOR	1.09
28	TOTAL LISTED COST PER ACRE	$ 1.17
29	RETURN OVER LISTED COSTS PER ACRE	$ (-.17)
30	BREAKEVEN YIELD, DOLLARS PER ACRE	$ 72.16
30A	ESTIMATED TOTAL MACHINE COSTS/ACRE	$ 6.09
31	TOTAL LISTED COSTS PER ACRE	$ 72.16

* DOES NOT INCLUDE INTEREST ON INVESTMENT IN IRRIGATION EQUIPMENT.

TABLE 10-0585 - CROP DATA FOR NON-TILLABLE PRAIRIE PASTURES - 1981 - S.E.

	ITEMS	Average of 11 Farms	Ret. Over Direct Costs Highest 5 Farms	Ret. Over Direct Costs Lowest 5 Farms
1	ACRES	47.8	41.7	52.4
2	YIELD PER ACRE, DOLLARS	27.24	46.52	11.91
3	VALUE PER PRODUCTION UNIT	$ 1.00	$ 1.00	$ 1.00
4	CROP PRODUCT RETURN PER ACRE	27.24	46.52	11.91
5	OTHER CROP INCOME PER ACRE	--	--	--
6	TOTAL CROP RETURN PER ACRE	$ 27.24	$ 46.52	$ 11.91
7	DIRECT COSTS PER ACRE			
8	FERTILIZER	$ 2.06	$ 3.26	$ 1.48
9	CHEMICALS	--	--	--
10	SEED	--	--	--
10A	CROP DRYING	--	--	--
10B	OTHER EXPENSE	--	--	--
11	SPECIAL HIRED LABOR	--	--	--
12	CUSTOM WORK HIRED	--	--	--
13	IRRIGATION OPERATION	--	--	--
14	TOTAL DIRECT COSTS PER ACRE	$ 2.15	$ 3.48	$ 1.48
15	RETURN OVER DIRECT COSTS PER ACRE	$ 25.09	$ 43.04	$ 10.43
16	ALLOCATED COSTS PER ACRE			
17	FARM POWER & MACHINERY - OWNERSHIP	$ .56	$ .43	$ .66
18	FARM POWER & MACHINERY - OPERATION	.56	.52	.61
19	IRRIGATION EQUIPMENT - OWNERSHIP	--	--	--
20	LAND COSTS	36.36	40.00	32.00
21	MISCELLANEOUS COSTS	--	--	--
22	INTEREST ON MACH. & EQUIP. INVESTMENT	.15	.11	.19
23	TOTAL ALLOCATED COSTS PER ACRE	$ 37.63	$ 41.06	$ 33.46
24	RETURN OVER ALL LISTED COSTS PER ACRE	$(-12.54)	$ 1.98	$(-23.03)
25	SUPPLEMENTARY MANAGEMENT INFORMATION			
26	WORK UNITS PER ACRE	.01	.01	.01
27	POWER COST ALLOCATION FACTOR	.91	1.00	.80
28	TOTAL LISTED COSTS PER UNIT OF PROD.	$ 1.42	$ .96	$ 3.01
29	RETURN OVER LISTED COSTS PER UNIT	$ (-.39)	$ .04	$(-1.86)
30*	BREAK-EVEN YIELD, DOLLARS PER ACRE	$ 43.71	$ 44.54	$ 43.68
30A	EST. TOTAL MACHINE COSTS PER ACRE	$ 1.27	$ 1.06	$ 1.46
31	TOTAL LISTED COSTS PER ACRE	$ 39.78	$ 44.54	$ 34.94

* TO COVER TOTAL LISTED COSTS PER ACRE (LINE 31) 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* - 1981 - S.E.

	ITEMS	Average of 14 Farms	7 Farms Highest in Return Above Feed Cost	7 Farms Lowest in Return Above Feed Cost
1	POUNDS OF HOGS PRODUCED	287,361	314,457	228,131
		Per Cwt.	Per Cwt.	Per Cwt.
2	NET INCREASE IN VALUE OF HOGS	$ 42.91	$ 44.66	$ 40.50
3	OTHER MISCELLANEOUS HOG INCOME	--	--	--
4	TOTAL VALUE PRODUCED	$ 42.91	$ 44.66	$ 40.50
5	POUNDS OF FEED FED			
6	CORN	354.1	343.8	336.4
7	SMALL GRAIN	7.5	4.1	14.6
8	COMPLETE RATION	6.8	2.5	14.9
9	PROTEIN, SALT & MINERAL & MILK	80.5	75.4	90.0
10	TOTAL CONCENTRATES	448.9	425.8	455.9
11	FORAGES	1.7	--	4.6
12	FEED COST			
13	GRAINS	$ 17.31	$ 16.45	$ 17.02
14	COMPLETE RATION	.27	.35	.26
15	PROTEIN, SALT & MINERAL & MILK	11.23	10.64	13.00
16	FORAGES	.06	--	.16
17	PASTURE	--	--	--
18	TOTAL FEED COSTS	$ 28.87	$ 27.43	$ 30.44
19	RETURN OVER FEED COSTS	$ 14.04	$ 17.23	$ 10.06
20	OTHER DIRECT COSTS			
21	MISCELLANEOUS LIVESTOCK EXPENSE	$ .98	$ .59	$ 1.69
22	VETERINARY EXPENSE	.55	.51	.59
23	CUSTOM WORK	.54	.63	.38
24	SPECIAL HIRED LABOR	--	--	--
25	TOTAL OTHER DIRECT COSTS	$ 2.07	$ 1.73	$ 2.66
26	RETURN OVER FEED & OTHER DIRECT COSTS	$ 11.97	$ 15.50	$ 7.40
27	ALLOCATED COSTS			
28	POWER AND MACHINERY COSTS	$ 1.25	$ 1.15	$ 1.48
29	LIVESTOCK EQUIPMENT COSTS	1.54	1.93	1.48
30	BUILDINGS AND FENCES	3.30	4.23	3.12
31	TOTAL ALLOCATED COSTS	$ 6.09	$ 7.31	$ 6.08
32	RETURN OVER ALL LISTED COSTS	$ 5.88	$ 8.19	$ 1.32
33	SUPPLEMENTARY MANAGEMENT INFORMATION			
34	RETURN FOR $100 FEED FED	$148.62	$162.82	$133.05
35	PRICE RECEIVED/CWT. ALL ANIMALS	$ 43.91	$ 43.89	$ 43.43
36	PRICE RECEIVED/CWT. SOLD MKT. ONLY	$ 40.28	$ 44.75	$ 33.17
37	NUMBER OF LITTERS FARROWED	174	203	130
38	NUMBER OF PIGS BORN PER LITTER	9.3	9.2	9.6
39	NUMBER OF PIGS WEANED PER LITTER	7.1	6.9	7.4
39A	NUMBER OF PIGS PRODUCED/LITTER	6.9	6.6	7.3
40	PERCENT DEATH LOSS	16.6	18.4	15.8
41	AVERAGE WEIGHT OF ALL HOGS SOLD,LBS.	234.7	231.1	228.2
42	AVERAGE WEIGHT OF MKT. HOGS SOLD,LBS.	222.2	218.5	221.0
43	PRICE PER CWT. CONCENTRATE FED	$ 6.42	$ 6.44	$ 6.69
44	PRICE PER CWT. PROT.,SALT & MIN. FED	$ 13.96	$ 14.10	$ 14.44
45	POUNDS OF PORK PURCHASED	1,952	3,049	849
46	TOTAL LISTED COSTS/CWT. PORK PROD.	$ 37.03	$ 36.47	$ 39.18

* 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* - 1981 - S.E.

	ITEMS	Average of 5 Farms
1	AVERAGE NUMBER OF PIGS ON HAND	280.1
2	POUNDS OF HOGS PRODUCED	109,547
		Per Cwt.
3	NET INCREASE IN VALUE OF HOGS	$ 31.34
4	OTHER MISCELLANEOUS HOG INCOME	--
5	TOTAL VALUE PRODUCED	$ 31.34
6	POUNDS OF FEED FED	
7	CORN	331.2
8	SMALL GRAIN	10.1
9	COMPLETE RATION	--
10	PROTEIN, SALT & MINERAL & MILK	61.4
11	TOTAL CONCENTRATES	402.7
12	FORAGES	1.1
13	FEED COST	
14	GRAINS	$ 16.54
15	COMPLETE RATION	--
16	PROTEIN, SALT & MINERAL & MILK	8.88
17	FORAGES	.04
18	PASTURE	.17
19	TOTAL FEED COSTS	$ 25.63
20	RETURN OVER FEED COSTS	$ 5.71
21	OTHER DIRECT COSTS	
22	MISCELLANEOUS LIVESTOCK EXPENSE	$ .11
23	VETERINARY EXPENSE	.08
24	CUSTOM WORK	.75
25	SPECIAL HIRED LABOR	--
26	TOTAL OTHER DIRECT COSTS	$ .94
27	RETURN OVER FEED & OTHER DIRECT COSTS	$ 4.77
28	ALLOCATED COSTS	
29	POWER & MACHINERY COSTS	$ 1.29
30	LIVESTOCK EQUIPMENT COSTS	1.73
31	BUILDINGS & FENCES	2.38
32	TOTAL ALLOCATED COSTS	$ 5.40
33	RETURN OVER ALL LISTED COSTS	$ (-.63)
34	SUPPLEMENTARY MANAGEMENT INFORMATION	
35	RETURN FOR $100 FEED FED	$122.27
36	PRICE RECEIVED PER CWT.	$ 43.40
37	AVERAGE WEIGHT OF PIGS SOLD, LBS.	228.2
38	AVERAGE PRICE PAID PER PIG BOUGHT	$ 39.83
39	AVERAGE WEIGHT PER PIG BOUGHT, LBS.	43.4
40	NUMBER OF PIGS PURCHASED	469
41	NUMBER OF PIGS TRANSFERRED IN	126
42	AVERAGE WEIGHT OF PIGS TRANSFERRED IN, LBS.	44.4
43	POUNDS OF PORK PURCHASED	20,366
44	PERCENT DEATH LOSS	1.4
45	PRICE PER CWT. CONCENTRATE FED	$ 6.31
46	PRICE PER CWT. PROTEIN, SALT & MIN. FED	$ 14.46
47	EFFECTIVE DAILY GAIN-LBS./DAY/PIG	1.07
48	TOTAL LISTED COSTS/CWT. PORK PRODUCED	$ 31.97

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

TABLE 11C-6530 - COSTS AND RETURNS FROM HOGS, MIXED SYSTEMS* - 1981 - S.E.

	ITEMS	Average of 8 Farms
1	POUNDS OF HOGS PRODUCED	134,469
		Per Cwt.
2	NET INCREASE IN VALUE OF HOGS	$ 40.00
3	OTHER MISCELLANEOUS HOG INCOME	--
4	TOTAL VALUE PRODUCED	$ 40.00
5	POUNDS OF FEED FED	
6	CORN	311.2
7	SMALL GRAIN	14.0
8	COMPLETE RATION	9.4
9	PROTEIN, SALT & MINERAL & MILK	66.9
10	TOTAL CONCENTRATES	401.5
11	FORAGES	3.2
12	FEED COST	
13	GRAINS	$ 15.79
14	COMPLETE RATION	1.44
15	PROTEIN, SALT & MINERAL & MILK	12.00
16	FORAGES	.13
17	PASTURE	--
18	TOTAL FEED COSTS	$ 29.36
19	RETURN OVER FEED COSTS	10.64
20	OTHER DIRECT COSTS	
21	MISCELLANEOUS LIVESTOCK EXPENSE	$ .80
22	VETERINARY EXPENSE	.51
23	CUSTOM WORK	1.13
24	SPECIAL HIRED LABOR	--
25	TOTAL OTHER DIRECT COSTS	$ 2.44
26	RETURN OVER FEED & OTHER DIRECT COSTS	$ 8.20
27	ALLOCATED COSTS	
28	POWER AND MACHINERY COSTS	$ 1.87
29	LIVESTOCK EQUIPMENT COSTS	1.94
30	BUILDINGS AND FENCES	2.50
31	TOTAL ALLOCATED COSTS	$ 6.31
32	RETURN OVER ALL LISTED COSTS	$ 1.89
33	SUPPLEMENTARY MANAGEMENT INFORMATION	
34	RETURN FOR $100 FEED FED	$136.25
35	PRICE RECEIVED/CWT. ALL ANIMALS	$ 43.74
36	PRICE RECEIVED/CWT. SOLD MKT. ONLY	$ 44.27
37	NUMBER OF LITTERS FARROWED	62
38	NUMBER OF PIGS BORN PER YEAR	9.9
39	NUMBER OF PIGS WEANED PER LITTER	7.7
39A	NUMBER OF PIGS PRODUCED/LITTER	7.6
40	PERCENT DEATH LOSS	12.1
41	AVERAGE WEIGHT OF ALL HOGS SOLD,LBS.	230.0
42	AVERAGE WEIGHT OF MKT. HOGS SOLD,LBS.	219.7
43	PRICE PER CWT. CONCENTRATE FED	$ 7.28
44	PRICE PER CWT. PROT.,SALT & MIN. FED	$ 17.93
45	POUNDS OF PORK PURCHASED	5,979
46	TOTAL LISTED COSTS/CWT. PORK PROD.	$ 38.11

* FARMS INCLUDED IN TABLE 11A-6530 HAD A MIXTURE OF FARROW-TO-FINISH, SELLING FEEDER PIGS, AND BUYING FEEDER PIGS FOR FATTENING. THEIR FEED RECORDS WERE NOT SEPARABLE FOR EACH CATEGORY OF HOGS.

TABLE 12-6290 - COSTS AND RETURNS FROM DAIRY COWS, COMMERCIAL HERDS - 1981 - S.E.

	ITEMS	Average of 26 Farms	13 Farms Highest in Return Above Feed Costs	13 Farms Lowest in Return Above Feed Costs
1	AVERAGE NUMBER OF COWS	62.5	63.2	61.9
		Per Cow	Per Cow	Per Cow
2	POUNDS OF MILK	14,956	15,712	14,160
3	POUNDS OF BUTTERFAT	542.6	572.3	511.5
4	PERCENT OF BUTTERFAT IN MILK	3.6	3.6	3.6
5	VALUE OF PRODUCE			
6	DAIRY PRODUCTS SOLD	$ 1,991.38	$ 2,099.97	$ 1,877.29
7	DAIRY PRODUCTS USED IN HOME	7.73	8.88	6.53
8	MILK FED TO LIVESTOCK	2.54	2.44	2.65
9	NET INCREASES IN VALUE OF COWS	(-89.22)	(-32.72)	(-146.75)
10	OTHER MISCELLANEOUS DAIRY INCOME	--	--	--
11	TOTAL VALUE PRODUCED	$ 1,912.43	$ 2,078.57	$ 1,739.72
12	POUNDS OF FEED FED			
13	CORN	6,133.6	6,475.9	5,774.2
14	SMALL GRAIN	274.1	153.5	396.7
15	COMPLETE RATION	1,028.1	1,217.1	833.4
16	PROTEIN, SALT & MINERAL	805.1	661.7	950.1
17	TOTAL CONCENTRATES	8,240.9	8,508.2	7,954.4
18	LEGUME HAY	5,937.5	5,618.8	6,253.3
19	OTHER HAY AND DRY ROUGHAGE	871.1	985.9	752.6
20	SILAGE	10,897.4	8,984.9	12,832.4
21	FEED COSTS			
22	GRAINS	$ 311.81	$ 322.18	$ 300.71
23	COMPLETE RATION	11.60	13.73	9.42
24	PROTEIN, SALT & MINERAL	144.0	128.67	159.42
25	ALL HAY AND DRY ROUGHAGE	261.62	263.8	258.98
26	SILAGE	127.26	90.22	164.88
27	PASTURE	2.75	2.83	2.65
28	TOTAL FEED COSTS	$ 859.04	$ 821.43	$ 896.06
29	RETURN OVER FEED COST	$ 1,053.39	$ 1,257.14	$ 843.66
30	OTHER DIRECT COSTS			
31	MISCELLANEOUS LIVESTOCK EXPENSE	$ 91.10	$ 93.29	$ 88.72
32	VETERINARY EXPENSE	40.14	38.02	42.23
33	CUSTOM WORK HIRED	51.31	44.83	57.85
34	SPECIAL HIRED LABOR	14.05	--	28.37
35	TOTAL OTHER DIRECT COSTS	$ 196.60	$ 176.14	$ 217.17
36	RETURN OVER FEED & OTHER DIRECT COSTS	$ 856.79	$ 1,081.00	$ 626.49
37	ALLOCATED COSTS			
38	POWER AND MACHINERY COSTS	$ 71.32	$ 82.34	$ 59.15
39	LIVESTOCK EQUIPMENT COSTS	93.01	85.46	100.80
40	BUILDINGS AND FENCES	96.62	107.27	84.88
41	TOTAL ALLOCATED COSTS	$ 260.95	$ 275.07	$ 244.83
42	RETURN OVER ALL LISTED COSTS	$ 595.84	$ 805.93	$ 381.66
43	SUPPLEMENTARY MANAGEMENT INFORMATION			
44	RETURN FOR $100 FEED FED	$ 222.62	$ 253.04	$ 194.15
45	FEED COST PER CWT. MILK	$ 5.74	$ 5.23	$ 6.33
46	FEED COST PER POUND OF BUTTERFAT	$ 1.58	$ 1.44	$ 1.75
47	POUNDS OF MILK/LB. OF CONCENTRATE	1.81	1.85	1.78
48	AVERAGE PRICE/CWT. MILK SOLD	$ 13.37	$ 13.42	$ 13.31
49	AVERAGE PRICE/LB. OF BUTTERFAT	$ 3.69	$ 3.69	$ 3.69
50	TOTAL LISTED COSTS/CWT. MILK PROD.	$ 8.80	$ 8.10	$ 9.59
51	DAIRY COW TURNOVER PERCENTAGE	30.4	31.6	30.7
52	TOTAL LISTED COSTS PER COW	1,316.59	1,272.64	1,358.06

TABLE 13A-6310 - COSTS AND RETURNS FROM OTHER DAIRY CATTLE, COMMERCIAL HERD REPLACEMENTS* - 1981 - S.E.

	ITEMS	Average of 9 Farms
1	NUMBER OF HEAD	87.0
		Per Head
2	NET INCREASE IN VALUE	$426.43
3	OTHER MISCELLANEOUS INCOME	--
4	TOTAL INCOME	$426.43
5	POUNDS OF FEED FED	
6	CORN	519.3
7	SMALL GRAIN	112.6
8	COMPLETE RATION	253.6
9	PROTEIN, SALT & MINERALS	227.1
10	HAY AND DRY ROUGHAGE	3,657.5
11	SILAGE	6,971.9
12	MILK	9.3
13	FEED COST	
14	GRAINS	$ 31.30
15	COMPLETE RATION	5.18
16	PROTEIN, SALT & MINERALS	34.20
17	HAY AND DRY ROUGHAGE	111.36
18	SILAGE	87.21
19	MILK	1.11
20	PASTURE	2.48
21	TOTAL FEED COSTS	$272.84
22	RETURN OVER FEED COSTS	$153.59
23	OTHER DIRECT COSTS	
24	MISCELLANEOUS EXPENSE	$ 16.60
25	VETERINARY EXPENSE	5.52
26	CUSTOM WORK HIRED	4.86
27	SPECIAL HIRED LABOR	--
28	TOTAL OTHER DIRECT COSTS	$ 26.98
29	RETURN OVER FEED & OTHER DIRECT COSTS	$126.61
30	ALLOCATED COSTS	
31	POWER AND MACHINERY COSTS	$ 20.21
32	LIVESTOCK EQUIPMENT COSTS	36.20
33	BUILDINGS AND FENCES	28.17
34	TOTAL ALLOCATED COSTS	$ 84.58
35	RETURN OVER ALL LISTED COSTS	$ 42.03
36	SUPPLEMENTARY MANAGEMENT INFORMATION	
37	RETURN FOR $100 FEED FED	$156.29
38	PERCENT DEATH LOSS - TOTAL	5.8
39	PERCENT CALF DEATH LOSS	12.8
40	TOTAL LISTED COSTS PER HEAD	$384.40

* TABLE 13A-6310 CONTAINS INFORMATION ON YOUNG DAIRY CATTLE KEPT FOR HERD REPLACEMENTS ONLY.

TABLE 13B-6318 - COSTS AND RETURNS FROM OTHER DAIRY CATTLE, REPLACEMENTS AND FEEDER STOCK COMBINED* - 1981 - S.E.

	ITEMS	Average of 20 Farms	10 Farms Highest in Return Above Feed Costs	10 Farms Lowest in Return Above Feed Costs
1	NUMBER OF HEAD	76.7	84.5	68.8
		Per Head	Per Head	Per Head
2	NET INCREASE IN VALUE	$ 274.21	$ 304.08	$ 237.92
3	OTHER MISCELLANEOUS INCOME	--	--	--
4	TOTAL INCOME	$ 274.21	$ 304.08	$ 237.92
5	POUNDS OF FEED FED			
6	CORN	1,050.6	945.0	1,181.9
7	SMALL GRAIN	145.8	116.0	182.6
8	COMPLETE RATION	41.3	53.3	26.7
9	PROTEIN, SALT & MINERALS	167.5	117.3	229.3
10	HAY AND DRY ROUGHAGE	2,408.2	1,581.3	3,427.3
11	SILAGE	4,080.1	4,609.2	3,436.0
12	MILK	17.6	16.9	18.5
13	FEED COST			
14	GRAINS	$ 58.85	$ 52.09	$ 67.25
15	COMPLETE RATION	3.95	4.38	3.43
16	PROTEIN, SALT & MINERALS	31.49	20.11	45.51
17	HAY AND DRY ROUGHAGE	95.79	62.28	137.09
18	SILAGE	43.34	47.96	37.70
19	MILK	2.13	2.04	2.24
20	PASTURE	4.30	3.35	5.49
21	TOTAL FEED COSTS	$ 239.85	$ 192.21	$ 298.71
22	RETURN OVER FEED COSTS	$ 34.36	$ 111.87	$ (-60.79)
23	OTHER DIRECT COSTS			
24	MISCELLANEOUS EXPENSE	$ 9.45	$ 6.54	$ 13.04
25	VETERINARY EXPENSE	4.07	5.63	2.15
26	CUSTOM WORK HIRED	1.50	1.99	.90
27	SPECIAL HIRED LABOR	--	--	--
28	TOTAL OTHER DIRECT COSTS	$ 15.02	$ 14.16	$ 16.09
29	RETURN OVER FEED & OTHER DIRECT COSTS	$ 19.34	$ 97.71	$ (-76.88)
30	ALLOCATED COSTS			
31	POWER AND MACHINERY COSTS	$ 12.21	$ 12.83	$ 11.67
32	LIVESTOCK EQUIPMENT COSTS	13.50	17.89	8.75
33	BUILDINGS AND FENCES	15.61	17.66	13.42
34	TOTAL ALLOCATED COSTS	$ 41.32	$ 48.38	$ 33.84
35	RETURN OVER ALL LISTED COSTS	$ (-21.98)	$ 49.33	$(-110.72)
36	SUPPLEMENTARY MANAGEMENT INFORMATION			
37	RETURN FOR $100 FEED FED	$ 114.33	$ 158.20	$ 79.65
38	PERCENT DEATH LOSS - TOTAL	8.7	7.8	9.8
39	PERCENT CALF DEATH LOSS	20.3	18.2	23.1
40	TOTAL LISTED COSTS PER COW	$ 296.19	$ 254.75	$ 348.64

* TABLE 13A-6318 CONTAINS COSTS AND RETURNS INFORMATION FOR AN ENTERPRISE THAT INCLUDES BOTH YOUNG DAIRY CATTLE KEPT FOR HERD REPLACEMENTS AND FEEDER CATTLE OF DAIRY BREEDS. ANALYSIS WAS DONE ON THE COMBINED GROUPS BECAUSE THESE FARMS DID NOT KEEP SEPARATE RECORDS OF FEED FOR THE TWO CATEGORIES. THE HIGH AND LOW CATEGORIES ARE BASED ON RETURNS ABOVE FEED COST PER COW (TABLE 12) FOR THESE SAME FARMS.

TABLE 14 - COSTS AND RETURNS FROM ALL DAIRY CATTLE* - 1981 - S.E.

	ITEMS	Average of 28 Farms	14 Farms Highest in Return Above Feed Costs	14 Farms Lowest in Return Above Feed Costs
1	AVERAGE NUMBER OF COWS	64	61.3	66.6
		Per Cow	Per Cow	Per Cow
2	VALUE OF DAIRY PRODUCTS	$ 1,985.94	$ 2,170.26	$ 1,819.26
3	NET INCREASE IN VALUE	353.59	340.70	366.01
4	MISCELLANEOUS DAIRY INCOME	--	--	--
5	TOTAL VALUE PRODUCED	$ 2,339.53	$ 2,510.96	$ 2,185.27
6	POUNDS OF FEED FED			
7	GRAINS	7,624.0	7,662.1	7,600.3
8	COMPLETE RATIONS	1,085.2	1,228.6	954.7
9	PROTEIN,SALT & MIN. INCL.MILK EQUIV.	1,150.4	975.8	1,312.9
10	HAY AND DRY ROUGHAGE	10,295.8	9,347.9	11,183.6
11	SILAGE	17,075.9	14,388.3	19,575.3
12	FEED COST			
13	GRAINS	$ 371.58	$ 373.23	$ 370.62
14	COMPLETE RATIONS	16.70	18.65	14.94
15	PROTEIN,SALT & MIN. INCL. MILK	199.20	184.36	213.17
16	HAY AND DRY ROUGHAGE	386.38	372.68	399.56
17	SILAGE	197.64	146.28	245.23
18	PASTURE COSTS	8.42	6.69	10.03
19	TOTAL FEED COSTS	$ 1,179.92	$ 1,101.89	$ 1,253.55
20	RETURN OVER FEED COSTS	$ 1,159.61	$ 1,409.07	$ 931.72
21	OTHER MISCELLANEOUS COSTS			
22	MISCELLANEOUS LIVESTOCK EXPENSE	$ 106.23	$ 101.58	$ 110.68
23	VETERINARY EXPENSE	48.25	52.95	43.99
24	CUSTOM WORK	55.16	50.57	59.46
25	SPECIAL HIRED LABOR	12.73	--	24.47
26	TOTAL OTHER DIRECT COSTS	$ 222.37	$ 205.10	$ 238.60
27	RETURN OVER FEED & OTHER DIRECT COSTS	$ 937.24	$ 1,203.97	$ 693.12
28	ALLOCATED COSTS			
29	POWER AND MACHINERY COSTS	$ 90.19	$ 100.90	$ 79.98
30	LIVESTOCK EQUIPMENT COSTS	120.25	116.14	124.52
31	BUILDINGS AND FENCES	118.75	139.10	99.32
32	TOTAL ALLOCATED COSTS	$ 329.19	$ 356.14	$ 303.82
33	RETURN OVER ALL LISTED COSTS	$ 608.05	$ 847.83	$ 389.30
34	SUPPLEMENTARY MANAGEMENT INFORMATION			
35	RETURN FOR $100 FEED FED	$ 198.28	$ 227.88	$ 174.33
36	TOTAL LISTED COSTS PER COW	$ 1,731.48	$ 1,663.13	$ 1,795.97

* TABLE 14 REPRESENTS A PICTURE OF THE COSTS AND RETURNS FROM THE WHOLE DAIRY HERD, i.e., IT IS THE SUM OF TABLES 12 AND 13. THE INFORMATION IS PRESENTED ON A PER COW BASIS, WITH THE NUMBER OF COWS TAKEN FROM TABLE 12. RETURN ABOVE FEED COST IN TABLE 12 WAS USED IN TABLE 14.

TABLE 15A-6100A - COSTS AND RETURNS FROM BEEF BREEDING CATTLE, FARM, COMMERCIAL HERD* - 1981 - S.E.

	ITEMS	Average of 7 Farms
1	AVERAGE NUMBER OF BEEF COWS	29.4
2	AVERAGE NUMBER OF OTHER BEEF ANIMALS AND BULLS	15.5
3	POUNDS OF BEEF PRODUCED	12,616
		Per Cow
4	NET INCREASE IN VALUE	$ 183.88
5	OTHER MISCELLANEOUS BEEF INCOME	--
6	TOTAL VALUE PRODUCED	$ 183.88
7	POUNDS OF FEED FED	
8	GRAIN	335.6
9	PROTEIN, SALT & MINERAL	188.4
10	LEGUME HAY	3,945.6
11	OTHER HAY AND DRY ROUGHAGE	583.1
12	SILAGE	1,412.0
13	FEED COST	
14	GRAIN	$ 16.43
15	PROTEIN, SALT & MINERAL	8.27
16	LEGUME HAY	157.82
17	OTHER HAY AND DRY ROUGHAGE	11.67
18	SILAGE	31.87
19	PASTURE	26.67
20	TOTAL FEED COSTS	$ 252.73
21	RETURN OVER FEED COST	$ (-68.85)
22	OTHER DIRECT COSTS	
23	MISCELLANEOUS LIVESTOCK EXPENSE	$ .10
24	VETERINARY EXPENSE	1.09
25	CUSTOM WORK	5.68
26	SPECIAL HIRED LABOR	--
27	TOTAL OTHER DIRECT COSTS	$ 6.87
28	RETURN OVER FEED & OTHER DIRECT COSTS	$ (-75.72)
29	ALLOCATED COSTS	
30	POWER AND MACHINERY COSTS	$ 54.21
31	LIVESTOCK EQUIPMENT COSTS	75.47
32	BUILDINGS AND FENCES	82.40
33	TOTAL ALLOCATED COSTS	212.08
34	RETURN OVER ALL LISTED COSTS	$(-287.80)
35	SUPPLEMENTARY MANAGEMENT INFORMATION	
36	RETURN FOR $100 FEED FED	$ 72.76
37	PRICE PER CWT. SOLD	$ 41.45
38	PRICE PER CWT. CALVES SOLD OR TRANSFERRED	$ 58.83
39	AVERAGE WEIGHT PER HEAD SOLD, POUNDS	1,210.6
40	AVERAGE WEIGHT PER CALF SOLD OR TRANSFERRED, POUNDS	442.9
41	PERCENT DEATH LOSS	4.1
42	PERCENT CALF CROP	93.5
43	TOTAL LISTED COSTS PER COW	$ 471.68

* TABLE 15A-6100A 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-6140A - COSTS AND RETURNS FROM BEEF FEEDER CATTLE, FEEDLOT - 1981 - S.E.

	ITEMS	Average of 14 Farms	7 Farms Highest in Return Above Feed Costs	7 Farms Lowest in Return Above Feed Costs
1	AVERAGE NUMBER OF BEEF FEEDERS	74.0	42.2	105.8
2	POUNDS OF BEEF PRODUCED	44,013	35,858	52,168
		Per Cwt.	Per Cwt.	Per Cwt.
3	NET INCREASE IN VALUE OF ANIMALS	$ 49.53	$ 54.62	$ 46.04
4	OTHER MISCELLANEOUS BEEF INCOME	--	--	--
5	TOTAL VALUE PRODUCED	$ 49.53	$ 54.62	$ 46.04
6	POUNDS OF FEED FED			
7	GRAIN	573.2	494.4	627.5
8	PROTEIN, SALT & MINERAL	49.2	45.9	51.5
9	LEGUME HAY	268.2	228.9	295.2
10	OTHER HAY AND DRY ROUGHAGE	5.5	13.5	--
11	SILAGE	818.3	154.6	1,274.5
12	FEED COST			
13	GRAIN	$ 26.48	$ 23.98	$ 28.19
14	PROTEIN, SALT & MINERAL	6.34	6.70	6.09
15	LEGUME HAY	10.73	9.16	11.81
16	OTHER HAY AND DRY ROUGHAGE	.11	.27	--
17	SILAGE	8.18	1.54	12.75
18	PASTURE	.27	.68	--
19	TOTAL FEED COST	$ 52.11	$ 42.33	$ 58.84
20	RETURN OVER FEED COST	$ (-2.58)	$ 12.29	$ (-12.80)
21	OTHER DIRECT COSTS			
22	MISCELLANEOUS LIVESTOCK EXPENSE	$ 1.10	$ 1.92	$ .53
23	VETERINARY EXPENSE	.55	.31	.72
24	CUSTOM WORK HIRED	2.56	2.80	2.40
25	SPECIAL HIRED LABOR	--	--	--
26	TOTAL OTHER DIRECT COSTS	$ 4.21	$ 5.03	$ 3.65
27	RETURN OVER FEED & OTHER DIRECT COSTS	$ (-6.79)	$ 7.26	$ (-16.45)
28	ALLOCATED COSTS			
29	POWER AND MACHINERY COSTS	$ 2.61	$ 2.77	$ 2.52
30	LIVESTOCK EQUIPMENT COSTS	2.63	1.78	3.30
31	BUILDINGS AND FENCES	3.63	3.16	3.99
32	TOTAL ALLOCATED COSTS	$ 8.87	$ 7.71	$ 9.81
33	RETURN OVER ALL LISTED COSTS	$ (-15.66)	$ (-.45)	$ (-26.26)
34	SUPPLEMENTARY MANAGEMENT INFORMATION			
35	RETURN FOR $100 FEED FED	$ 95.06	$ 129.02	$ 78.24
36	PRICE PER CWT. SOLD	$ 59.99	$ 60.18	$ 59.90
37	AVERAGE WEIGHT PER HEAD SOLD, LBS.	1,176.9	1,233.2	1,164.4
38	PRICE PER CWT. BOUGHT	$ 62.78	$ 56.26	$ 64.63
39	AVERAGE WEIGHT PER HEAD BOUGHT,LBS.	532.4	578.5	514.6
40	NUMBER OF HEAD BOUGHT	54	22	87
41	PERCENT DEATH LOSS	2.0	1.2	1.8
42	EFFECTIVE DAILY GAIN - POUNDS/HEAD/DAY	1.63	2.33	1.35
43	TOTAL LISTED COST PER CWT. PROD.	$ 65.19	$ 55.07	$ 72.30

TABLE A. AVERAGES BY TYPE OF FARM - 1981 - S.E.

	ITEMS	Average All Farms	Cash Crops	Cash Crops Plus Dairy	Dairy 55-74	Cash Crops Plus Hogs Farrow-Finish	Dairy 75 + Cows
1	Number of Farms	63	10	9	7	7	5
	Land						
2	Acres Per Farm	382	382	421	275	570	586
3	Acres Tillable	327	343	363	228	530	491
4	% Tillable in High Return Crops	84.2	95.6	77.6	69.5	97.2	71.1
5	% Tillable in Corn & Corn Silage	61.3	59.3	61.4	47.6	50.3	54.4
6	% Tillable in Soybeans	32.4	33.8	23.1	9.4	36.8	--
7	% Tillable in Alfalfa	18.1	6.7	19.7	27.7	3.5	31.3
	Labor						
8	Number of Workers	2.05	1.36	2.03	2.17	3.11	3.28
9	Total Work Units	557.74	209.25	606	667.82	629.58	1,391.18
10	Work Units in Crops	168.69	173.95	192.55	124.38	269.14	263.65
11	Work Units in Livestock	381.78	15.18	400.63	539.98	356.57	1,127.09
12	Units Per Worker	272.1	153.9	298.52	307.75	202.43	424.14
	Capital						
13	Average Farm Capital Managed[a/]	$518,088	$486,574	$438,598	$365,645	$1,105,919	$829,220
14	Capital Managed Per Worker[a/]	$252,726	$357,775	$216,058	$168,500	$355,601	$252,811
	Earnings: Operator's Share						
15	Net Cash Operating Income	$ 48,013	$ 17,422	$ 53,776	$ 65,704	$ 48,798	$125,035
16	Return to Operator Labor & Mgmt.	$ 15,765	$(-1,162)	$ 20,716	$ 40,713	$ 16,741	$ 21,721
17	Ret. Op. & Fam. Labor, Mgmt, Equity Cap.	$ 26,177	$ 1,871	$ 31,462	$ 51,596	$ 25,009	$ 41,372
18	Return to Capital - Whole Farm (%) [b/]	5.2	1.6	6.8	12.1	6.0	5.0
19	Total Farm Sales	$163,340	$ 85,111	$164,870	$155,612	$255,038	$327,476
20	Total Value Added	$113,376	$ 57,864	$120,291	$132,962	$170,497	$254,889
	Proportion of Value Added (%)						
21	From Livestock	39.7	-2.23	35.37	58.29	27.04	57.48
22	From Crops	57.7	97.53	61.12	39.98	71.06	39.81
	Expenses						
23	Cash Exp. Per $100 Sales	$ 68.8	$ 79.40	$ 67.36	$ 57.73	$ 70.89	$ 53.58
24	Purchases Per $100 Sales	$ 88.9	$ 89.34	$ 84.59	$ 75.54	$109.08	$ 75.89
	Yields Per Acre						
25	Corn (bushels)	126.9	121.1	128.3	123.7	126.7	139
26	Soybeans (bushels)	36.7	32.3	38.5	19.4	41.8	--
27	Alfalfa (tons)	4.6	2.3	4.4	4.7	4.0	5.7
28	Corn Silage (tons)	19.3	--	20.3	21.6	16.0	20.8

a/With land valued at cost when acquired.

b/With operator's labor and management valued at $12,000/yr.

TABLE B. COUNTY AVERAGES - 1981 - S.E.

ITEMS	S.E. Ass'n. Average	Dakota, LeSueur, Nicollet, Rice, Scott	Goodhue, Olmsted, Wabasha, Winona, Houston	Dodge, Freeborn, Mower, Steele, Waseca
1 Number of Farms	63	20	28	15
2 Size of Farm - Acres Total	382	394	407	320
3 Tillable Acres	327	343	336	290
4 Farm Capital Invested Per Worker[a]	$252,726	$258,027	$202,154	$338,251
5 Total Farm Capital 12/31[a]	$461,691	$464,065	$460,380	$448,796
6 Increase in Farm Capital 1/1-12/31[b]	$ 9,280	$ 5,461	$ 2,741	$ 14,403
7 Total Farm Receipts	$178,475	$221,122	$188,614	$137,257
8 Total Farm Expenses	$165,615	$195,149	$187,377	$131,936
9 Return to Labor & Mgmt.- Whole Farm[a]	$ 12,860	$ 25,973	$ 1,238	$ 5,321
10 Total Cash Living Expenses[b]	$ 15,243	$ 18,032	$ 14,391	$ 13,874
11 Total Household & Personal Living Exp.[b]	$ 31,609	$ 29,197	$ 36,573	$ 25,749
12 Farmer's Net Worth 12/31[b]	$238,612	$374,933	$177,714	$192,200
13 Gain in Net Worth[c]	$ 1,330	$ 24,539	$(-31,866)	$ 7,433
14 Ratio of Assets to Liabilities 12/31[c]	2.347	3.126	1.847	2.498
15 Operator's Share-Ret. to Lab. & Mgmt.[a]	$ 15,765	$ 27,050	$ 3,685	$ 11,516
16 Ret. Op. & Fam. Labor, Mgmt, & Equity Cap.	$ 26,177	$ 39,992	$ 13,591	$ 19,077
17 Net Cash Operating Income	$ 48,013	$ 64,143	$ 47,011	$ 28,377
18 Oats Yield Per Acre (bu.)	71.2	72.7	67.9	82.5
19 Total Crop Return Per Acre	$155.90	$153.12	$148.26	$189.31
20 Return Over All Listed Costs Per Acre[d]	$ 23.16	$ 28.08	$ 18.24	$ 34.96
21 Cost of Production Per Bushel[d]	$ 1.86	$ 1.72	$ 1.92	$ 1.87
22 Wheat Yield Per Acre (bu.)	44.9	47.4	46.5	34.8
23 Total Crop Return Per Acre	$185.84	$192.17	$203.82	$135.96
24 Return Over All Listed Costs Per Acre[d]	$ 29.45	$ 27.98	$ 56.80	$(-11.06)
25 Cost of Production Per Bushel	$ 3.49	$ 3.47	$ 3.16	$ 4.22
26 Alfalfa Hay Yield Per Acre (tons)	4.6	4.5	4.6	4.1
27 Total Crop Return Per Acre	$366.12	$362.89	$370.28	$325.77
28 Return Over All Listed Costs Per Acre[d]	$176.01	$184.58	$177.41	$ 99.90
29 Cost of Production Per Ton[d]	$ 41.47	$ 39.31	$ 41.52	$ 55.47
30 Corn Silage Yield Per Acre (tons)	19.3	20.7	19.9	15.4
31 Total Crop Return Per Acre	$386.51	$414.05	$397.45	$307.61
32 Return Over All Listed Costs Per Acre[d]	$148.48	$170.90	$155.11	$ 92.86
33 Cost of Production Per Ton[d]	$ 12.32	$ 11.75	$ 12.20	$ 13.96

[a] With land valued at cost when acquired.

[b] Average of those reporting, as not all farmers report this item.

[c] Land price constant, 1/1/81 to 12/31/81.

[d] Includes charge for land (see TABLE 7).

TABLE B. COUNTY AVERAGES - 1981 - S.E. (continued)

ITEMS	S.E. Ass'n Average	Dakota, LeSueur, Nicollet, Rice, Scott	Goodhue, Olmstead, Wabasha, Winona, Houston	Dodge, Freeborn, Mower, Steele, Waseca
34 Corn Yield Per Acre (bu.)	126.9	133.2	127.5	116.7
35 Total Crop Return Per Acre	$ 284.43	$ 294.20	$ 280.86	$ 227.74
36 Fertilizer (Costs Per Acre)	$ 49.91	$ 41.42	$ 52.21	$ 57.13
37 Chemicals	$ 22.75	$ 23.52	$ 23.63	$ 19.91
38 Seed and Other	$ 32.17	$ 29.68	$ 34.40	$ 31.15
39 Custom Work Hired	$ 9.37	$ 9.57	$ 10.26	$ 7.26
40 Machinery - Ownership	$ 30.18	$ 32.15	$ 29.40	$ 28.99
41 Machinery - Operation	$ 29.96	$ 25.63	$ 32.75	$ 30.34
42 Interest on Machinery	$ 7.98	$ 8.60	$ 7.87	$ 7.33
43 Land Cost	$ 73.77	$ 77.75	$ 71.96	$ 72.06
44 Return Over All Listed Costs	$ 27.40	$ 45.74	$ 17.44	$ 21.50
45 Cost of Production Per Bushel	$ 2.03	$ 1.87	$ 2.07	$ 2.19
46 Soybean Yield Per Acre (bu.)	36.7	42.3	39.3	30.1
47 Total Crop Return Per Acre	$ 233.87	$ 250.17	$ 231.42	$ 217.68
48 Fertilizer (Costs Per Acre)	$ 3.48	$ 3.80	$ 3.86	$ 3.05
49 Chemicals	$ 24.49	$ 25.23	$ 27.46	$ 22.88
50 Seed and Other	$ 16.38	$ 13.41	$ 21.88	$ 17.97
51 Special Hired Labor	$ .16	$ .36	0	0
52 Custom Work Hired	$ 5.96	$ 5.23	$ 12.27	$ 4.94
53 Machinery - Ownership	$ 23.02	$ 25.13	$ 23.00	$ 20.81
54 Machinery - Operation	$ 23.78	$ 23.18	$ 26.60	$ 23.63
55 Interest on Machinery	$ 5.99	$ 6.25	$ 6.80	$ 5.48
56 Land Cost	$ 73.68	$ 76.15	$ 72.08	$ 72.69
57 Return Over All Listed Costs	$ 55.67	$ 71.43	$ 37.45	$ 43.30
58 Cost of Production Per Bushel	$ 4.85	$ 4.22	$ 4.94	$ 5.80
RETURN OVER ALL LISTED COSTS e/				
59 Hogs, Farrow-to-Finish, per cwt.	$ 5.88	$ 5.98	$ 5.51	$ 6.40
60 Dairy Cows, per head	$ 595.84	$ 702.12	$ 499.44	$ 749.23
61 Beef Cows, per head	$(-287.80)	$(-503.73)	$(-185.24)	$(-152.67)
62 Beef Feeders, per cwt.	$(- 15.66)	$(- 27.08)	$(- 12.01)	$(- .99)
TOTAL LISTED COSTS PER UNIT PRODUCED				
63 Hogs, Farrow-to-Finish, per cwt.	$ 37.03	$ 37.63	$ 36.58	$ 36.29
64 Dairy Cows, per cwt. milk	$ 8.80	$ 8.54	$ 9.19	$ 7.69
65 Beef Cows, per head	$ 471.68	$ 683.53	$ 384.94	$ 211.49
66 Beef Feeders, per cwt.	$ 65.19	$ 79.07	$ 59.72	$ 62.13

e/ Numbers in parentheses are numbers of farms with that livestock enterprise.

TABLE C. SUMMARY BY YEARS - WHOLE FARM ANALYSIS - S.E.

	ITEMS	Average 1940-49	Average 1950-59	Average 1960-69	Average 1970-79	Average 1975-79	1978	1979	1980	1981
1	Receipts									
2	Cash Flow									
3	From Livestock	9,746	14,780	22,680	59,926	81,412	95,371	96,200	110,508	122,069
4	From Crops	1,324	2,939	5,626	23,851	31,774	34,450	41,990	47,728	38,492
5	Other	694	932	1,430	3,569	4,906	5,946	5,733	6,762	7,905
6	Subtotal Cash	11,764	18,651	29,736	87,346	118,092	135,767	143,923	164,998	168,465
7	Non-Cash									
8	Increase in Farm Capital	1,190	1,419	1,972	18,280	25,083	45,408	32,291	38,253	9,280
9	Family Living	639	460	312	500	586	608	645	744	730
10	Subtotal Non-Cash	1,829	1,879	2,284	18,780	25,669	46,016	32,936	38,997	10,010
11	Total Farm Receipts	13,593	20,530	32,020	106,126	143,761	181,783	176,859	203,995	178,475
12	Expenses									
13	Cash Flow									
14	Livestock Purch. & Misc. Exp.	1,055	1,940	2,772	7,320	9,854	12,337	14,640	14,825	14,182
15	Feed Bought	1,611	2,499	3,987	10,044	13,935	14,234	14,789	18,845	21,882
16	Crops	496	1,271	2,828	11,782	17,151	20,334	20,755	24,024	24,611
17	Custom Work Hired	280	649	1,047	2,392	2,994	3,260	3,727	4,976	5,183
18	Hired Labor	713	867	1,010	2,796	3,766	3,931	5,026	5,897	4,310
19	Real Estate Repair & Upkeep	255	343	385	1,147	1,604	1,685	2,022	1,892	1,784
20	Mach & Equip: Rpr, Opn, Fuel	921	1,691	2,426	6,170	8,273	8,684	10,709	13,143	13,675
21	Taxes	330	748	1,430	2,542	3,022	3,148	3,403	3,749	3,351
22	Gen Farm Exp. + Util.	116	438	849	2,397	3,502	4,087	4,428	5,600	6,205
23	Subtotal Cash Op. Expense	5,777	10,446	16,734	46,590	64,101	71,700	79,499	93,054	95,187
24	Crop & Lvstk Mach & Equip Purch.	1,039	2,085	3,103	11,948	16,619	18,961	22,999	24,449	17,422
25	R.E., Bldgs, Fence, Tile, Purch.	547	983	1,538	9,040	16,283	21,728	24,550	20,403	15,395
26	Subtotal Asset Purchases	1,586	3,068	4,641	20,988	32,902	40,689	47,549	44,852	32,817
27	Subtotal Cash Purchases	7,363	13,514	21,375	67,578	97,003	112,389	127,048	137,907	128,004
28	Non-Cash									
29	Decrease in Farm Capital	--	--	--	--	--	--	--	--	--
30	Board Furnished Hired Labor	166	150	85	143	240	308	185	238	312
31	Interest on Farm Capital	1,429	2,302	3,668	14,078	20,565	25,277	26,796	31,508	31,993
32	Unpaid Family Labor	416	519	715	3,651	3,831	3,801	3,483	2,599	5,306
33	Subtotal Non-Cash Expense	2,011	2,971	4,468	17,872	24,636	29,386	30,464	34,345	37,611
34	Total Farm Expense	9,374	16,485	25,843	85,450	121,639	141,775	157,512	176,721	165,615
35	Return to Oper. Labor & Mgmt.	4,219	4,045	6,177	20,676	22,122	40,008	19,347	27,273	12,860
36	Return to Oper. Labor & Mgmt. plus Family Labor plus Farm Capital	5,814	6,866	9,930	34,897	42,927	69,086	49,626	61,380	50,159

TABLE C. SUMMARY BY YEARS - WHOLE FARM ANALYSIS - 1980 - S.E. (continued)

	ITEMS	Average 1940-49	Average 1950-59	Average 1960-69	Average 1970-79	Average 1975-79	1978	1979	1980	1981
37	Number of Farms	173	164	146	99	83	74	83	86	63
38	Size: Total Acres	225.44	230.1	268.05	348.83	368.75	385.1	349.0	378.7	382.1
39	Tillable Acres	167.68	180.2	221.43	298.56	318.49	332.5	307.1	331.0	327.3
40	Work Units	636.72	510.5	530.48	485.22	516.45	540.91	509.58	557.18	557.74
41	No. of Workers	2.1	1.8	1.7	1.8	1.9	1.92	1.91	1.87	2.05
42	Farm Capital: Total on 12/31	29,175	45,944 c/	71,994	222,887	314,969	383,797	398,952	467,004	461,691
43	Change 1/1-12/31	1,190	1,767 c/	1,972	18,280	25,083	45,408	32,291	33,784	9,280
44	Measures of Farm Org. & Mgmt. Efficiency									
45	Percent Land in High Return Crops	46.92	62.75	60.23	69.31	74.91	81.0	80.2	83.6	84.2
46	Livestock Units per 100 Acres	23.66	31.32	35.48	36.08	37.80	37.77	37.74	38.85	41.01
47	Work Units per Worker	268.63	277.46	313.38	270.25	272.09	281.72	266.80	297.96	272.07
48	Expenses per Work Unit	3.49	9.30	14.35	43.01	55.40	57.64	69.81	78.68	81.02
49	Monthly Charge For:									
50	Unpaid Family Labor	88	129	154	435	550	600	700	700	800
51	Second Operator	a/	129	241	b/	b/	1,000	1,000	1,000	1,000
52	Board for Hired Labor	28	37	42	102	134	120	180	180	180
	KEY MEASURES IN CONSTANT DOLLARS e/									
53	Cash Receipts (#6) d/	21,666	23,090 c/	31,347	59,788	65,045	69,482	66,202	66,855	61,845
54	Non-Cash Receipts (#10)	3,368	2,326 c/	2,408	12,855	14,138	23,550	15,150	15,801	3,675
55	Total Farm Receipts (#11)	25,034	25,416 c/	33,755	72,643	79,183	93,032	81,352	82,656	65,519
56	Cash Operating Expense (#23)	10,640	12,932 c/	17,641	31,891	35,307	36,694	36,568	37,704	34,944
57	Asset Purchases (#26)	2,921	3,798 c/	4,893	14,366	18,122	20,823	21,872	18,173	12,047
58	Cash Expenses (#27)	13,561	16,730 c/	22,534	46,257	53,429	57,517	58,440	55,878	46,991
59	Non-Cash Expense (#33)	3,704	3,678 c/	4,710	12,233	13,570	15,039	14,013	13,916	13,807
60	Total Farm Expense (#34)	17,265	20,408 c/	27,244	58,490	66,999	72,556	72,453	71,605	60,798
61	Return to Oper. Labor & Mgmt. + Family Labor + Farm Capital (#36)	10,708	8,500 c/	10,468	23,887	23,644	35,356	22,827	24,870	18,414
62	Farm Capital: Total on 12/31 (#42)	53,740	56,801 c/	75,896	152,432	173,012	196,416	183,511	189,224	169,490
63	Change 1/1-12/31 (#43)	2,192	2,185 c/	2,079	12,502	13,778	23,238	14,853	13,689	3,407

a/ Data from previous summaries not available in this form.

b/ Labor earnings were divided between the various partners.

c/ Data not available for 1954-55; eight year average is used.

d/ Number in ( ) refers to line number on previous page.

e/ See line 16 and footnote d/ of TABLE D.

TABLE D. SUMMARY BY YEARS - S.E.
OPERATOR'S SHARE ANALYSIS
CURRENT DOLLAR VALUE

	Average 1940-49	Average 1950-59[c]	Average 1960-69	Average 1970-79	Average 1975-79	1978	1979	1980	1981
1 Farmer's Net Worth: Total on 12/31[e]	28,211[a]	37,941	53,695	169,461	219,331	242,939	222,179	226,961	238,612
2 Change 1/1-12/31[e]	2,424[a]	2,506	3,442	19,640	22,832	33,051	13,839	13,042	1,330
3 Ratio of Assets to Liabilities 12/31[e]	6.297	4.815	3.003	3.420	3.551	3.306	3.333	2.655	2.347
4 Total Cash Living Expense[e]	1,700	2,970	4,461	9,438	11,727	13,115	14,322	14,746	15,243
5 Total Farm Receipts: OP Share-T6A L40	13,666[b]	19,271	33,080	102,483	142,127	181,771	175,143	200,521	171,738
6 Total Farm Expenses: OP Share-T6B L46	9,679[b]	15,085	26,440	81,265	118,434	138,838	153,361	169,961	155,973
7 Return to Oper. Labor & Mgmt.-T6B L47	3,987[b]	4,186	6,640	21,218	23,693	42,933	21,782	30,560	15,765
8 Return to Oper. Labor & Mgmt. plus Equity and Family Labor-T6B L48	5,240[b]	5,891	8,876	28,431	34,051	55,428	35,062	40,853	26,177

OPERATOR'S SHARE ANALYSIS
CONSTANT DOLLAR VALUE[d]

	Average 1940-49	Average 1950-59[c]	Average 1960-69	Average 1970-79	Average 1975-79	1978	1979	1980	1981
9 Farmer's Net Worth: Total on 12/31	47,930[a]	47,214	56,385	111,251	118,263	124,329	102,198	91,962	87,596
10 Change 1/1-12/31	4,118[a]	3,118	3,614	12,894	12,311	16,915	6,366	5,284	488
11 Total Cash Living Expense	3,178	3,689	4,683	6,529	6,528	6,712	6,588	5,975	5,596
12 Total Farm Receipts: OP Share	22,740[b]	23,981	34,039	69,709	77,388	93,025	80,563	81,248	63,046
13 Total Farm Expenses: OP Share	16,106[b]	18,772	27,207	55,276	64,487	71,053	70,543	68,866	57,259
14 Return to Oper. Labor & Mgmt.	6,634[b]	5,209	6,833	14,432	12,901	21,972	10,019	12,383	5,787
15 Return to Oper. Labor & Mgmt. plus Equity and Family Labor	8,719[b]	7,331	9,133	19,339	18,541	28,366	16,128	16,553	9,610
16 Weighted Consumer Price Index[d]	60.1	80.4	97.2	147.0	183.7	195.4	217.4	246.8	272.4

[a] Data not available for 1940-42; seven year average is used.

[b] Data not available for 1940-43; six year average is used.

[c] Data not available for 1954-55; eight year average is used.

[d] Used Consumer Price Index for "all items" (1967=100). Ten-year averages were obtained by dividing the number of farms each year by the index for that year, then adding the results and dividing the sum by the total number of farms in the ten-year analysis. The price deflater used was, therefore, a "modified" or "weighted" Consumer Price Index. For individual years, (1977-80) the CPI in line 16 is that which was reported by the Department of Commerce.

[e] Average of those reporting, as not all farmers report this item.

TABLE E. MISCELLANEOUS ITEMS - S.E. - SUMMARY BY YEARS

ITEMS	Average 1940-49	Average 1950-59	Average 1960-69	Average 1970-79	Average 1975-59	1977	1978	1979	1980	1981
PRICE RECEIVED PER:										
Pound of butterfat in milk	$ .80	$ .95*	$ 1.02	$ 1.94	$ 2.51	$ 2.49	$ 2.64	$ 3.15	$ 3.42	$ 3.69
100 lbs. of fat cattle	14.33	24.30*	23.05	39.21	45.81	37.85	50.62	63.73	63.17	59.99
Pound of wool	.41	.58*	.61	.70a/	--	--	--	--	--	--
Dozen eggs	.33	.35*	.28	--	--	--	--	--	--	--
100 lbs. of hogs sold	14.91	17.75*	17.76	34.34	44.51	40.61	47.70	41.28	38.72	40.28
PRICE OF FEED										
Corn, bu.	$ 1.00	$ 1.21	$ 1.05	$ 1.89	$ 2.20	$ 2.00	$ 1.80	$ 2.10	$ 2.40	$ 2.70
Barley, bu.	.95	1.04	.94	.76b/	--	1.60	1.75	--	--	2.71
Oats, bu.	.61	.67	.62	1.09	1.29	1.20	1.10	1.25	1.40	1.80
Alfalfa Hay, ton	14.15	18.25	20.10	39.10	52.00	50.00	40.00	40.00	60.00	80.00
Timothy Hay, ton	--	--	--	14.44a/	--	--	--	--	--	60.00
Corn Silage, ton	--	--	--	13.38	17.60	16.00	15.00	15.00	18.00	22.00
Oilmeal, bu.	3.06	3.96	4.68	--	--	--	--	--	--	--
ACRES PER FARM										
Small grains	58.67	42.23	32.66	26.73	27.56	34.1	22.3	19.0	22.5	19.1
Cultivated crops	53.48	78.20	116.30	207.61	234.97	245.9	243.0	225.3	254.2	256.3
Tillable land in hay	30.41	38.00	39.64	44.16	45.39	46.0	48.0	42.5	47.2	46.0
Tillable land in pasture	21.18	21.16	14.95	8.71	8.02	2.8	5.5	17.1	4.8	2.5
Tillable land not cropped	2.78	1.42	17.67c/	12.04c/	3.40	-0.7d/	13.7	3.1	1.9	3.4
Total tillable land	166.53	181.01	221.22	299.25	319.34	328.1	332.5	307.0	331.0	327.3
Non-tillable land	58.91	49.12	46.83	49.56	49.39	51.9	52.6	41.9	47.7	54.8
Total acres per farm	225.44	230.13	268.05	348.81	368.73	380.0	385.1	348.9	378.7	382.1
YIELD PER ACRE										
Corn, bu.	--	66.59	78.82	96.72	107.35	119.9	124.8	119.4	106.3	126.9
Barley, bu.	--	33.09	43.05	49.52	56.92	71.2	58.1	--	--	65.0
Oats, bu.	--	51.44	60.18	63.71	67.15	76.0	65.1	66.1	61.2	71.2
Alfalfa Hay, ton	--	2.78	3.06	3.75	3.95	4.3	4.6	4.4	3.9	4.6
Soybeans, bu.	--	22.74	23.96	31.56	36.18	43.0	39.2	39.0	34.9	36.7

* Data for 1954 and 1955 is not included. Figures represent an eight-year average.

-- Means information is not available.

a/ Five-year average, 1970-1974.

b/ Six-year average, 1970-1973, 1977 and 1978.

c/ Including feed grain program.

d/ Negative sign means that double-cropped area exceeded area not cropped by amount shown.

TABLE E. MISCELLANEOUS ITEMS - S.E. - SUMMARY BY YEARS (continued)

ITEMS	Average 1940-49	Average 1950-59[b]	Average 1960-69	Average 1970-79	Average 1975-79	1977	1978	1979	1980	1981
RETURN ABOVE FEED COST PER:										
Dairy Cow	120.84	167.70	216.96	511.16	680.18	717.77	929.71	1,051.79	996.74	1,053.39
100 lbs. feeder cattle produced	4.29	6.69	2.94	8.16	15.11	2.04	35.43	30.42	19.06	(-2.58)
Ewe	5.65	6.42	5.93	6.77[c]	--	--	--	--	--	11.64
100 lbs. hogs produced	5.03	5.52	7.01	14.14	19.65	21.83	28.05	12.98	11.91	14.04
Hen	2.06	1.67	1.15	--	--	--	--	--	--	--
Beef Cow	23.41	19.28	12.98	13.08[d]	.96[e]	13.78	--	214.76	51.11	(-68.85)
FEED COST PER:										
Dairy Cow	92.32	144.59	186.60	424.42	579.29	546.06	515.00	535.30	709.15	859.04
100 lbs. feeder cattle produced	15.10	18.72	16.05	35.15	40.74	44.39	34.64	32.02	38.86	52.11
Ewe	4.02	7.62	14.78	38.55[c]	--	--	--	--	--	46.03
100 lbs. hogs produced	10.14	11.89	11.95	19.28	23.78	19.60	22.23	24.10	29.14	28.87
Hen	3.34	4.36	3.30	--	--	--	--	--	--	--
Beef Cow	47.95	105.03	95.34	171.01[d]	217.27	179.65	--	244.02	247.13	252.73
MISCELLANEOUS LIVESTOCK INFORMATION										
Number of dairy cows[a]	15.76	17.96	23.39	26.13	25.60	25.96	28.86	25.54	26.50	23.79
Head in beef breeding herd[a]	1.14	1.32	1.98	1.76	2.12[e]	1.85	--	2.89	3.63	3.27
Pounds of feeder cattle produced[a]	1,155	2,964	4,970	6,779	6,323	4,964	6,810	8,518	11,181	9,781
Litters of pigs[a]	13.01	15.75	19.59	31.41	38.98	45.00	44.40	27.46	27.41	41.43
Pounds of hogs produced[a]	20,005	51,940	64,213	56,459	68,535	82,772	76,520	43,182	44,376	68,419
Number of hens[a]	277	206	165	--	--	--	--	--	--	--
Pounds of butterfat per dairy cow	264	327	393	473	497	509	523	504	516	542.6
Pigs weaned per litter	6.3	6.8	7.2	7.2	7.2	7.4	7.2	6.2	7.2	7.1
Percent lamb crop	101	98	100	117 [c]	--	--	--	--	--	229.2
Eggs per hen	160	198	203	--	--	--	--	--	--	--

[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 23). Thus, these 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 decreasing, the number of litters being farrowed is increasing, etc., in the general area covered by the Southeastern Minnesota Farm Management Association. Method of calculation changed slightly in 1977.

[b] Data was not available for 1954-55. Figures are based on an eight-year average.

[c] Seven-year average.

[d] Nine-year average.

[e] Four-year average.