

April 1988

Mankato Technical Institute
In cooperation with the State Board of
Vocational Technical Education and
the Division of Agricultural Education,
University of Minnesota

AN ADULT EDUCATIONAL PROGRAM

Single Copy \$5.00

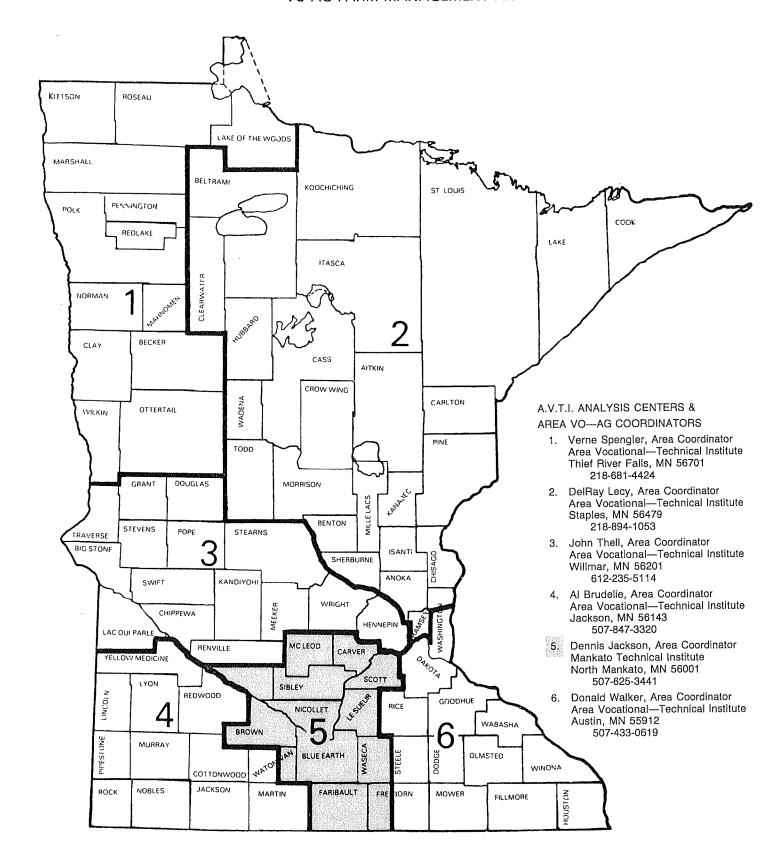
ANNUAL VOCATIONAL AGRICULTURE FARM MANAGEMENT PROGRAM REPORT MANKATO AREA OF SOUTHERN MINNESOTA

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TABLE OF CONTENTS

	Introductioniⅈ
	Schools Participatingiii
	Table 1-Summary of Farm Inventories1&2
	Table 2A-Summary of Cash Receipts3
	Table 2B-Summary of Cash Expenses4
	Table 3-Summary of Farm Earnings-Enterprise Statement5
	Table 4-Operator's Household Expense6
	Table 5-Operator's Net Worth Statement
	Table 6A-Operator's Share of Cash Receipts10
	Table 6B-Operator's Share of Cash Expenses11
	Description of Management Factors12
	Table 8-Measures of Organization and Management
	Thermometer Chart
	Table 9-Distribution of Acres and Crop Yields
	Explanation of Crop Analysis-Table 1016
	Table 10-Crop Data for Oats17
	Table 10-Crop Data for Spring Wheat18
	Table 10-Crop Data for Winter Wheat & Dry Edible Beans
	Table 10-Crop Data for Canning Corn20
	Table 10-Crop Data for Corn-Grain21
	Table 10-Crop Data for Soybeans22
	Table 10-Crop Data for Canning Peas23
	Table 10-Crop Data for Alfalfa Hay24
	Table 10-Crop Data for Alfalfa Estab, Other Legume Hay & Grass Hay25
	Table 10-Crop Data for Oat Hay, Wild Hay & Oat Silage26
	Table 10-Crop Data for Corn Silage27
	Table 10-Data for Till Pasture, Non-Till Pasture & Land Rented Out28
	Table 10-Crop Data for Set Aside Acres (including CRP)
	Description-Costs and Returns from Livestock
	Table 11A-Costs and Returns from Complete Hog Enterprise31
	Table 11B-Costs and Returns from Finishing Hogs32
	Table 11C-Costs and Returns from Weaning Pig Production
,	Table 11D-Costs and Returns from Mixed Hog Enterprise
	Table 12-Costs and Returns from Dairy Cows
	Table 13-Costs and Returns from Other Dairy Cattle
	Table 14-Costs and Returns from All Dairy Cattle
	Table 15A-Costs and Returns from Beef Breeding Cattle
	Table 15B-Costs and Returns from Beef Feeders
	Table 16A-Costs and Returns from Sheep, Farm Flock40
	Average Prices for Farm Grown Feeds & Other Non-Cash Costs41
	Explanation of Work Units and Animal Units42
	Summary of Miscellaneous Items by Years43
	Graph-Range in 1987 Labor Earnings44
	Setting Farm & Family Goals45
	A Comparison of Selected Items by Years46
	Comparison of Selected Items by Years (continued)47
	KEY TO COLOR CODE
WHI	I
	DENROD Inventory & Earnings Statements on the Whole Farm Basis
PIN	
	Net Worth and Farm Earnings
GRE	•
YEL	OW Livestock Costs and Returns

VO-AG FARM MANAGEMENT AREAS



Introduction

Adult Farm Business Management Education programs have been part of the public school vocational agriculture offerings since 1952. From the early cooperative efforts of the State Board of Vocational Technical Education, Department of Agricultural Education (U of Minn) and the Department of Agricultural Economics (U of Minn), the program has expanded to serve over 5000 farm families in six regional farm management areas. Programs are now cooperatively managed by the State Board of Vocational Technical Education, through the Technical Institutes and local school districts.

From the very beginning the purpose of the farm management education part of the adult agriculture program was to help farm families achieve their farm business and family goals through improved management, organization and efficiency of their farms. The purpose has not changed.

To accomplish the purpose, programs have been organized to generally conform to the following guidelines:

- Farmers enroll in a specific farm management course.
- 2. Each course has a specific major objective and specific units of instruction to meet the objective.
- 3. Courses are offered in sequence, and farmers are expected to enroll in the first course and follow the sequence. They may continue enrollment in the advanced courses as long as they desire.
- 4. There is continuity between the courses; each one leads to the other.
- 5. Part of the instruction is done on the farm with the individual farm family.

Most programs organize their courses around the same central themes.

They are:

Year 1 - Farm business records and accounts.

Year 2 - Farm business analysis and evaluations.

Year 3 - Farm business organization.

Advanced (for students who have completed years 1, 2, and 3). In the advanced series of classes and on-farm instructional visits the major emphasis is on evaluating the business, examining alternatives and continuing the reorganization of the resources used in the business.

Like most education programs, enrollees benefit from the instruction in relation to how much effort they put into study. But there have been some research studies that show that on the average, enrollees get some exciting results.

Of course, some farmers may have benefited more, and some less, depending upon how seriously they studied the results of their business analysis and the kind of decisions they made as a result of the study.

This summary of farm records for the South Central Minnesota area served by the Mankato Technical Institute shows the results of the analysis of farm businesses enrolled in management education programs for 1987. Study the results carefully so you can use this information to improve agriculture in your area and in your business.

Schools Participating

The following tabulation indicates the schools and the names of the farm management instructors who have submitted records for analysis as of March 15, 1988:

Class Location

Alden

Glencoe Tech. trat. of Unterimon

Madelia

Mankato Technical Institute

Mankato Technical Institute

M1(Montgomery

New Prague

New Richland

Viking Cooperative Center, New Ulm

New Ulm

Nicollet

Sleepy Eye

Springfield

Waseca

Watertown

Wells

Sibley County Vocational Center, Winthrop

Fairfax, & Gaylord

Instructor

Curt Sheely (part-time)

Kenneth Stenzel

Joel Larson

Charles Worm & David Pace

Paul Callanan

Lyle Phelps Dunio Kelly Ira Beckman

John Gintner

Mark Worthley.

Larry Klingbeil

Pete Neigebauer (part-time)

Robin Schweiger

Dan Persons

John Woodford (part-time)

Norman Bohmbach

Vernon Yetzer

Jeff Vogelsang (Assisted by Arnold Carlson)

Brad Augustin

Gary Fokken (part-time)

Post High School Production Agriculture Programs

Mankato Technical Institute

Jeff Vogelsong Francis Haines

Boyd Fuller

Waseca UMW

Items	Average	of 291 Farms
1. Size of Farm ((Total Acres) 2. (Tillable Acres)	.40 37	
3. Work Units (Crops) 4. (Livestock) 5. (Other)	171 267 16	•51
6. Total Size of Business in Work Units7. Number of Workers8. Farm Capital Investment per Worker	455 1 312,	.55
8a. Farm Capital Investment per Work Unit 9. PRODUCTIVE LIVESTOCK		063 Dec: 31
10. Dairy Cows 11. Other Dairy Cattle 12. Beef Breeding Cattle 13. Beef Feeder Cattle 14. Hogs 15. Sheep (Including Feeders) & Goats 16. Poultry - all Types 17. Other Livestock	\$ 14,707 8,742 780 4,726 15,682 25 51 139	\$ 15,727 9,118 909 6,092 15,423 57 47 210
18. Total Productive Livestock	\$ 44.852	\$ 47,583
19. CROP, SEED, FEED, AND SUPPLIES	\$ 44,372	\$ 58,029
20. POWER, MACHINERY & EQUIPMENT 21. Auto & Truck (Farm Share) 22. Power & Machinery 23. Irrigation Equipment 24. Custom Work Equipment 25. Livestock Equipment 26. Total Power, Mach. & Equip.	\$ 3.047 28.065 184 553 6.402 \$ 38.251	\$ 3,787 27,823 166 482 6,817 \$ 39,075
27. LAND 28. BUILDINGS - FENCES - ETC.	\$ 302,585 \$ 45,071	\$ 304,916 \$ 42,811
29. TOTAL FARM CAPITAL	\$ 475,131	\$ 492,414
30. INCREASE OR DECREASE IN TOTAL FARM CAP	ITAL	\$ 17.282

^{*}Table 1 lists the categories of farm capital for the average of 291 farms and for the 58 most profitable and 58 least profitable farms. These averages include the landlord's share of the investment for rented farms.

Livestock, Crops, Seed, and Feed reflect a conservative market price at the time the inventory is taken.

Machinery, Equipment, and Building values reflect cost less depreciation. <u>Land is valued at cost rather than present market value</u>.

Items		58 Most Profi Farms	table	58 Least Pro Far	A SHOW OF STREET SHOWS AND ASSESSMENT
1. 2. 3. 4. 5. 6. 7. 8. 8.	Size of Farm (Total Acres) (Tillable Acres) Work Units - (Crops) (Livestock) (Other) Total Size of Business in Work Units Number of Workers Farm Capital Investment per Worker Farm Capital Investment per Work Unit	607.6 577.9 261.49 360.91 27.55 649.94 1.77 \$ 410,070 \$ 1,177		273 246 120. 169. 18. 309. 1. \$ 264.3 \$ 1,1	.6 48 93 98 40 32
9. 10. 11. 12. 13. 14. 15. 16. 17. 18.	PRODUCTIVE LIVESTOCK Dairy Cows Other Dairy Cattle Beef Breeding Cattle Beef Feeder Cattle Hogs Sheep (Including Feeders) & Goats Poultry - All Types Other Livestock Total Productive Livestock GROP, SEED AND FEED	8,328 321 9,556 30,831 525 \$ 65,143 \$	15,900 9,964 375 12,954 30,562 726 70,482	\$ 10,409 \$ 6,603 1,105 4,746 7,044 20 46 \$ 29,973 \$	Dec. 31 10,339 5,829 1,258 4,843 6,537 100 28,905
20. 21. 22. 23. 24. 25. 26.	POWER, MACHINERY & EQUIPMENT Auto & Truck (Farm Share) Power & Machinery Irrigation Equipment Custom Work Equipment Livestock Equipment	44,870 8,953 \$ 57,715 \$	44,593 9,089 58,358	20,409 480 5,221 6 28,645 \$	373 6,113
28.				\$ 31 , 227 \$	
29. 30.	TOTAL FARM CAPITAL INCREASE OR DECREASE IN TOTAL FARM CA				349,707 1,656

Other measures of farm size listed in lines 1 through 8 are helpful in describing the farms included in this farm management report.

Size as measured by acres for individual farms varied from less than 100 to over 1600 acres.

Work units provide a measure of the work load as indication of size. A clue to the farm organization is indicated by the distribution of work between crops and livestock.

The number of workers listed on line 7 includes the operator(s), hired labor, and unpaid family labor as well as the labor portion of custom work hired.

TABLE 2	NA - WHOLE FARM SUMMARY OF CASH RECEIPTS - 19	87 Average	58 Most	58 Least
Items		of291 Farms	Profitable Farms	
	TALL DESCRIPTION OF TALL COMPANY DESCRIPTION OF TALL COMPANY O	1 41 III 3 (1)		
2.	CALE OF LIVESTOCK & LIVESTOCK PRODUCTS Dairy Cows	\$ 3,497	\$ 4,721	\$ 2,767
3. 4.	Dairy Products Other Dairy Cattle	2,362	35,923 2,422	23.589 1.598
5. 6.	Beef Breeding Cattle Beef Feeder Cattle	199 7 .9 78	75 16 , 671	71 8,417
7. 8.	Hogs Complete & Mixed Hogs Finishing	23,256 16,177	50,205 26,448	4,867 8,777
9. 10.	Hogs Producing Weaning Pigs Sheep, Goats & Wool, Farm Flock	2,174 23	2,911	3,858 3,3
11. 12. 12.	Sheep & Wool, Feeder Lambs Chickens (Including Hens & Broilers)	50		32
13. 14.	Turkeys Eggs	134		512
15. 16.	Other Productive Livestock & Products Other Miscellaneous Livestock Income	217 131	969 102	38
17.	Total Sales of Productive Livestock	\$ 91,274	\$ 140 . 447	\$ 54 , 530
	SALE OF CROPS Wheat	\$ 590	\$ 674	\$ 278
19A 20.	Durum Other Small Grains	182	61	302
21. 22.	Corn Soybeans	25,154 23,166	46,194 38,898	14,367 14,415
22A. 23.	Sunflowers Other Row Crops	1,900	3,018	2,156
24. 25.	Legumes & Other Forage Grass Seed	342 101	302 506	- 620
26. 27.	Fruits & Nuts Vegetable Roadside Market & Specialty	226		805
28. 29.	Nursery, Timber & Other Set Aside Acres-Government Payments	84 21 , 465	103 37,191	162 10,520
29A. 29B.	PIK Acres Sale of Crops & Supp. Purch. for Resale		18,099	4,838
30.	Total Sales From Crops	\$ 82 , 139	\$ 145,047	\$ 48,465
31.	Capital Assets Sold (Auto/Trk./Mach.)	\$ 566		\$ 268
31A.	Capital Assets Sold (Bldg. & Imprvmts.) Capital Assets Sold (Land)	699 532	1,414	
31B. 32.	Gas Tax Refund Income From Work Off the Farm	25 1,879	2 <i>3</i>	20 1,661
33. 34.	Custom Work Enterprise Income	946 1,491		934
35. 36.	Patronage Funds Miscellaneous Farm Income	4,082		2,172
37.	Total Farm Sales	\$183,634	\$ 303,612	\$ 109,477
38.	Increase in Farm Capital	\$ 17,282 517	\$ 37,014 536	\$ 1,656 324
39.	Family Living From the Farm			
40.	TOTAL FARM RECEIPTS (37)+(38)+(39) Table 2A provides a listing of the source	φΖυΙ,433 s of cash inc	ome. The lar	dlord's share

Table 2A provides a listing of the sources of cash income. of crops and other items is included.

	2B - WHOLE FARM	SUMMARY OF CASH I	EXPENSES - 198	Average	58 Most Profitable	58 Least Profitable
Items	Francisco (1986)			. + of291 Farms	Farms	Farms
1. · · · · · · · · · · · · · · · · · · ·	PURCHASE OF LIVE Dairy Cows	STOCK		\$ 5 <u>12</u>	\$. 379	\$ 140
3. 4.	Other Dairy C Beef Breeding Beef Feeder C	Cattle -		283 ** 17. 3,432		291 3,464
5. 6. 7.	Hogs Complete Hogs Finishin	e & Mixed		921 3 , 558	1,465 3,202	299 3,478
- 8. 9.	Hogs Producir Sheep & Goats Sheep & Feeds			234 19	456 Santa da Santa da Santa Santa da Santa da S	109 49
10. 11. 12.		luding Hens & Br	oilers)	48		eta
13. 14.	Miscellaneous Li		ed for Resale	61 5,858 9,326	241 7,521 19,411	3,875 5,020
14A. 15.	Feed Bought	'Supplies Purchas		23,047	37,059	13,309
16. 17.	Fertilizer Chemicals			7,511 5,685 8,459	11,979 10,042 13,801	4,568 3,451 5,168
18. 19. 20.	Other Crop Exper Irrigation Opera Custom Work Ente		ts. Incl. Lab	17 or 340		391
21. 22.	Custom Work Hire Repair & Upkeep	ed of Livestock Equ ep of Farm Real E	ipment State	3,380 1,952 1,413	4,020 2,838 2,198	3,072 1,204 1,263
23. 24. 25.	Gas, Diesel & Lu Repair & Operat	ibricants Bought ion of Mach.,Trac	(Farm Share)Truck,Auto	4,243 7,096	5,906 9,797	3,129 5,741
26. 27.	Repair & Upkeep Repairs - Custon Wages of Hired	of Irrigation Eq n Work Enterprise Tabor	ruipment	5 164 4,620	6,323	12 14 2,538
28. 29. 30.	Personal Proper General Farm Ex	ty & Real Estate pense	Taxes	4,269 2,652	7,009 3,452	2,371 2,330
31. 32. 33.	Telephone Expense Electricity Expense TOTAL CASH O	se (Farm Share) ense (Farm Share) PERATING EXPENSE		395 2,539 \$ 102,056	530 3,476 \$ 159,207	343 1,748 \$ 67,380
34. 35.	Power, Crop & G Irrigation Equi	eneral Mach. Boug pment Bought	tht (FS)	\$ 11,082 49	\$ 16,400	\$ 5,680 4 12
36. 37.	Custom Work Equ Livestock Equip		5.	99 2,496 4,589	3,323 7,415	2,495 3,546
38. 38A. 39.	New Real Estate TOTAL FARM P	- Land URCHASES (33) THI		2,953 \$ 123,324	6,070 \$ 192,414	1,705 \$ 80,821
40. 41. 42.	Decrease in Far Interest on Far Unpaid Family L	m Capital (7% Op _l	port. Chg.)	\$ 33.864 \$ 358	\$ 50,808 \$ 65	\$ 24,422 \$ 477
43. 44.	Labor Charge fo Board Furnished	r Partners & Oth Hired Labor		983 \$ 133	2,159 \$ 194	917 \$ 22 \$ 106,659
45. 46.	Return to Oper.	XPENSE (39) THRU Labor & Mgmt A/40)-(45)	(44) Single Oper.	\$ 158,662 \$ 42,771	\$ 245,640 \$ 95,522	\$ 100.099 \$ 4.798
47. 48.	Number of Opera Full Time Opera	tors tor Equivalents		1 1.15	1 1.35	1 1.12
49.	Return to Oper. Operator Equ	Labor & Mgmt ivalent	Full lime	\$ 38,047	\$ 72 , 356	\$ 5,103

TABLE	3 - SUMMARY OF FARM EARNINGS (ENTERPRISE STA			FO 1 +
Items			58 Most Profitable	的复数形式 医多种性性 医多种性性 医多种性性 医多种性性
		Farms	Farms	Farms
1.	RETURNS AND NET INCREASES			
2.	Productive Livestock		en e	
3.	Dairy Cows	\$ 34,207		\$ 22,665
4. 5.	Other Dairy Cattle Beef Breeding Cattle	8,259 531	9,441 4 298	4,939 604
6.	Feeder Cattle	5,456	11,667	4,117
7.	Hogs, Complete & Mixed	.22,627 9,124		4,137 4,588
8. 9.	Hog Finishing Enterprise Producing Weaning Pigs	5,042		
10.	Sheep & Goats	37		36
11. 12.	Sheep, Feeder Lambs Chickens (Including Hens & Broilers)	134		496
13.	Turkeys			
14. 15.	Other Productive Livestock TOTAL ALL PRODUCTIVE LIVESTOCK	154 \$ 85,571	727 \$ 132,688	\$ 46,041
15. 16.	Value of Feed Fed to Livestock		minus52,107 m	
17.	Return Over Feed From Livestock	49,167	80,580	22,991
18. 18A.	Crop, Seed & Feed Crops & Supplies Purchased for Resale (Net)	78,410 (-397)	134,444 (-1,312)	42,883 (-182)
19.	Cooperative Patronage Refunds	1,491	1,601	818
20. 21.	Miscellaneous Farm Income Custom Work Enterprise	4,082 27 <i>3</i>	8,814	2,172 411
21.	Custom work Enterprise			
22.	TOTAL RETURNS & NET INCREASES	\$ 133,033	\$ 224,127	\$ 69,092
23.	EXPENSES & NET DECREASES			
24. 25.	Truck & Auto (Farm Share) Tractors & Crop Machinery	\$ 5,133 17,907	\$ 6,565 24,962	
25 . 26.	Irrigation Equipment	/2		16
27.	Electricity	2,539 2,565	3,476 6,214	1,748
28. 29.	Livestock Equipment Buildings, Fences & Tiling	7,654	10,942	4,715
30.	Bare Land	5.050	7 501	2 075
31. 32.	Miscellaneous Livestock Expense Labor - Paid, Unpaid, Custom. Wrk. (Excl. Cust	5,858 5,858 (5,770 (5,770 (5,770 (5,770 (5,770 (5,770 (5,770 (5,770 (5,770 (5,770 (5,770 (5,770 (5,770 (5,770 (5,770	7,521 4,969	3,875 2,342
33.	Labor Charge for Other Operator(s)	983	2,159	917
34.	Property Tax	4,269 2,652	7,009 3,452	2,371 2,330
35. 35A.	General Farm Expense Telephone Expense	395.	530	343
36.	Interest on Farm Capital (7% Opport. Chg	.) 33,864	50,808	24,422
37.	TOTAL EXPENSES & NET DECREASES	\$ 90,261	\$ 128,605	\$ 64,294
38.	RETURN TO OPER. LABOR & MGMT. (SINGLE OPER.) \$ 42 . 771		\$ 4,798
<i>39</i> .	Number of Farm Operators	$1 \\ 1.15$	1 1.35	1 1.12
40. 41.	Full Time Operators Equivalents Retrn.Opr.Lbr.&Mgt./Full Time Operator	\$ 38,047		

Table 3 combines Tables 1, 2A & 2B. Cash receipts and expenses are adjusted for changes in inventory for each enterprise and for each category of expense in order to show a increases and net decreases. The resulting labor earnings are the same as those on Page 4.

TABLE 4 - HOUSEHOLD AND PERSONAL EXPENSES - 1987

Items			Average	High Per	Low Per
		rage of Farms	Per Adult Equivalent	Adult	Adult Equivalent
1. Number of Persons - Family 2. Number of Adult Equivalent - Family		4 3.0	4 3.0	4 3.2	4 2.9
3. Church & Welfare	\$	908	\$ 302.67	\$ 305.94	\$ 272.76
4. Medical Care & Health Insurance	Ψ	2,770	923.33	1,023.75	850.00
5. Food & Meals Bought		4,282	1,427.33	1,583.75	1,212.07
6. Operating Expense & Supplies		1,409	469.67	522.19	398 . 62
7. Furnishings & Equipment		1,606	535.33	556.56	503.79
8. Clothing & Clothing Materials		1,454	484.67 428.00	551.88 488.13	328.28 382.76
9. Personal Care, Personal Spending 10. Education		1,284 462	154.00	185.00	76.21
10. Education 11. Recreation		1,257	419.00	480.00	240.69
12. Gifts & Special Events		1,154	384.67	358.75	401.72
12A. Personal Interest		253	84.33	119.69	91.38
13. Personal Share Truck & Auto Expense		1,177	392.33	305.00	520.00
14. Operator Share Upkeep on Dwelling		27.5	91.67	119.38	144.83
14A. Cash Rent (Personal)		41 767	13.67 255.67	17.50 323.44	23.79 221.38
15. Personal Share Telephone & Electricity Expense 15A. Personal Share - General Farm Expense		707 92	30.67	21.25	39.31
16. TOTAL CASH LIVING EXPENSE	\$	19,189	\$ 6,396.33	\$ 6,962.19	\$ 5,707.93
17. Personal Share New Truck and Auto	\$	905	\$ 301.67	\$ 240.31	\$ 338.62
18. New Dwelling Bought		1,943	647.67	165.31	904.48
19. Taxes and Other Deductions		2,941	980.33	1,411.56	487.24
20. Life Insurance	4	1,306	435.33	503.44	
21. TOTAL HOUSEHOLD & PERSONAL (16) THRU (20)	\$	26,283 532	\$ 8,761.00	\$ 9,283.13 212.50	\$ 7,811.72 124.83
22. TOTAL FAMILY LIVING FROM THE FARM (33) 23. TOTAL CASH & NON-CASH EXPENSES (21)+(22)	\$	26,816	177.33 \$ 8,938.67		
23. TOTAL CASH & NON-CASH EXPENSES (21)+(22) 23A. Paid on Personal Debt	Ψ \$	543	\$ 181.00	一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。一种有效的。<	\$ 146.55
23B. Savings & Investments (Excl. Life Insurance)	T	749	249.67	213.75	82.76
23C. TOTAL CASH/NON-CASH FUNDS FOR PERSONAL USE	\$	28,108	\$	\$	\$
24. FAMILY LIVING	FROM	THE FARM			
			Operator's	Operator's	Operator's
25.	(Quantity	Share	Share	Share
26. Milk and Cream (Quarts)		260	60	44	59
27. Beef and Buffalo (Pounds)		577	382	464	234
28. Pork (Pounds)		189	86	172	66
29. Lamb, Mutton, Goat (Pounds)		- 1,	1		3
30. Poultry, All Fowl (Pounds)		4 1	3 1		
31. Eggs (Dozen)		1	T		
32. Vegetables, Fruits, Spuds, Other Produce & Fuel					

Household and personal accounts are important if the family is to manage its financial affairs wise The household and personal expenses and receipts are presented in Table 4.

Table 4 averages include only those farms where complete household and personal accounts were kept. Farms included in other tables may not be included in Table 4 averages.

TABLE 5 - STATEMENT OF FINANCIAL POSITION - OPERATOR - 1987

tems		LIABILITIES Ave Jan.	erag	ge of 289	
1. 2. 3. 4. 5. 6.	Total Productive Livestock Crop, Seed & Feed Total Power, Machinery & Equipment Land (Acres Owned 176.3) (Tillable 151.7) Buildings, Fences, Etc. TOTAL FARM CAPITAL	\$ 41,146 42,236 36,85 120,266 41,90 \$ 282,40	6 7 0 2		\$ 44,009 55,255 37,754 123,086 39,999 \$ 300,104
7. 7A. 7B. 8. 9.	Non-Farm Assets Cash on Hand & in Bank Non-Farm Real Estate Dwelling TOTAL ASSETS	\$ 32,08 8,98 2,96 21,53 \$ 347,97	4 5 8		\$ 33,843 9,972 3,446 22,682 \$ 370,048
0. 1. 2. 3. 4.	Real Estate Mortgages Chattel Mortgages Notes Accounts Payable TOTAL LIABILITIES	\$ 106,23 48,42 18,92 2,58 \$ 176,16	1 8 5		\$ 105,182 44,678 17,863 2,268 \$ 169,991
5.	FARMER'S NET WORTH	\$ 171,81	4	11.00	\$ 200,056
6.	GAIN (OR LOSS) IN NET WORTH				\$ 28,242
***	********************	*******	***	*****	*******
7. 8. 9. 20. 21. 22. 22A. 23.	Supplementary Management Information Return to Operator's Labor and Management (6B//47) Return to Capital & Family Labor (6B/48) Non-Farm Income Outside Investment Income Other Personal Income & Income Tax Refund Sale of (P.S.) Dwelling, Auto & Truck TOTAL NON-FARM INCOME TOTAL FAMILY FARM & NON-FARM INCOME		\$ \$ \$	39,962 46,193 1,020 7,172 330 8,522 54,715	
7. 8. 9. 20. 21. 22.	Supplementary Management Information Return to Operator's Labor and Management (6B//47) Return to Capital & Family Labor (6B/48) Non-Farm Income Outside Investment Income Other Personal Income & Income Tax Refund Sale of (P.S.) Dwelling, Auto & Truck TOTAL NON-FARM INCOME		\$ \$ \$ \$ \$	39,962 46,193 1,020 7,172 330 8,522	**************************************

^{**} Items 1-5 show the distribution of capital invested by the operator in the farm business. All assets are based upon the modified cost (cost minus depreciation). Land may have been adjusted to reflect long term changes in value.

The net worth statement presents a picture of the financial structure of the operator's share of the farm business at the beginning and at the end of the year. The gain or loss in net worth is a dollar measure of progress. This statement, accurately kept over a period of years, is one of the best measures of financial progress.

Table 5 is the average of only those farms with complete net worth data. Farms included in other tables may not be included in the Table 5 averages.

TABLE 5 - STATEMENT OF FINANCIAL POSITION - OPERATOR - 1987

FOR T	HOSE FARMS WITH A COMPLETE RECORD OF ALL ASSETS AND LIAD		h Profit Farms Dec. 31
1. 2. 3. 4. 5. 6.	Total Productive Livestock Crop, Seed & Feed Total Power, Machinery & Equipment Land (Acres Owned 220.7) (Tillable 202.5) Buildings, Fences, Etc. TOTAL FARM CAPITAL \$	61,167 63,540 56,810 154,938 58,270 394,725	\$ 68,730 89,566 57,701 164,375 55,668 \$ 436,041
7. 7A. 7B. 8. 9 10. 11. 12. 13.	Real Estate Mortgages Chattel Mortgages Notes Accounts Payable	41,073 9,332 8,264 28,688 482,082 158,365 87,729 34,562 3,344 283,999	\$ 42,220 11,846 7,685 28,758 \$ 526,550 \$ 154,240 77,939 28,822 2,444 \$ 263,446
15.	FARMER'S NET WORTH \$	198,083	\$ 263,104
16.	GAIN (OR LOSS) IN NET WORTH		\$ 65,022
17. 18. 19. 20. 21. 22. 22A. 23. 24.	Supplementary Management Information Return to Operator's Labor and Management (6B/47) Return to Capital & Family Labor (6B/48) Non-Farm Income Outside Investment Income Other Personal Income & Income Tax Refund Sale of (P.S.) Dwelling, Auto & Truck TOTAL NON-FARM INCOME TOTAL FAMILY FARM & NON-FARM INCOME	\$ \$ \$ \$	91,296 95,143 1,078 6,014 36 7,128 102,271
25. 26. 27. 28.	TOTAL MONEY BORROWED (BUSINESS & PERSONAL) TOTAL PAID ON DEBT (PRINCIPAL - BUSINESS ONLY) TOTAL CASH/NON-CASH EXPENSE/PERSONAL USE (4/23C) Ratio: Total Farm Expenses to Receipts (0.S.)	\$ \$. \$	70,984 92,250 29,615 .720
29. 30. 31. 32. 33*. 34. 35. 36. 37.	Ratio: Total Assets to Total Liabilities Ratio: Non-Real Estate-Assets/Non-Real Est. Liabil. Ratio: Real Estate Assets to Real Estate Liabilities Ratio: Net Worth to Total Liabilities Ratio: Cash Operating Expenses to Adjusted) \$ \$	Dec. 31 1.999 2.473 1.663 .999 .697 .475 .784 1.127 1.229 1,194 ssets

^{**} Items 1-5 show the distribution of capital invested by the operator in the farm business. All assets are based upon the modified cost (cost minus depreciation). Land may have been adjusted to reflect long term changes in value.

The supplementary information listed in Table 5 is helpful in studying the financial structure of the farm. All figures are presented on the operator's share only basis.

The ratio of expense to income is a way of expressing the so-called margin. It answers

the question, "How many dollars does it cost me to take in \$100?"

TABLE 5 - STATEMENT OF FINANCIAL POSITION - OPERATOR - 1987

Items	CHOSE FARMS WITH A COMPLETE RECORD OF ALL ASSETS AND LIAD			arms Dec. 31
1. 2. 3. 4. 5.	Total Productive Livestock \$ Crop, Seed & Feed Total Power, Machinery & Equipment Land (Acres Owned 136.7) (Tillable 120.5) Buildings, Fences, Etc. TOTAL FARM CAPITAL \$	29,456 25,326 27,773 119,803 27,767 230,125		27,973 27,870 28,187 121,538 27,267 232,834
7. 7A. 7B. 8. 9 10. 11. 12. 13.	Real Estate Mortgages Chattel Mortgages Notes Accounts Payable	24,661 6,232 3,134 16,709 280,861 92,639 39,352 17,002 4,349 153,343	\$	24,966 6,378 5,618 17,826 287,621 96,039 36,826 17,177 4,260 154,303
15.	FARMER'S NET WORTH \$ GAIN (OR LOSS) IN NET WORTH	127,518	\$ \$	133,319 5,800
17. 18. 19. 20. 21. 22. 22A. 23. 24.	Supplementary Management Information Return to Operator's Labor and Management (6B/47) Return to Capital & Family Labor (6B/48) Non-Farm Income Outside Investment Income Other Personal Income & Income Tax Refund Sale of (P.S.) Dwelling, Auto & Truck TOTAL NON-FARM INCOME	\$ \$ \$	5,104 10,230 571 9,755 1,414 11,740	
25. 26.	TOTAL FAMILY FARM & NON-FARM INCOME	\$	21,970	
20. 27. 28.		The state of the s	21,970 44,579 42,697 20,519 .955	Dec. 3

^{**} Items 1-5 show the distribution of capital invested by the operator in the farm business. All assets are based upon the modified cost (cost minus depreciation). Land

may have been adjusted to reflect long term changes in value.

The ratio of assets to liabilities indicates the degree of solvency at the beginning and end of the year. This ratio is often referred to as the "Net Capital Ratio". It answers the question, "How many dollars of total assets do I have to cover each dollar of

The ratio of Farm Receipts to Farm Capital indicates the rate of capital turnover.

TABLE 6A - OPERATOR'S SHARE OF CASH RECEIPTS - 1987

Items			Average of291 Farms		58 Most rofitable Farms		58 Least rofitable Farms
1.	SALE OF LIVESTOCK AND LIVESTOCK PRODUCTS						
2.	Dairy Cows	\$	3,147	\$	3,505	\$	2,599
3.	Dairy Products		33,131		36,904		21,544
4.	Other Dairy Cattle		2,104 130		1,771 25		1,851 361
5. 6.	Beef Breeding Cattle Beef Feeder Cattle	1	6,533		12,786		7,575
7.	Hogs Complete & Mixed		21,679		47,778		9,184
8.	Hogs Finishing		15,264		21,349		8,758
9.	Hogs Producing Weaning Pigs		2,125		2,051		2,794
10.	Sheep, Goats & Wool, Farm Flock		17				3
11.	Sheep & Wool, Feeder Lambs						
12.	Chickens (Including Hens & Broilers)		8				27
13.	Turkeys		107				F00
14.	Eggs		134 217		969		500
15.	Other Productive Livestock & Products Other Miscellaneous Livestock Income		217 131		208		38
16.	Other Miscernameous Livestock income		101		2.00		
<i>17</i> .	TOTAL SALES OF PRODUCTIVE LIVESTOCK	\$	84,620	\$	127,346	\$	55 , 234
18.	SALE OF CROPS						
19.	Wheat	\$	570	\$	657	\$	324
19A.	Durum						
20.	Other Small Grain		172		60		306
21.	Corn		23,653		41,887		12,359
22.	Soybeans		21,425		36,917		12,976
22A.	Sunflowers		1 77/		3,181		1,152
23.	Other Row Crops		1,774 316		2,101 144		416
24. 25.	Legumes & Other Roughages Grass Seed		101		506		710
26.	Fruits & Nuts						
27.	Vegetables, Roadside Market & Specialty		226				805
28.	Nursery, Timber & Other		84				190
29.	Set Aside Acres - Government Payments		20,391		34 , 585		11,402
29A.	Sale of Crops & Supplies Purchased for Resa	le	8,746		18,933		3,864
30.	TOTAL SALES FROM CROPS & SUPPLIES	\$	77,458	\$	136,869	\$	43,795
J.,	TOTAL DANGE TROM CROID & COLLEGE	Ψ.		۲		Т	
31.	Capital Assets Sold (Auto/Truck/Mach.)	\$	519	\$	1,166	\$	292
31A.	Capital Assets Sold (Buildings & Imprvmnts.)	672		1,287		169
31B.	Capital Assets Sold (Land)		532		776		
32.	Gas Tax Refund		23		26		1 206
33 .	Income From Work Off the Farm		1,840 946		3,908 292		1,326 432
34. 35.	Custom Work Enterprise Income Patronage Refunds		1,453		1,922		756
36.	Miscellaneous Farm Income		3,912		7,771		2,604
37.	TOTAL FARM SALES	\$	171,978	\$	281,363	\$	104,613
38.	Increase in Farm Capital	\$	17,631	\$	40,599	\$	1,741
39.	Family Living From the Farm		482		544		365
40.	TOTAL FARM RECEIPTS (37)+(38)+(39)	\$	190,091	\$	322,506	\$	106,719
41.	Adjusted Total Farm Sales (37)-(31)	¢	170,254	.	278,134	. ¢	104,152
42.	Total Cash Farm Operating Expense (6B/35)		123,400		195,396	\$	81,968
43.	Net Cash Operating Income	¢	46,853	\$	82,738	¢	22,184

Table 6A is derived the same way as Table 2A with the exception of the landlord's share which is left out. For the owner-operator, Table 2A and 6A are the same.

																		-		

[tems		Average of291 Farms	58 Most Profitable Farms	P	58 Leas rofitab <u>Farms</u>
1.	PURCHASE OF LIVESTOCK	1			2000
2.	Dairy Cows	\$ 485	\$ 379	\$	125
3.	Other Dairy Cattle	242	146		243
4.	Beef Breeding Cattle	14	9		9
5.	Beef Feeder Cattle	2,638	4,677		3,376 323
6.	Hogs Complete	884 3.515	1,530 3,202		2,411
7.	Hogs Finishing	197	103		311
8. 9.	Hogs Producing Weaning Pigs Sheep, Farm Flock	197	105		711
o.	Sheep, Feeder Lambs				
1.	Chickens	2			
2.	Turkeys				
3 .	Other Productive Livestock	61	241		
4.	Miscellaneous Livestock Expense	5,536	7,160		3,828
4A.	Purchase of Crops/Supplies Purchased for Res.	ale 9,137	19,852		3,635
5.	Feed Bought	22,096	35 , 759		14,884
6.	Fertilizer	7,112	11,232		4,425
7.	Chemicals	5,352	9,066		2,970
8.	Other Crop Expense	8,068	12,820		4,813
9.	Irrigation Operation Cost	17	0.0		67
0.	Custom Work Operator Costs, Including Labor	340	33		288
1.	Custom Work Hired	3,227	4,145		2,912
2.	Repair & Upkeep of Livestock Equipment	1,822 1,371	2,495 1,859		1,216 1,326
3.	Repair & Upkeep of Farm Real Estate	4,092	5,786		2,701
4. 5.	Gas, Diesel & Lubricants (Farm Share) Repair & Oper. of Mach., Tract., Truck,	4,092	2,700		2,,,01
•	and Auto (Farm Share)	6,770	9,120		5,222
6.	Repair & Upkeep of Irrigation Equipment	5	1.7.		12
7 .	Repairs, Custom Work Enterprise	160	63		14
8.	Wages of Hired Labor	4,576	6,312		2,864
9.	Personal Property & Real Estate Taxes	1,864	2,806		1,206
0.	Cash Rent	13,873	24,134		6,770
1.	General Farm Expenses	2,589	3,310		2,325
2.	Telephone Expense (Farm Share)	373	472		327
3.	Electricity Expense (Farm Share)	2,449	3,373		1,829
4.	Interest Actually Paid	14,515	25,312		11,536
5.	TOTAL CASH OPERATING EXPENSE	\$ 123,400	\$ 195 , 396	\$	81,968
6.	Power, Crop & Gen. Mach. Bought (F. Share)	\$ 10 , 646	\$ 15,199	\$	7,088
7.	Irrigation Equipment Bought	49			245
8.	Custom Work Enterprise Equipment Bought	99			12
9.	Livestock Equipment Bought	2,405	3,314		2,119
0.	New Real Estate - Buildings & Improvements	4,486	7,129		3,337
0A.	New Real Estate - Land	2,678	6,129		1,705
1.	TOTAL FARM PURCHASES (35) THRU (40A)	\$ 143 , 764	\$ 227,167	\$	96,47
2.	Decrease in Farm Capital				
3.	Interest on Farm Capital (7% Opport. Chg.)	5,873	3,765		4,668
4.	Unpaid Family Labor	358	82		458
5.	Board Furnished Hired Labor	133	197		-1

46.	TOTAL FARM EXPENSE (41) THRU (45)	\$ 1	50,128	\$ 231,211	\$ 101,614
47.	Return to Operator Labor & Mgmt.				
	(Operator's Share) (6A/40)-(46)		39,962	\$ 91,296	5,104
48.	Ret. to Capital & Family Labor (47)+(4	4)+(43) \$	46,193	\$ 95,143	10,230

Return to capital and family labor represents the amount available for debt service, living expense, and savings.

MEASURES OF FARM ORGANIZATION AND MANAGEMENT EFFICIENCY

The following explanations and definitions are for use in interpreting Table 8 and the Thermometer Chart on page 14.

- 1. Return to Labor and Management 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 2 and Table 3.
- 2. <u>Crop Yield Index</u> A measure of the crop yield level for all crops produced expressed as a percentage of the 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. <u>Gross Return per Acre</u> An additional measure of crop selection based on total production, times an average price for the crops, plus other crop income.
- 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 average and combines the individual livestock indexes into one figure.
- 6. <u>Livestock Units per 100 Acres</u> A measure of livestock density or population. Unit values are assigned to the various classes of livestock.
- 7. <u>Size of Business Work Units</u> A measure of the 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.
- 8. Work Units per Worker Measures labor efficiency. It is the total work units divided by the number of farm 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 23 through 29, 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 above average earnings, this may not be true when individual farms are considered. The inter-relationship of factors varies from farm to farm.

TABLE 8 - MEASURES OF FARM ORGANIZATION AND MANAGEMENT EFFICIENCY - 1987

	<u> 8 - MEASURES OF FARM ORGANIZATION AND MANAG</u>		1 ELLICIEN	$\cup I$	- 1907		
			Average		58 Most		58 Least
Items	1		of291		Profitable	è	Profitable
			Farms		Farms		Farms
1.	Return to Operator's Labor & Management	\$	42 , 771	\$	95 , 522		\$ 4 , 798
2.	Crop Yield Index	Ψ	99.5	Ψ	109.6		101.1
3 .	Percent Tillable Land in High Return Crop		88.6		93.1		83.4
4.	Gross Return per Tillable Acre		00.0		95•1		05.4
	(Excluding Pasture)	\$	308.37	\$	227.39	\$	209.39
5.	Return per \$100 Feed Fed Productive						
	Livestock Index		100.0		110.3		83.7
6*.	Livestock Units per 100 Acres		31.72		24.79		22.42
7.	Size of Business - Work Units		455.22		649.94		309.40
8.	Work Units per Worker		293.69		367.20		234.39
9.	Power, Machinery, Equipment, Building						
	Expense per Worker Unit	\$	117.10	\$	80.49	\$	137.51
0.	Farm Capital Investment per Worker	\$	312,111	\$	410,070	\$	264,302
***	**********	***	****	**	*****	***	******
80.	Number of Animal Units		119.58		143.26		55 . 53
1.	Work Units						
2.	Crops		171.59		261.49		120.48
3.	Productive Livestock		267.51		360.91		169.93
4.	Other Productive Work Units		16.12		27.55		18.98
+ •	other froudctive work onits		10.12		21 . 33		10.00
5.	Expenses per Work Units						
5.	Tractor & Crop Machinery Expense	\$	56.32	\$	38.41	\$	<i>68.39</i>
7.	Farm Share of Auto & Truck Expense		16.08		10.10		20.41
8.	Farm Share of Electric Expense		7.95		5.35		8. <i>6</i> 8
9.	Livestock Equipment Expense		13.05		9.56		16.62
0.	Building, Fence & Tiling Expense	\$	23.70	\$	17.07	\$	23.41
<i>0A</i> .	Other Expense per Work Units (Inc. Custom En	nt.)					
0B.	General Farm Tele/Other Utilities	,					
	Except Electricity	\$	6.69	\$	6.13	\$	8.64
0C.	Hired Labor		10.15		9.73		8.20
1**.	Tractor & Crop Machinery Expense per				,,,,		3.23
	Crop Acre		47.66		43.19		55.79
2.	Farm Power & Machinery Cost Allocation						
•	to Livestock	\$	3,139.43	\$	4,083.48	\$	2,109.28
3.	Building, Fence & Tiling Cost	4	3,13,1,13	Ψ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4	
		4	2 210 00	φ	4 000 00	φ	2,010.00
•	Allocation to Grops BCAF (4)	35	J•Z19.00	מו	4.044.00	vD.	Z • U L U • U U
4.	Allocation to Crops BCAF (4) *Acres include all tillable land, non-tilla	,	3,219.00 hav and pa		4,822.00 ire.	φ	2,010.00

Using your figures from page 13, 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 double lines across the center of the chart.

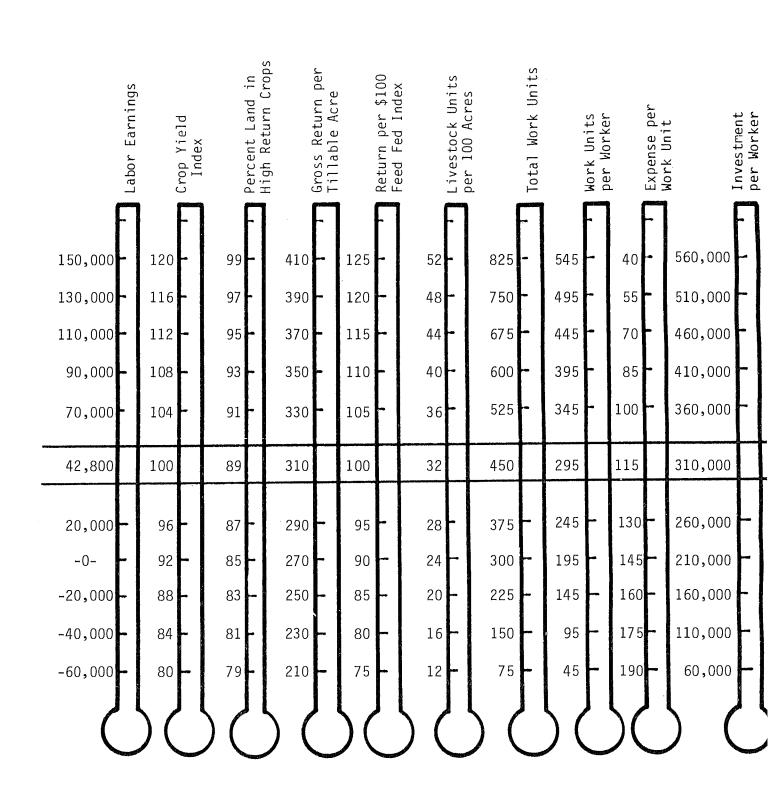


TABLE 9 - CROP DATA FOR MAJOR CROPS, DISTRIBUTION OF ACRES & YIELDS - 1987

	Average	58 Most	58 Least
Crop	of291	Profitable	Profitable
tal Small Grain & Canning Peas tal Row Crop tal Legumes, Including Seed tal Other Hay tal Silage & Fodder tal Tillable Pasture tal Grass Crops tal Commercial Vegetables tal Fallow & Idle Land tal Tillable Land tal Non-Tillable Hay/Pasture Id Hay Not Harvested (Non-Tillable) sture Not Harvested	Farms	Farms	Farms
	Acres	Acres	Acres
	7101.00		
Total Small Grain & Canning Peas	18.8	25 . 6	14.7
Total Row Crop	258.7	425.2	166.6
Total Legumes, Including Seed	27.0	25.0	22.8
Total Other Hay	1.0	.6	1.0
Total Silage & Fodder	9.9	7.0	6.2
Total Tillable Pasture	. 2		• 2
Total Grass Crops	. 2	• 4	,
Total Commercial Vegetables	• 2		• 9
Total Fallow & Idle Land	59.9	94.0	34.1
Total Tillable Land	375.7	577 . 9	246.6
Total Non-Tillable Hay/Pasture	1.2		1.1
Wild Hay Not Harvested (Non-Tillable)	1.2	. 4	1.0
Pasture Not Harvested	5.2	2.5	8.5
Timber Not Harvested	2.6	2.9	1.7
Roads & Waste	9.8	13.6	7 . 6
Farmstead	8.4	10.3	7.3
TOTAL LAND NOT HARVESTED	27.2	29.7	26.1
TOTAL NON-TILLABLE LAND	28.4	29.7	27.2
TOTAL LAND IN FARM OR RANCH	404.2	607.6	273.7

SUPPLEMENTARY MANAGEMENT INFORMATION

	291	58	58
	Average	High Earnings	Low Earnings
	All Farms	Farms	Farms
Percent Land Tillable Percent Land in High Return Crops *Fertilizer Cost per Acre *Crop Chemicals per Acre *Seed and Other Costs per Acre *Gas, Oil & Grease Bought per Acre *Repair and Maintenance Cost/Acre	93.0	95.1	90.1
	88.6	93.1	83.4
	\$ 18.17	\$ 18.13	\$ 16.93
	15.93	16.61	15.47
	24.59	25.66	23.63
	13.52	12.25	14.84
	\$ 22.48	\$ 20.24	\$ 27.05

*Tillable land minus tillable pasture, fallow and idle land.

	AV	ERAGE YIELDS	(From Ta	ble 10)		
		Number		Average	20%	20%
Crop	Acres	Recorded	Crop	All Farms	High	Low
•	Grown	Fields	Rank	Growing Crops	Return	Return
Corn	51,391.2 A	483	\boldsymbol{A}	143.0 bu.	163.6 bu.	111.1 bu.
Soybeans	49,348.8 A	447	A	44.0 bu.	51.3 bu.	32.7 bu.
Canning Corn	2,135.6 A	38	В	\$229.63	<i>\$300.52</i>	\$161.34
Corn Silage	2,699.9 A	133	B^{-}	19.1 T	25.0 T	12.2 T
Alfalfa Hay	9,384.0 A	240	B	4.2 T	5.9 T	1.7 T
Oats	3,216,4 A	172	D	49.3 bu.	79.0 bu.	21.0 bu.
Spring Wheat	2.631.4 A	118	D	30.3 bu.	48.7 bu.	15.5 bu.
Canning Peas	1,245.0 A	30	В	\$160.22	\$220.67	\$122.73

CROP TABLES - CROPS ANALYSIS

The Crop Analysis Table for each individual crop shows the yield, value per unit, crop product return, other crop income and total crop return.

Costs such as fertilizer, chemicals, seed and other, hired labor and custom work are costs that can be assigned to each individual crop in the account book. These costs are shown in the Crop Tables under the heading "Direct Costs".

"Allocated Costs" are a combination of cash and non-cash expenses and may be either calculated or assigned. A proportion of the total ownership and operation costs of power and machinery is calculated for each crop by using the work unit value for that crop. The farmer may modify this cost by assigning a specific power cost allocation factor (PCAF) for each crop. Land cost used is the fair rental value for land of similar type in the local area.

Other possible costs not included in item 31 "total listed costs per acre" are "utilities & other general farm expenses", item 33. A share of the total amount has been assigned to each crop by the use of the work unit value for each crop.

Where crops have been sold, and the crop has a per unit market price, the price received per unit and the quantity sold are shown in items 39 & 40.

TABLE	10 - CROP DATA FOR CATS - FEED - 1987			l	PER ACRE		100 (100 (100 (100 (100 (100 (100 (100
Items			Average of 172 Farms Raising Oats		Highest 34 Farms in Return Over Direct Costs		Lowest 34 Farms in Return Over Direct Costs
1.	Acres		18.7		14.7		18.9
2.	Yield		49.3		79.0		21.0
3.	Value per Production Unit \$		1.50	\$	1.40	\$	1.88
4.	Crop Product Return		73.90		110.68		39.47
5.	Other Crop Income (Straw, Insurance, Etc)		28.07		23.33		20.69
6.	TOTAL CROP RETURN \$		101.98	\$	134.01	\$	60.16
7.	DIRECT COSTS:		- 4-	4	0 57	a	
8.	Fertilizer \$		6.47	\$	8.57	\$	6.56
9.	Chemicals		.91		1.09 9.86		•48 10•53
0.	Seed	1	9.47 .21		9.00 .07		رر•10
0A.	Crop Drying		1.66		.07 1.84		1.43
0B.	Other Expense Special Hired Labor		.11		.48		+• (-)
1. 2.	Custom Work Hired		6.52		6.67		5.93
2. 3.	Irrigation Operation		0,0				
4.	TOTAL DIRECT COSTS \$		25.35	\$	28.57	\$	24.92
5 .	RETURN OVER DIRECT COSTS \$	}	76.63	\$	105.44	\$	35.24
6.	ALLOCATED COSTS:						
7 .	Farm Power & Machinery- Ownership \$,	15.67	\$	18.84	\$	11.32
8.	Farm Power & Machinery-Operation		17.49		17.07		15.82
9.	Irrigation Equipment-Ownership						
0.	Land Costs		63.32		72.86		54.60
1.	Miscellaneous Costs						
22.	*Interest on Mach.&Equip. Investment		3.53		4.22		2.70
!3.	TOTAL ALLOCATED COSTS \$	5	100.01	\$	112.99	\$	84.44
4.	RETURN OVER ALL LISTED COSTS \$	\$	(-23.37)	\$	(-7.55)	\$	(-49.21)
5.	SUPPLEMENTARY MANAGEMENT INFORMATION						
6.	Work Units Assigned per Acre		.30		.30		.30
7.	Power Costs Allocation Factor		.93		.92		.87
8.	Total Listed Cost/Unit of Production	father the	2.55		1.79	\$	5.21
9.	Return Over Listed Costs per Unit	Б.,	(47)		(10)	\$	(-2.34) 58.2 bi
0.	Breakeven Yield	.	41.03	эи . \$	101.1 b 44.59	u. \$	33.79
0A. 11.	Estimated Total Machines Costs/Acre \$TOTAL LISTED COSTS PER ACRE \$\foatime{TOTAL LISTED COSTS PER A	р \$	125.35			φ \$	109.37
	OFFICE POSSETDLE SOCIET NOW LEGGED						
2.	OTHER POSSIBLE COSTS NOT LISTED	đ	82.10	ď	56.80	\$	80.30
3.	Utilities & Other General Farm Exp. \$	Р	88.97	Ψ	87 . 18	Ψ	80.22
3A. ≀4.	Buildings, Fences & Tiling Costs Interest Allocation		99.71		J. • + Y		75 7 7 T
14. 15.	Other Costs Not Listed						
36 .	TOTAL COSTS						
) (AVERAGE PRICE RECEIVED PER UNIT SOLD	\$	1.59	¢	1.69	\$	3 . 25
39 . 10	QUANTITY SOLD (OPERATOR'S SHARE)	r			226.0 b	43944061	
<u>40.</u>	*Does not include interest on investment	r	in irriga	tioi	eauipment	or	

TABLE 10 - CROP DATA FOR SPRING WHEAT - 1987			PER ACRE					
Items			Average of 118 Farms Raising		Highest 23 Farms in Return Over Direc	t	Lowest 23 Farms in Return Over Direct	
			Wheat		Costs		Costs	
1.	Acres		22.3		15.8		24.9	
2.	Yield		30.3		48.7		15.5	
3.	Value per Production Unit	\$	2.45	\$	2.37	\$	2.40	
4.	Crop Product Return		74.26	1112	115.51		<i>37.31</i>	
5.	Other Crop Income (Straw, Insurance, Etc)		43.23		34.11		49.00	
<i>6</i> .	TOTAL CROP RETURN \$	5	117.49		149.62	\$	86.31	
7.	DIRECT COSTS:	; }	16 01	\$	18.86	\$	14.94	
8. 9.	Fertilizer Chemicals)	16.01 1.93	Ψ	10.00 1.52	₽	14.94	
9. 10.	Seed		12.47		14.24		12.61	
0A.	Crop Drying		.09					
10B.	Other Expense		2 . 56		1.46		1.57	
11.	Special Hired Labor		.27		. 63		.68	
12.	Custom Work Hired		5.20		4 . 68		6.14	
13.	Irrigation Operation					4	07 05	
14.	TOTAL DIRECT COSTS	\$	38.52	\$	41.39	\$	37 . 35	
!5.	RETURN OVER DIRECT COSTS	\$	78 . 97	\$	108.23	\$	48.96	
6.	ALLOCATED COSTS:						10 To	
17 .		\$	16.10	\$	16.08	\$	14.74	
8.	Farm Power & Machinery-Operation		17.26	T.	14.81		17.11	
19.	Irrigation Equipment-Ownership							
20.	Land Costs		67.17		80 . 63		60.88	
21.	Miscellaneous Costs							
22.	*Interest on Mach.&Equip. Investment		3.23		3.61		3.13	
23.	TOTAL ALLOCATED COSTS	\$	103.77	\$	115.13	\$	95.86	
24.	RETURN OVER ALL LISTED COSTS	\$	(-24.80)	\$	(-6.90)	\$	(-46.91)	
25 .	SUPPLEMENTARY MANAGEMENT INFORMATION							
26.	Work Units Assigned per Acre		.30		.30		.30	
27.	Power Costs Allocation Factor		.95				.92	
28.	Total Listed Cost/Unit of Production	11177.3						
29.	Return Over Listed Costs per Unit	\$			(14)	Ъ.	(-3.02)	
30 .	Breakeven Yield/Units of Production Estimated Total Machines Costs/Acre	ď	эв.1 д 40.06	200	66.0 bi 37.61	l. c	55.5 bu 39.08	
30A. 31.		P \$	142.29					
	OHURD ROCCESS E COME VOM TERME							
32.	OTHER POSSIBLE COSTS NOT LISTED	_ው	97 00	đ	65.30	ď	96.70	
33. 33A.	Utilities & Other General Farm Exp. Buildings, Fences & Tiling Costs	₽	107.32	φ	54.43	φ	104.47	
34.	Interest Allocation		107.02		> 7• 72		± ∨ (• ∃∀	
35 .								
36 .	TOTAL COSTS							
39.	AVERAGE PRICE RECEIVED PER UNIT SOLD	¢	3 <i>/</i> //	¢	5 47	¢	2.74	
39 . 40.	QUANTITY SOLD (OPERATOR'S SHARE)	Ψ.	J•44 483.0 b	Ψ - 111	281.0 h	Ψ 1.	352.0 bu	
. V •	*Does not include interest on investmen	###### 2015/06	. U = U D	sorial del		-74-7666 		

			Average of 11		Average of 5
ems			Farms		Farms
		5.5	Raising		Raising
1.	Acres		Winter Wheat 14.5		Dry Edib. 47.2
2.	Yield		24.3		33 . 3
	Value per Production Unit	5	2.22	\$	7.90
•	Crop Product Return		54.07		262.92
•	Other Crop Income		22.90		
•	TOTAL CROP RETURN \$	\$	76.97	\$	262.92
•	DIRECT COSTS:				
•	Fertilizer \$	\$	5.52	\$	6.85
•	Chemicals		3.59		23.16
•	Seed		10.69		35.28
1.	Crop Drying		E 70		F 0.5
₿.	Other Expense		5.79		5.85 .56
•	Special Hired Labor Custom Work Hired		.14		8.32
•	Irrigation Operation		4.4.7		0.52
•	TOTAL DIRECT COSTS \$	\$	25.72	\$	80.02
•	RETURN OVER DIRECT COSTS	\$	51.24	\$	182.90
i.	ALLOCATED COSTS:				
		5	15 . 93	\$	29.80
•	Farm Power & Machinery-Operation		18.34		30.00
	Irrigation Equipment-Ownership				
•	Land Costs		50.21		76.10
•	Miscellaneous Costs				
•	*Interest on Mach.&Equip. Investment	41.500	4.21	đ	2.44
•	TOTAL ALLOCATED COSTS \$	\$	88.69	\$	138.34
•	RETURN OVER ALL LISTED COSTS	В	<i>(−37.45)</i>	\$	44.57
•	SUPPLEMENTARY MANAGEMENT INFORMATION				
•	Work Units Assigned per Acre		.30		•50
•	Power Costs Allocation Factor	4	.95	d	.98
	Total Listed Cost/Unit of Production; Return Over Listed Costs per Unit	р В	4.70 (-1.54)	\$ \$	6.56 1.34
•	Breakeven Yield/Units of Production	P	51.5 bu.	\$	27.66
A.		\$	38.57	Ψ \$	67 . 78
	TOTAL LISTED COSTS PER ACRE	\$	114.41	\$	218.35
•	OTHER POSSIBLE COSTS NOT LISTED				
•	Utilities & Other General Farm Exp. S	\$	60.70	\$	376 . 30
Α.	Buildings, Fences & Tiling Costs	\$	71.90	\$	526.02
•	Interest Allocation				
	Other Costs Not Listed				
•	TOTAL COSTS				
).	AVERAGE PRICE RECEIVED PER UNIT SOLD	\$	2.25		
•	QUANTITY SOLD (OPERATOR'S SHARE)	۲	254.0 bu.		

TABLE	10 - CROP DATA FOR CANNING CORN - 1987				PER ACRE		
Items			Average of 38 Farms Raising Corn		Highest 12 Farms in Return Over Dire Costs		Lowest 12 Farms in Return Over Direct Costs
1.	Acres		56.2 229.6		47.9 300.5		56.0 161.3
2. 3.	Yield Value per Production Unit	\$	1.00	\$	1.00	\$	1.00
4.	Crop Product Return	Ψ	229.63	Ψ	300.52	Ψ	161.34
5 .	Other Crop Income (Insurance, Etc)		8.97		300.32		26.73
6.	TOTAL CROP RETURN	\$.	238.60	\$	300.52	\$	188.07
7.	DIRECT COSTS:						
8.	Fertilizer	\$	31.00	\$	25 . 78	\$	28.70
9.	Chemicals		12.63		9.37		13.98
10.	Seed		6 . 49		13 . 05		5.16
10. 10A.	Crop Drying		0.49		רט•נו.		J.10
10B.	Other Expense		8.52		6.35		7.61
11.	Special Hired Labor		.68		0.		.32
12.	Custom Work Hired		8.31		12.07	1.53 1.53	8.29
 13.	Irrigation Operation						
14.	TOTAL DIRECT COSTS	\$	<i>67.63</i>	\$	66.62	\$	64.05
15.	RETURN OVER DIRECT COSTS	\$	170.96	\$	233.90	\$	124.02
16.	ALLOCATED COSTS:						
17 .	Farm Power & Machinery- Ownership	\$	23.40	\$	23.72	\$	23.64
18.	Farm Power & Machinery-Operation		21.92		19.92		24.98
19.	Irrigation Equipment-Ownership						
20.	Land Costs		78.52		78.79		80.66
21.	Miscellaneous Costs						
22.	*Interest on Mach.&Equip. Investment	t i	4.80		4.68		3.59
23.	TOTAL ALLOCATED COSTS	\$	128.65	\$	127.10	\$	132.88
24.	RETURN OVER ALL LISTED COSTS	\$	42 . 31	\$	106.81	\$	(-8.86)
25.	SUPPLEMENTARY MANAGEMENT INFORMATION						
26.	Work Units Assigned per Acre		. 50		.50		.50
27.	Power Costs Allocation Factor		.85		.78		. 90
28.	Total Listed Cost/Unit of Production	1\$.85	\$.64	\$	1.22
29.	Return Over Listed Costs per Unit	\$.18	\$.36	\$	(05)
30.	Breakeven Yield/Units of Production		196.28	\$	193.72	\$	
30A.	Estimated Total Machine Costs/Acre		55 . 66	- \$	56 . 36	\$	57 . 74
31.	TOTAL LISTED COSTS PER ACRE	\$	196.28	\$	193.72	\$	196.93
<i>3</i> 2.	OTHER POSSIBLE COSTS NOT LISTED						
33.	Utilities & Other General Farm Exp.	\$	379.40	\$	258.70	\$	330.50
33A.	Buildings, Fences & Tiling Costs		382.75		479.35	48.149.00	532.29
34.	Interest Allocation						
35.	Other Costs Not Listed						
<i>36</i> .	TOTAL COSTS						
٠٠٠.	TOTAL COOLS						

^{*}Does not include interest on investment in irrigation equipment or land.

	7 10 - CROP DATA FOR CORN FOR GRAIN - 198				PER ACRE Highest		Lowest	
		Av of Fa			96 Farms		96 Farms	
[tems					in Return		in Return	
			Raising		Over Dia	rect		
	and the state of the		Corn		Costs		Costs	
1.	Acres		106.4		118.5		75.5	
2.	Yield		143.0		163.6		111.1	
3.		\$	1.62	\$	1.62	\$	1.61	
4.	Crop Product Return		231.72		265.11		178.85	
5.	Other Crop Income (Insurance, Etc)		87.20		88.33	经经济股份 网络拉拉	88.23	
6 .		\$	318.92	\$	353 . 43	\$	267.07	
7.	DIRECT COSTS:	4	27.60		22.00		01 77	
8. 0		\$	34.62	\$	38.03	\$	31.74	
9. 0.	Chemicals Seed		18.98		18.99		16.60	
0. 0A.	Crop Drying		21 . 17 6 . 18		21.70 7.02		19.85 5.42	
0B.	Other Expense		6.09		5.78		5.34	
1.	Special Hired Labor		.70		.42		.62	
2.	Custom Work Hired		3 . 97		3.14		3 . 21	
3 .	Irrigation Operation							
4.		\$	91.71	\$	95.08	\$	82.77	
5.	RETURN OVER DIRECT COSTS	\$	227.21	\$	258.35	\$	184.30	
6.	ALLOCATED COSTS:							
7.	Farm Power & Machinery- Ownership	\$	29.14	\$	29.84	\$	25 . 07	
8.	Farm Power & Machinery-Operation		30.74		29.65		33.30	
9.	Irrigation Equipment-Ownership						1996 1997	
0.	Land Costs		74.02		74.86		67.39	
1.	Miscellaneous Costs				2.05			
2.	*Interest on Mach.&Equip. Investment		6.17	SET OF STREET	6.35	đ	5 . 68	
3.	TOTAL ALLOCATED COSTS	\$	140.08	\$	140.71	\$	131.44	
4.	RETURN OVER ALL LISTED COSTS	\$	87.12	\$	117.65	\$	52.86	
5.	SUPPLEMENTARY MANAGEMENT INFORMATION						وو	
6.	Work Units Assigned per Acre		• 55		.55		.55	
V-11-11-15-11-12	Power Costs Allocation Factor	đ	.99		.99	d	.99	
8. 9.	Total Listed Cost/Unit of Production Return Over Listed Costs per Unit		.61		1.44 .72	. \$ \$	1.93 .48	
Contract the second	Breakeven Yield/Units of Production							
		4.00	68.71	A STANSANTAL SALE	67 . 94		66.19	
1.		\$	231.80		235.79		214.21	
2.	OTHER POSSIBLE COSTS NOT LISTED							
3.	Utilities & Other General Farm Exp.	\$	819.40	\$	880.50	\$	565.40	
3A.	Buildings, Fences & Tiling Costs		801.88		1,767.30		693.12	
4.	Interest Allocation							
	Other Costs Not Listed							
6.	TOTAL COSTS							
9.			2.92					
0.	QUANTITY SOLD (OPERATOR'S SHARE)		5,820.0	bu.	8,009.0	bu.	2,807.0 t	

TABLE 10 - CROP DATA FOR SOYBEANS - 1987			Averess		PER ACRE Highest		Lowest	
[tems			Average of 447 Farms Raising Soybeans		89 Farms in Return Over Dire Costs	1	89 Farms in Return Over Direct Costs	
1.	Acres		110.4		119.7 51.3		78.4 32.7	
2.	Yield N. J. W. J.	ď	44.0 4.80	\$	4.80	\$	4.81	
<i>3</i> .	The first of the f	\$	211.18	Ψ	246.22	Ψ	157 . 37	
4.	Crop Product Return		3.11		1.44		6.35	
5. 6.	Other Crop Income (Insurance, Etc) TOTAL CROP RETURN	\$	214.28	\$	247 . 65	\$	163.72	
7.	DIRECT COSTS:							
8.	Fertilizer	\$	1.44	\$	1.24	\$	1.56	
9.	Chemicals		18.13		17.78		18.70	
0.	Seed		8.76		8.73		9.40	
0A.	Crop Drying		.04		.09		.04	
0B.	Other Expense		11.60		11.87		9.38 .66	
1.	Special Hired Labor		1.39		1.45		2.84	
2.	Custom Work Hired		3.13 .01		3.45		2.04	
3. 4.	Irrigation Operation TOTAL DIRECT COSTS	\$	44.49	\$	44.61	\$	42.58	
т. 5.		\$	169.79	\$	203.04	\$	121.15	
6.	ALLOCATED COSTS:	đ	00.67	đ	23.02	\$	16.68	
7.	그는 사람들은 그리고 그리고 있는 사람들은 그리고 있는 것이 되었다. 그리고 있는 것이 없는 것이었다면 없어요. 되었다면 없는 것이었다면 없는 것이었다면 없는 것이었다면 없는 것이었다면 없었다면 없었다면 없었다면 없었다면 없었다면 없었다면 없었다면 없	\$	23.64 24.12	\$	23.00	Ψ	24.52	
18.	Farm Power & Machinery-Operation		24.12		29.00		24.72	
9.	Irrigation Equipment-Ownership		74.75		81.21		65.13	
20. 21.	Land Costs Miscellaneous Costs		/ T•/		V-•			
11 . 22 .	*Interest on Mach.&Equip. Investment		5.16		5.25		4.03	
23 .		\$	127.67		132.48	\$	110.36	
24.	RETURN OVER ALL LISTED COSTS	\$	42.12	\$	70.56	\$	10.79	
25.	SUPPLEMENTARY MANAGEMENT INFORMATION						,	
26.	Work Units Assigned per Acre Power Costs Allocation Factor Total Listed Cost/Unit of Production		. 45		.45		. 45	
27.	Power Costs Allocation Factor		.98		.99		.93	
28.	Total Listed Cost/Unit of Production	\$	3 . 91	\$ #	3.45	ቅ ታ	4.07	
29.	Return Over Listed Costs per Unit	\$.90 25 ∩	φ. L	1.30 36.0		رو. 31.8.6	
30.	Breakeven Yield/Units of Production	ď	33.9 55.01	Dи. Ф	50.9 53.57	<i>р</i> ц• •	77 13	
30A. 31.	Total Listed Cost/Unit of Production Return Over Listed Costs per Unit Breakeven Yield/Units of Production Estimated Total Machine Costs/Acre TOTAL LISTED COSTS PER ACRE	φ \$	172.16	φ \$	177.09	Ф \$	152.93	
32.	OTHER POSSIBLE COSTS NOT LISTED							
33.	Utilities & Other General Farm Exp.	\$	685.50	\$	757.80	\$	398.90	
33A.	Buildings, Fences & Tiling Costs		981.96		1,329.21		891 . 67	
34.	Interest Allocation							
	Other Costs Not Listed							
36.	TOTAL COSTS							
39.	AVERAGE PRICE RECEIVED PER UNIT SOLD	5	5.88	\$	5.23		5.66	
40.	QUANTITY SOLD (OPERATOR'S SHARE)		2,795.0	bu.	3,915.0	bu.	1,320.0 l r land.	

tems	10 - CROP DATA FOR CANNING PEAS - 1987		Average of 30 Farms Raising Canning		PER ACRE Highest 10 Farms in Return Over Dire	1	Lowest 10 Farms in Return Over Dire Costs
1.	Acres		41.5		32 . 6		47.6
2.	Yield		160.2		220.7	A.	122.7
3 .		\$	1.00 160.22	\$	1.00 220.67	\$	1.00 122.73
4. 5.	Crop Product Return Other Crop Income (Insurance, Etc)		24.34		38.40		35.08
6.		\$	184.55	\$	259.08	\$	157.82
	DIRECT COSTS:	4	11 /0		0.17	φ	10.07
8.		\$	11.49 5.83	\$	9.11 7.61	\$	10.97 3.97
9. 0.	Chemicals Seed		7 . 64		16.99		1.43
0. 0A.	Crop Drying		, • ¥ ;		1		
0B.	Other Expense		7.01		4.36		2.58
1.	Special Hired Labor		2.41		8.34		
2.	Custom Work Hired		1.33		1.47		1.68
3. 4.	Irrigation Operation TOTAL DIRECT COSTS	\$	35.71	\$	47.88	\$	20.63
5.	RETURN OVER DIRECT COSTS	\$	148.84	\$	211.20	\$	137.18
6.	ALLOCATED COSTS:						
7.		\$	19.52	\$		\$	12.67
8.	Farm Power & Machinery-Operation		18.36		20.09		17 . 52
9.	Irrigation Equipment-Ownership		72.55		81.56		<i>67.</i> 12
0. 1.	Land Costs Miscellaneous Costs		74.00		0.1 • 50		0,.12
1 • 2 •	*Interest on Mach.&Equip. Investment		3.54		4.26		3.38
!3 .	TOTAL ALLOCATED COSTS	\$	113.98	\$-	127.76	.\$	100.69
4.	RETURN OVER ALL LISTED COSTS	\$	34.87	\$	83.44	\$	36.49
5.	SUPPLEMENTARY MANAGEMENT INFORMATION		40		//		.40
6 .	Work Units Assigned per Acre Power Costs Allocation Factor		.40 .81		•40 •81		.40 .82
7. 8.	Total Listed Cost/Unit of Production	1\$			and the state of t	\$.99
9.		\$.22		.38	\$.30
0.	Breakeven Yield/Units of Production			\$	175.64	\$	121.32
0A.	Estimated Total Machine Costs/Acre		42.30		47.18	\$	34.69
1.	TOTAL LISTED COSTS PER ACRE	\$	149.69	\$	175.64	\$	121.32
2.	OTHER POSSIBLE COSTS NOT LISTED	đ	254.30	\$	179.00	\$	260.30
3. 3A.	Utilities & Other General Farm Exp. Buildings, Fences & Tiling Costs		4.66	Control Control	64.20	Ψ	314.26
эн. 4.	Interest Allocation		7.00		in the state of th		
35 .	Other Costs Not Listed						
16.	TOTAL COSTS						G.
39 . 10 .	AVERAGE PRICE RECEIVED PER UNIT SOLD ; QUANTITY SOLD (OPERATOR'S SHARE)	\$	17	\$		\$	

TABLE	ABLE 10 - CROP DATA FOR ALFALFA HAY - 1987			PER ACRE					
			Average		Highest		Lowest 48 Farms'		
tems			of 240 Farms		48 Farms in Retur	CONTRACTOR AFFECT	in Return		
Cemp			Raising		Over Dir	MINISTER OF THE REAL PROPERTY.	Over Direc		
			Alfalfa	Hay	Costs		Costs		
1.	Acres		39.1		44.8		26.6		
2.	Yield		4.2		5.9		1.7		
3.	Value per Production Unit	\$	62 . 76	\$	63.44	\$	59 . 40		
4.	Crop Product Return		264.83		<i>376.67</i>		102.71		
5.	Other Crop Income (Insurance, Etc)	ж	.41	ሐ	276 67	đ	2.26 104.96		
6.	TOTAL CROP RETURN	\$	265.24	\$	376.67	\$	104.90		
7.	DIRECT COSTS:	4	75 76	4	1.5 00	d.	2 02		
8.	Fertilizer	\$	15.40	\$	15.83 .33	\$	3.83 .86		
9. 10.	Chemicals Seed		.49 9.77		6.34		13 . 91		
0. !0A.	Crop Drying		.59		.83		.56		
10B.	Other Expense		3.96		3.86	4	1.62		
11.	Special Hired Labor		•97		.36		.19		
12.	Custom Work Hired		4.37		6.07		1.24		
13.	Irrigation Operation	d.	25 55	ሐ	33.62	\$	22.22		
14.	TOTAL DIRECT COSTS	\$	35 . 55	\$	33.02	₽	22.22		
15.	RETURN OVER DIRECT COSTS	\$	229.69	\$	343.06	\$	82.74		
6.	ALLOCATED COSTS:								
17.	Farm Power & Machinery- Ownership	\$	31.25	\$	30.89	\$	22.97		
18.	Farm Power & Machinery-Operation		35.96		36.29		32.63		
19.	Irrigation Equipment-Ownership Land Costs		62.35	Tara and	65 . 51		48.35		
20. 21.	Miscellaneous Costs		02.00		UJ.J.				
22 .	*Interest on Mach.&Equip. Investment		7.24		7.48		6.17		
23.	TOTAL ALLOCATED COSTS	\$	136.80	. \$	140.18	\$	110.11		
24.	RETURN OVER ALL LISTED COSTS	\$	92.89	\$.	202.88	\$	(-27 . 37)		
25.	SUPPLEMENTARY MANAGEMENT INFORMATION								
26.			.60		.60		•60 87		
27.	Power Costs Allocation Factor Total Listed Cost/Unit of Production	đ		ď	1.01	d	.84 76.52		
28. 20		ιφ \$	22.01	φ \$	34.17	Ψ .\$	(-15.83)		
69. 30.	Breakeven Yield/Units of Production	Ψ	2 . 75	ton	2.74	ton	2.23 to		
30A.	Estimated Total Machine Costs/Acre	\$	77.37	\$	78.72	\$	62.60		
31.	TOTAL LISTED COSTS PER ACRE	\$	172.35	\$	173.79	\$	132.33		
32.	OTHER POSSIBLE COSTS NOT LISTED								
33 .	Utilities & Other General Farm Exp.	\$	332 . 10	\$	358.60	\$	191.80		
33A.	Buildings, Fences & Tiling Costs		318.74		34/.25		1/8.68		
	Interest Allocation Other Costs Not Listed								
	Other Costs Not Listed TOTAL COSTS								
, U .									
39.	AVERAGE PRICE RECEIVED PER UNIT SOLD								
40.	QUANTITY SOLD (OPERATOR'S SHARE) *Does not include interest on investment		3.0	ton	4.0	ton	1.0 to		

tems			Average 8 Farms Raising Alfalfa Estab.		1987 - PE Average 29 Farms Raising Tillable Grass Hay		Average 10 Farms Raising Non-Tillabl Hay
1.	Acres		20.4		14.5		25 . 7
2.	Yield	4	.9	d	2.1	đ	2.5 45.80
3.	Value per Production Unit	\$	65.00	\$	31.03 64.21	\$	45.60 114.05
4.	Crop Product Return		57 . 35		04.21		•58
5. 6.	Other Crop Income (Insurance, Etc) TOTAL CROP RETURN	\$	57 . 35	\$	64.21	\$	114.63
-	Exercise accura						
7.	DIRECT COSTS:	\$	9.22	\$		\$	1.32
8.	Fertilizer	φ	3.28	Ψ		Ψ	1.32
9.	Chemicals		21.03				5.53
0.	Seed		21.09				J. 3.
0A.	Crop Drying		. 25		.62		3 .3 5
0B.	Other Expense		2.50		•02		.27
1.	Special Hired Labor Custom Work Hired		.39				2 . 80
2.			• • •				
3.	Irrigation Operation TOTAL DIRECT COSTS	\$	36.67	\$. 62	\$	13.27
4.	TOTAL DIRECT COSTS	Ψ	20.07				
5.	RETURN OVER DIRECT COSTS	\$	20.69	\$	63.59	\$	101.36
6.	ALLOCATED COSTS:						
7.	Farm Power & Machinery- Ownership	\$	7.89	\$	11.72	\$	18.13
8.	Farm Power & Machinery-Operation		8.38		9.86		19.26
9.	Irrigation Equipment-Ownership						
0.	Land Costs		36.27		37.97		47.98
1.	Miscellaneous Costs						
2.	*Interest on Mach.&Equip. Investmen	it	1.32		1.86		6.23
3.	TOTAL ALLOCATED COSTS	\$	53 . 87	\$	58.28	\$	91.60
4.	RETURN OVER ALL LISTED COSTS	\$	(-33.19)	\$	5.31	\$	9.77
5 .	SUPPLEMENTARY MANAGEMENT INFORMATION		1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1				
6.	Work Units Assigned per Acre		.20		.28		• 40
7.	Power Costs Allocation Factor		.70		.74		.83
8.	Total Listed Cost/Unit of Production	on\$	102.61	\$	28.47		42.11
9.	Return Over Listed Costs per Unit	\$	(-37.61)			\$	3.92
0.	Breakeven Yield/Units of Production	7 ,	1.39 i	ton			2.29 to
0A.	Estimated Total Machine Costs/Acre		17.86	\$	23.45	\$	45.49
1.	TOTAL LISTED COSTS PER ACRE	\$	90.54	\$	58.90	\$	104.86
2.	OTHER POSSIBLE COSTS NOT LISTED						
3 .	Utilities & Other General Farm Exp	. \$	40.80	.\$	49.50	\$	115.50
3A.	Buildings, Fences & Tiling Costs	\$	58.17	. \$	38.46	\$	141.57
4.	Interest Allocation						
5.	Other Costs Not Listed						
6.	TOTAL COSTS						
	AUTOAGE DOTGE DEGETUED DES LINTE COLD	ሐ		đ			
9.	AVERAGE PRICE RECEIVED PER UNIT SOLD	\$		\$		Ψ	
0.	QUANTITY SOLD (OPERATOR'S SHARE) *Does not include interest on investm						

TABLE 10 - CROP DATA FOR OAT HAY, WILD HAY, & OAT SILAGE - 1987 - PER ACRE Average Average Average *33 Farms* 8 Farms 16 Farms Raising Raising Raising Items 0at 0at Wild Silage Hav Hay 15.6 8.9 21.21. Acres1.9 4.1 1.9 Yield 2. 35.00 25.63 18.06 3. Value per Production Unit 73.25 67.31 48.99 Crop Product Return 4. .71 8.30 Other Crop Income 5. 48.99 \$ 81.56 TOTAL CROP RETURN 68.01 6. DIRECT COSTS: 7. 3.30 \$ \$ \$ Fertilizer 8. . 47 9. Chemicals 9.43 3.78 Seed 10. 10A. Crop Drying 1.46 1.37 .83 10B. Other Expense 1.18 Special Hired Labor 11. 1.01 2.45 Custom Work Hired 12. Irrigation Operation 13. 18.21 2.47 \$ 4.62 \$ 14. TOTAL DIRECT COSTS 46.52 \$ 63.35 63.40 \$ RETURN OVER DIRECT COSTS *15.* ALLOCATED COSTS: 16. 17.69 Farm Power & Machinery- Ownership 7.87 15.19 17. 23.02 8.65 Farm Power & Machinery-Operation 21.73 18. Irrigation Equipment-Ownership 19. 23.15 56.56 35.06 Land Costs 20. Miscellaneous Costs 21. 4.81 3.97 1.80 *Interest on Mach.&Equip. Investment 22. 102.08 TOTAL ALLOCATED COSTS 75.96 41.46 23. RETURN OVER ALL LISTED COSTS 5.06 (-38.73)(-12.56) 24. 25. SUPPLEMENTARY MANAGEMENT INFORMATION . 40 Work Units Assigned per Acre .40 . 20 26. .95 .79 **.** 68 Power Costs Allocation Factor 27. 29.65 23.00 41.90 Total Listed Cost/Unit of Production\$ 28. 2.65 (-9**.**55) Return Over Listed Costs per Unit (-6.53)\$ 29. 6.7 ton 1.7 ton Breakeven Yield/Units of Production 2.3 ton *30*. 47.16 18.98 40.90 \$ Estimated Total Machine Costs/Acre 30A. 120.28 80.58 43.93 TOTAL LISTED COSTS PER ACRE 31. OTHER POSSIBLE COSTS NOT LISTED 32. 96.80 Utilities & Other General Farm Exp. \$ 76.20 16.80 33. 129.76 124.55 53.95 Buildings, Fences & Tiling Costs 33A. Interest Allocation 34. 35. Other Costs Not Listed TOTAL COSTS 36. AVERAGE PRICE RECEIVED PER UNIT SOLD 39. QUANTITY SOLD (OPERATOR'S SHARE) 40. *Does not include interest on investment in irrigation equipment or land.

tems			Average of 133 Farms Raising Silage		Highest 26 Farms in Return Over Direc Costs	st.	Lowest 26 Farms in Return Over Direc Costs
1.	Acres		20.3		17.0		16.9
2	Yield	.	19.1	φ	25.0	æ	12.2
3 .		\$	19.71 375.76	\$	19.62 490.53	\$	19.85 243.14
4. 5.	Crop Product Return Other Crop Income (Insurance, Etc)		75.07		75.94		40.47
6 .		\$	450 . 83	\$	566.47	\$	283.61
7.	DIRECT COSTS:						
8.		\$	29.11	\$	29.76	\$	23.61
9.	Chemicals		18.37		17.12		19.35
0.	Seed		19.46		20.94		17.04
0A •	Crop Drying		1.63 3.00		1.35 4.41		.89 3.08
0B. 1.	Other Expense Special Hired Labor		.25		₩•₩		.18
2.	Custom Work Hired		8.42		15.29		9.29
3. 4.	Irrigation Operation TOTAL DIRECT COSTS	\$	80.25	\$	88.88	\$	73.43
5.	RETURN OVER DIRECT COSTS	\$	370.58	\$	477 . 59	\$	210.18
6.	ALLOCATED COSTS:		ta ann an a				
7.	Farm Power & Machinery- Ownership	\$	32.71	\$	33.65	\$	31.36
8.	Farm Power & Machinery-Operation		<i>36</i> .95		31.00		34.79
9.	Irrigation Equipment-Ownership						60 3600
0.	Land Costs		64.14		70.41		61.89
1.	Miscellaneous Costs		7 00		7.59		6.21
.2. .3.	*Interest on Mach.&Equip. Investment TOTAL ALLOCATED COSTS	\$	7.00 140.79	\$		\$	134.26
4.	RETURN OVER ALL LISTED COSTS	\$	229.79	\$	334.94	\$	75.92
5.	SUPPLEMENTARY MANAGEMENT INFORMATION						100
6 .	Work Units Assigned per Acre		.60		.60		.60
7.	Power Costs Allocation Factor		.99		.96		1.00
8.	Total Listed Cost/Unit of Production	100				Attended to	16.96
9.	Return Over Listed Costs per Unit	5 to 24			13.40 11.8 t	\$ 25	6.20
0. 0A.	Breakeven Yield/Units of Production Estimated Total Machine Costs/Acre	\$			THE RESIDENCE OF THE PARTY OF T		78.57
1.	THE CONTROL OF THE SECOND CONTROL OF THE CONTROL OF	\$	221 . 03		THE CONTRACT OF STREET STREET,		
2.	OTHER POSSIBLE COSTS NOT LISTED		0.00				
3.	Utilities & Other General Farm Exp.			\$		\$	117.30
3A.	Buildings, Fences & Tiling Costs		151.35		147.43		85.53
4.	Interest Allocation						
5.	Other Costs Not Listed						
6.	TOTAL COSTS						
	AVERAGE PRICE RECEIVED PER UNIT SOLD	\$		\$		\$	

^{*}Does not include interest on investment in irrigation equipment or land.

TABLE 10 - CROP DATA FOR TILL PASTURE, NON-TILL PASTURE & LAND RENTED OUT - PER ACRE Average Average Average 8 Farms 9 Farms 11 Farms Non-Tillable Land Items Tillable Pasture Pasture Rented Out 1. Acres11.4 40.7 41.7 2. Yield 155.8 120.1 76.0 3. Value per Production Unit 1.00 1.00 1.00 4. Crop Product Return 155.79 120.07 76.00 5. Other Crop Income (Insurance, Etc) 4.57 15.83 TOTAL CROP RETURN 6. \$ 155.79 124.64 \$ 91.82 7. DIRECT COSTS: 8. Fertilizer \$ \$ 2.23 9. Chemicals .60 10. Seed .18 .53 10A. Crop Drying 10B. Other Expense 11. Special Hired Labor 12. Custom Work Hired . 22 Irrigation Operation 13. TOTAL DIRECT COSTS 14. \$.18 3.57 15. RETURN OVER DIRECT COSTS 155.61 \$ 124.64 88.25 16. ALLOCATED COSTS: 17. Farm Power & Machinery- Ownership 3.07 .07 3.21 Farm Power & Machinery-Operation 18. 1.93 .17 2.21 19. Irrigation Equipment-Ownership Land Costs 20. 51.23 19.64 74.10 21. Miscellaneous Costs 22. *Interest on Mach.&Equip. Investment .05 . 44 .55 23. TOTAL ALLOCATED COSTS 56.67 19.93 80.07 24. RETURN OVER ALL LISTED COSTS 98.95 \$ 104.71 8.18 25. SUPPLEMENTARY MANAGEMENT INFORMATION 26. Work Units Assigned per Acre .05 .04 .01 27. Power Costs Allocation Factor . 84 .22 .73 28. Total Listed Cost/Unit of Production\$.36 .17 1.1029. Return Over Listed Costs per Unit .64 .87 \$.11 30. Breakeven Yield/Units of Production \$ 56.84 19.93 83.65 Estimated Total Machine Costs/Acre \$.29 30A. 5.44 6.11TOTAL LISTED COSTS PER ACRE 31. 56.84 19.93 83**.**65 32. OTHER POSSIBLE COSTS NOT LISTED 5.00 4.50 33. Utilities & Other General Farm Exp. \$ 36.00 33A. Buildings, Fences & Tiling Costs \$ 12.35 3.02 48.17 Interest Allocation 34. *35*. Other Costs Not Listed *36*. TOTAL COSTS 39. AVERAGE PRICE RECEIVED PER UNIT SOLD

40.

QUANTITY SOLD (OPERATOR'S SHARE)

*Does not include interest on investment in irrigation equipment or land.

Ttems	10 - CROP DATA FOR SET ASIDE ACRES - 1987	Average 345 Farms Set Aside Acres-Till	PER ACRE		Average 34 Farms Set Aside-Idle Incl. CRP
1.	Acres	67.5			22.3
2.	Yield	14.2		4	259.8
<i>3</i> .	Value per Production Unit \$	1.00		\$	1.00 259.79
4.	Crop Product Return	14.24 179.27			56.40
5. 6.	Other Crop Income (Insurance, Etc) TOTAL CROP RETURN \$	193.51		\$	316.19
7.	DIRECT COSTS:				
8.	Fertilizer \$. 27		\$	2.71
9.	Chemicals	1.27			2 . 56
0.	Seed	3 . 16			10.23
0A.	Crop Drying	.03			
0B.	Other Expense	. 25			.38
1.	Special Hired Labor	•0 <i>6</i>			1 67
2.	Custom Work Hired	.80			1.64
3. 4.	Irrigation Operation TOTAL DIRECT COSTS \$	5.84		\$	17.52
5.	RETURN OVER DIRECT COSTS \$	187.67		\$	298.67
!6 .	ALLOCATED COSTS:				
7.	Farm Power & Machinery- Ownership \$	9.42		\$	1.58
8.	Farm Power & Machinery-Operation	9.87			2.90
9.	Irrigation Equipment-Ownership				
20.	Land Costs	74.36			64.53
21.	Miscellaneous Costs				11
22.	*Interest on Mach.&Equip. Investment	1.96		\$	•44 69•45
23.	TOTAL ALLOCATED COSTS \$	95 . 60			
24.	RETURN OVER ALL LISTED COSTS \$	92.07		\$	229.23
25.	SUPPLEMENTARY MANAGEMENT INFORMATION				0.5
26.	Work Units Assigned per Acre	.20			•05 . •80
27.	Power Costs Allocation Factor	.87		ď	.ou .33
28.	Total Listed Cost/Unit of Production\$	7.14 6.48		\$ \$	• 55 • 88
29.	Return Over Listed Costs per Unit \$ Breakeven Yield/Units of Production \$			φ \$	86 . 94
30. 30A.	Estimated Total Machine Costs/Acre \$			\$	6.02
31.	TOTAL LISTED COSTS PER ACRE \$			\$	86 . 95
32 .	OTHER POSSIBLE COSTS NOT LISTED				
33.	Utilities & Other General Farm Exp. \$			\$	16.91
33A.	Buildings, Fences & Tiling Costs	280.07			(-8.46)
34.	Interest Allocation				
35.	Other Costs Not Listed				
36.	TOTAL COSTS				
39.	AVERAGE PRICE RECEIVED PER UNIT SOLD \$		\$	\$	
40.	QUANTITY SOLD (OPERATOR'S SHARE)				

EXPLANATION OF LIVESTOCK TABLES

Productive livestock enterprises are an important part of the farm business in all but a few of the farms involved in this report. Tables 11 through 15B pertain to the major livestock enterprises.

In calculating the Total Return for the enterprise, the inventory change, purchase and sale of livestock, value of animals butchered, products sold and products used in the home are considered in order to arrive at the Total Income or Total Return for the enterprise. Total Return is divided by hundred weights or number of head to get a per unit figure for comparison. An example of this calculation is shown below for farrow to finish hogs.

Enterprise Inflow:		<u>Weight</u>	<u>Value</u>								
Beginning Inventory Purchased	860 head @ 100 lbs. each = 9 head @ 275 lbs. each =	86,000 lbs. \$ 2,475 lbs. \$ 88,475 lbs. \$	43,000 3,100 46,100								
Enterprise Outflow:											
Ending Inventory Hogs Sold Hogs Butchered	790 head @ 115 lbs. each = 1100 head @ 225 lbs. each = 3 head @ 230 lbs. each =	90,850 lbs. \$ 247,500 lbs. 690 lbs.	52,150 133,650 373								
	Total Production = w of Beg. Inv. & Purchases = Net Production =	-88,475 1bs.	186,173 -46,100 140,073								
\$140,073 (n equals \$55.	cwts. (net 1bs. p ie/cwt.)	prod.)									

Since feed is the largest single item of cost for all classes of livestock, Return Above Feed Costs has been used to classify farms into high, low and average return groups.

Feed Costs are determined from feed records kept by the farm operator. Purchase price is used for all feeds purchased from off the farm. An average price is charged for each kind of farm grown feed. Farm grown feed prices are listed on page 38.

Direct Cost items are relatively easy to identify and classify in the record book and are listed in each of the tables as cost to the livestock enterprises. The Return Over Feed and Other Direct Costs is the amount available after paying for the feed and those cost items listed.

Allocated costs are expenses for power and machinery, livestock equipment, buildings and fences. They are proportioned to each livestock enterprise by the use of the work unit. The farmer may modify these costs by assigning a specific cost allocation factor for each livestock enterprise.

Other possible costs not included in the "Total Listed Costs per Unit of Livestock" are utilities and other general farm expenses. A proportionate share of these total expenses have been assigned to each livestock enterprise by the use of the work unit value.

TABLE 11A - COSTS AND RETURNS FROM COMPLETE HOG ENTERPRISE* - 1987 Average 13 Farms 13 Farms Items of 63 Highest in Lowest in Return Above Return Above Farms Feed Cost Feed Cost 230,361 224,549 136,184 1. Pounds of Hogs Produced Per Cwt. Per Cwt. Per Cwt. 2. 49.88 54.76 45.20 Net Value Produced 3. Other Miscellaneous Hog Income 4. TOTAL VALUE PRODUCED 49.88 54.76 45.20 POUNDS OF FEED FED 5. 6. 304.8 302.9 302.0 Corn 7. Small Grain 4.5 2.1 3.0 26.3 8. Complete Ration 7.0 6.5 108.6 9. Protein, Salt & Mineral & Milk 87.7 74.3 TOTAL CONCENTRATES 403.9 384.9 440.8 10. 11. Forages . 2 . 2 FEED COST 12. 7.59 7.76 13. Grains 7.28 1.90 14. Complete Ration .90 . 87 13.02 16.66 *15.* Protein, Salt & Mineral & Milk 11.40 .01 16. .01 Forages 17. Pasture 18. TOTAL FEED COSTS 21.52 19.56 26.32 19. RETURN OVER FEED COSTS 28.35 35.21 18.88 20. OTHER DIRECT COSTS 21. Miscellaneous Livestock Expense 1.16 1.24 1.11 22. Veterinary Expense 1.23 1.51 1.11 .21 23. Custom Work . 21 • 50 .80 1.91 .01 24. Special Hired Labor TOTAL OTHER DIRECT COSTS 2.73 25. 3.41 4.88 30.33 16.15 26. RETURN OVER FEED & OTHER DIRECT COSTS 24.95 27. ALLOCATED COSTS Power & Machinery Costs 1.29 28. (PCAF 1.00)\$ 1.77 1.44 29. Livestock Equipment Costs (ECAF 5) 2.56 2.84 2.58 2.33 30. Building & Fences (BCAF 6) 2.70 2.43 31. TOTAL ALLOCATED COSTS 6.52 6.94 5.80 32. RETURN OVER ALL LISTED COSTS 18.24 23.77 9.47 SUPPLEMENTARY MANAGEMENT INFORMATION 33. 280.03 171.70 34. Return for \$100 Feed Fed 231.73 54.91 49.50 35. Price Received/Cwt. All Animals 52.46 Price Received/Cwt. Sold Mkt. Only 50.50 52.16 56.18 36. Number of Litters Farrowed 136 149 74 37. 1.5 37A. Litters/Bearing Female/Year 1.8 1.9 Number of Pigs Born per Litter 9.7 9.3 38. 9.4 Number of Pigs Weaned per Litter 7.9 8.1 7.4 39. 39A. Number of Pigs Produced per Litter 7.8 8.0 7.2 40. Percent Death Loss 11.6 11.8 14.1 239.6 41. Average Weight of All Hogs Sold 221.5 204.5 231.6 42. Average Weight of Mkt. Hogs Sold 220.1 189.2 Price per Cwt. Concentrate Fed 5.33 43. 5.08 5.97 Price/Cwt. Protein, Salt, Mineral Fed 14.86 15.36 15.34 44. Pounds of Pork Purchased 6,708 2,508 2,906 45. TOTAL LISTED COSTS/CWT. PORK PROD. \$ 35.73 46. 31.63 31.00 \$ 4,275.74 2,454.38 Utilities & Other General Farm Expense \$ 4,661.51 47.

^{*}Farms included in Table 11A carried out a complete program of farrowing

TABLE 11B - COSTS AND RETURNS FROM HOG FINISHING ENTERPRISE - 1987

Items	11B - COSTS AND RETURNS FROM HOG FINISI		Average of 76 Farms	15 Farms Highest in	15 Farms Lowest in e Return Above Feed Cost
1. 2.	Average Number of Pigs on Hand Pounds of Hogs Produced		249.0 126,200	248.4 111,051	172.1 90,668
			Per Cwt.	Per Cwt.	Per Cwt.
3.	Net Value Produced	\$	34.77	\$ 41.45 \$	26.91
4.	Other Miscellaneous Hog Income				
5.	TOTAL VALUE PRODUCED	\$	34.77	\$ 41.45 \$	26.91
6.	POUNDS OF FEED FED				
7.	Corn		285.7	274.7	264.3
8.	Small Grain		2.3	3.6	1.1
9.	Complete Ration		4.5	- • •	
10.	Protein, Salt & Mineral & Milk		70.8	75.0	68.3
11.	TOTAL CONCENTRATES		363.3	353.3	333.7
12.	Forages				
13.	FEED COST				
14.	Grains	\$	6.90	\$ 6 . 70 \$	5.80
15.	Complete Ration		.32		
16.	Protein, Salt & Mineral & Milk		10.35	10.48	11.66
17.	Forages				
18.	Pasture				
19.	TOTAL FEED COSTS	\$	17.56	\$ 17.17 \$	17.46
20. 21.	RETURN OVER FEED COSTS OTHER DIRECT COSTS	\$	17.21	\$ 24.27 \$	9.46
22.	Miscellaneous Livestock Expense	\$. 47	\$.41 \$	• 98
23.	Veterinary Expense		. 45	.37	. 42
24.	Custom Work		.46	.85	.12
25.	Special Hired Labor		.08		.12
26.	TOTAL OTHER DIRECT COSTS	\$	1.45	\$ 1.64 \$	1.65
27.	RETURN OVER FEED & OTHER DIRECT COSTS	\$	15.76	\$ 22.63 \$	7.81
28.	ALLOCATED COSTS		-		
29.	Power & Machinery Costs (PCAF 1.02))\$.64	\$.66 \$.64
30.	Livestock Equipment Costs (ECAF 4,		1.24	1.34	1.74
31.	Building & Fences (BCAF 4,)	1.24	1.43	.95
32.	TOTAL ALLOCATED COSTS	\$	3.12	\$ 3.42 \$	3.33
33.	RETURN OVER ALL LISTED COSTS	\$	12.64	\$ 19.21 \$	4.48
34.	SUPPLEMENTARY MANAGEMENT INFORMATION				
35.	Return for \$100 Feed Fed	\$	198.01	\$ 241.30	
36.	Price Received per Cwt.	\$	50.00	\$ 52 . 29 \$	
<i>37</i> .	Average Weight of Pigs Sold		234.2	233.2	230.5
38.	Average Price Paid per Pig Bought	\$	49.99	\$ 44.03	
39.	Average Weight per Pig Bought		47.4	42.8	47.2
40.	Number of Pigs Purchased		345	263	480
41.	Number of Pigs Transferred In		344	344	
42.	Average Weight of Pigs Transferred I	n	53 . 7	54.7	
43.	Pounds of Pork Purchase		16,344	11,246	22 , 639
44.	Percent Death Loss		2.4	2.0	3.4
45.	Price per Cwt. Concentrate Fed	\$	4.83	\$ 4.86	
46.	Price/Cwt. Protein,Salt,Mineral Fed	\$	14.61	\$ 13.96	
47.	Effective Daily Gain-1bs./Day/Pig		1.37	1.28	1.55
48.	TOTAL LISTED COSTS/CWT. PORK PROD.	\$	22.13	\$ 22.23	22.43
49.	Utilities & Other General Farm Expense	\$	1,228.70	\$ 1,019.77	863.47

Farms included in Table 11B either purchased feeder pigs or transferred home farrowed pigs to the finishing lots. Feed costs and returns do not include any breeding herd maintenance costs.

TABLE 11C - COSTS AND RETURNS FROM PRODUCING WEANING PIGS - 1987

		•	Average		14 Farms		14 Farms
Items			of 42		Highest i		Lowest in
			Farms		Return Ab Feed Cost		Return Above Feed Cost
1	N. L. G. Linkson E.		116		122		110
1.	Number of Litters Farrowed	\$	369.14	\$		\$	288.03
2.	Net Value Produced		309.14	φ	431.73	ψ	200.05
3. 4.	Other Miscellaneous Weaning Pigs Income TOTAL VALUE PRODUCED	∌ \$	369.14	\$	431.75	\$	288.03
		Po	r Litter	Po	r Litter	Pe	r Litter
5.	POUNDS OF FEED FED	re.	I LILLEI	10	r Drccer	10.	i micter
6.	Corn		1,560.7		1,354.8		1,695.9
7.	Small Grain		56 . 9		<i>36.</i> 2		44.0
8.	Complete Ration		30.0		29.9		27.7
9.	Protein, Salt & Mineral & Milk		554.9		542.9		543.7
10.	TOTAL CONCENTRATES		2,202.5		1,963.7		2,311.3
11.	Forages		6.7		3.5		1.4
2.	FEED COST						
3.	Grains	\$	40.17	\$	33.90	\$	43.72
4.	Complete Ration	٠	5.67		3.71		4.65
5.	Protein, Salt & Mineral & Milk		95.16		82.89		103.62
6 .	Forages		.16		.11		.02
7.	Pasture						
8.	TOTAL FEED COSTS	\$	141.17	\$	120.61	\$	152.00
9.	RETURN OVER FEED COSTS	\$	227.97	\$	311.14	\$	136.03
0.	OTHER DIRECT COSTS	,		•		•	
1.	Miscellaneous Livestock Expense	\$	11.88	\$	14.17	\$	9.72
2.		Ψ	14.67	Ψ	14.05	т	13.54
	Veterinary Expense		1.58		1.75		2.03
3.	Custom Work		.34		.60		.26
4. 5.	Special Hired Labor TOTAL OTHER DIRECT COSTS	\$	28.47	\$	30.57	\$	25.55
	RETURN OVER FEED & OTHER DIRECT COSTS	\$	199.49	\$	280.57	\$	110.48
27.	ALLOCATED COSTS				•		
28.	Power & Machinery Costs (PCAF 0.98)\$	14.79	\$	15.44	\$	14.42
.o.) Ψ	22.99	*	21.92	•	16.88
	Building & Fences (BCAF 4)	28.40		26.71		28.92
0. 1.	TOTAL ALLOCATED COSTS	\$	66.18	\$	64.06	\$	60.23
32.	RETURN OVER ALL LISTED COSTS	\$	133.31	\$	216.51	\$	50.25
3.	SUPPLEMENTARY MANAGEMENT INFORMATION	.4	067 15	-4	057 04	4	100 40
4.	Return for \$100 Feed Fed	\$	261.48	\$	357.96	\$	189.49
5.	Average Price Received/Animal Sold	\$	64.21	\$	61.13	\$	75.99
6.	Average Price/Pig Sold or Transferre		49.81	\$	53.63	\$	42.82
7.	Average Weight/Pig Sold or Transferr	ed	50.8		55.1		45.9
8.	Number of Pigs Produced		878		990		759
9.	Number of Pigs Born per Litter		9.5		9.7		9.3
0.	Number of Pigs Weaned per Litter		7.6		8.2		7.0
OA.	Litters/Bearing Female/Year		1.8		2.0		1.8
0B.	Pigs Produced/per Sow/per Year		13.6 16.5		16.2 13.2		12.4 21.2
41.	Percent Death Loss						
42.	Price per Cwt. Concentrate Fed	\$	6.40	\$	6.15	\$ #	6.55
13.	Price/Cwt. Protein, Salt, Mineral Fed	\$	17.76	\$	15.82	\$	19.71
4.	Feed & Direct Costs per Pig Produced		22.41	\$	18.63	\$	25.73
45 .	TOTAL LISTED COSTS PER LITTER	\$	235.83	\$	215.25	\$	237.77

Farms included in Table 11C produced pigs for sale as feeders. Returns and costs are reported on a per litter basis.

TABLE 11D - COSTS AND RETURNS FROM MIXED HOG ENTERPRISE* - 1987 12 Farms 12 Farms Average of 24 Highest in Lowest in Items Return Above Return Above Farms Feed Cost Feed Cost 193,075 201,398 209,721 1. Pounds of Hogs Produced Per Cwt. Per Cwt. Per Cwt. 2. Net Value Produced 49.77 53.98 45.20 3. Other Miscellaneous Hog Income TOTAL VALUE PRODUCED 49.77 53.98 45.20 4. 5. POUNDS OF FEED FED 322.1 Corn 301.9 283.2 6. 7. 0.4 Small Grain 1.5 2.5 32.4 23.6 15.5 8. Complete Ration 85.4 Protein, Salt & Mineral & Milk 86.7 87.8 9. 413.6 389.0 440.4 10. TOTAL CONCENTRATES .8 . 4 11. Forages • 6 FEED COST 12. 6.99 7.62 \$ 7.29 13. Grains 2.04 1.19 1.63 Complete Ration 14. 13.23 12.92 13.58 15. Protein, Salt & Mineral & Milk .01 .01 .02 16. Forages 17. Pasture 22.40 22.17 21.97 TOTAL FEED COSTS 18. 22.80 32.01 27.60 19. RETURN OVER FEED COSTS OTHER DIRECT COSTS 20. 1.01 21. Miscellaneous Livestock Expense .90 .81 1.26 1.19 1.22 22. Veterinary Expense .53 . 45 . 49 23. Custom Work .01 Special Hired Labor .25 . 48 24. 2.80 TOTAL OTHER DIRECT COSTS 2.87 2.94 25. 20.01 RETURN OVER FEED & OTHER DIRECT COSTS \$ 24.73 29.08 26. ALLOCATED COSTS 27. 1.34 (PCAF 0.97)\$ 1.14 .97 Power & Machinery Costs 28. 2.81 2.14 9) 2.49 Livestock Equipment Costs (ECAF 29. 3.47 2.39 (BCAF 9) 2.95 30. Building & Fences \$ 6.52 7.44 5.60 TOTAL ALLOCATED COSTS 31. 14.15 32. RETURN OVER ALL LISTED COSTS 18.15 21.83 SUPPLEMENTARY MANAGEMENT INFORMATION 33. 201.85 245.71 Return for \$100 Feed Fed 224.47 34. 51.50 Price Received/Cwt. All Animals 53.66 55.73 35. 51.62 44.09 47.69 36. Price Received/Cwt. Sold Mkt. Only 147 104 126 Number of Litters Farrowed 37. 1.9 1.7 1.8 Litters/Bearing Female/Year 37A. 9.6 9.8 9.4 Number of Pigs Born per Litter 38. 39. Number of Pigs Weaned per Litter 8.1 8.4 7.6 7.7 8.3 39A. Number of Pigs Produced per Litter 8.110.7 11.5 11.0 40. Percent Death Loss 170.3 223.0 Average Weight of All Hogs Sold 192.5 41. 185.3 226.3 Average Weight of Mkt. Hogs Sold 202.9 42. 5.64 5.08 43. Price per Cwt. Concentrate Fed 5.36 15.89 14.71 \$ Price/Cwt. Protein, Salt, Mineral Fed 15.27 44. 2,210 10,060 Pounds of Pork Purchased 6,135 45. 31.63 32.15 31.05 TOTAL LISTED COSTS/CWT. PORK PROD. \$ 46. \$ 3,613.68 Utilities & Other General Farm Expense \$ 3,637.47 \$ 3,660.20 47.

^{*}Farms included in Table 11D may have bought or sold feeders as well as farrowing and finishing their own.

IABLE	12 - COSTS AND RETURNS FROM DAIRY COWS	, (Average	ПЕР	27 Farms		27 Farms	
Items			of 136		Highest in		Lowest in	
Trems	·		Farms				Return Ab	
					Feed Cost		Feed Cost	
1.	Average Number of Cows		50.1		59.4		37.7	
			Per Cow		Per Cow		Per Cow	
2.	Pounds of Milk		15,430		17,581		13,257	
3.	Pounds of Butterfat		547.0		633.6		463.0 3.5	
4.	Percent of Butterfat in Milk		3.6		3.6		3.9	
5.	VALUE OF PRODUCE	ø	1,822.06	ď	2,085.61	d	1,523.00	
6. 7.	Dairy Products Sold Dairy Products Used in Home	φ	3.29	φ	2,003.01	ψ	4.19	
8.	Milk Fed to Livestock		7.66		14.33		4.27	
9.	Net Change in Value of Cows		(-75.11)		(-38.03)		(-122.73)	
10.	Other Miscellaneous Dairy Income		6.25		7.58		2.41	
11.	TOTAL VALUE PRODUCED	\$	1,764.15	\$	2,072.41	\$	1,411.14	
12.	POUNDS OF FEED FED							
13.	Corn		5,652.7		5,686.8		6,154.6	
14.	Small Grain		222.1 207.0		122.2 157.9		161.4 126.9	
15. 16.	Complete Ration Protein, Salt & Mineral		1,434.6		1,521.7		1,245.3	
17.	TOTAL CONCENTRATES		7,516.3		7,488.5		7,688.2	
18.	Legume Hay		5,455.5		4,569.5		6,745.6	
19.	Other Hay & Dry Roughage		255.2		165.2		334.2	
20.	Silage		8,827.4		7,593.1		12,019.1	
20A.	Haylage		3,206.8		5,433.6		1,250.0	
21.	FEED COSTS						150 10	
22.	Grains	\$	143.77	\$	141.99	\$	150.42	
23.	Complete Ration	171	13.67 193.19		10.44 201.08		10.88 192.73	
24.	Protein/Salt/Minr1 (Cost/Cwt.Fed 13.	47)	230.00		237.42		245.60	
25. 26.	Hay/Haylage and Dry Roughage Silage		85.35		71.26		113.08	
27.	Pasture		.80		.17		1.86	
28.	TOTAL FEED COSTS	\$	666.79	\$	662.37	\$	714.59	
29.	RETURN OVER FEED COST	\$	1,097.37	\$	1,410.03	\$	696.58	
30.	OTHER DIRECT COSTS			_	***		100.00	
31.	Miscellaneous Livestock Expense	\$	145.87	\$	164.02	\$	109.39	
32.	Veterinary Expense		44 . 25 54 . 51		53 . 43 57 . 68		37 . 96 51 . 70	
33. 34.	Custom Work Hired Special Hired Labor		16.55		31.89		3.74	
35.	TOTAL OTHER DIRECT COSTS	\$	261.18	\$	307.02	\$		
<i>36</i> .	RETURN OVER FEED & OTHER DIRECT COSTS	. \$	836.19	Ф	1,103.01	\$	493.79	
<i>37</i> .	ALLOCATED COSTS Power & Machinery Costs (PCAF 0.98)¢	69.46	\$	71.81	\$	70.02	
38. 39.	· · · · · · · · · · · · · · · · · · ·)Ψ	82.38	Ψ	103.87	Ψ	72.00	
40.)	99.80		102.65		76.82	
41.	TOTAL ALLOCATED COSTS	\$	251.64	\$	278.33	\$		
42.	RETURN OVER ALL LISTED COSTS	\$	584.55	\$	824.68	\$	274.96	
43.	SUPPLEMENTARY MANAGEMENT INFORMATION		041 57	4	010 00	4	107 /0	
44.	Return for \$100 Feed Fed	\$	264.57	\$	312.88	\$	197.48 5.39	
45 .	Feed Cost per Cwt. Milk	\$	4.32 1.22	\$	3.77 1.05	\$		
46. 47.	Feed Cost per Pound of Butterfat Lbs. of Milk per Lb. of Concentrate	φ	2.05	Ψ	2.35	Ψ	1.72	
47. 48.	Average Price per Cwt. Milk Sold	\$	11.89	\$		\$		
49.	Average Price per Court, Wilk Bold Average Price per Pound of Butterfat		3.34	42	3.30	*	3.30	
50.	Total Listed Costs/Cwt. Milk Prod.	\$	7.64	\$		\$		
51.	Dairy Cow Turnover Percentage	•	33.9	·	37.0		39.8	
52.	TOTAL LISTED COSTS PER COW	\$	1,179.60	\$	1,247.73	\$	1,136.21	
53.	Utilities & Other General Farm Expense	\$	4,583.73	\$	4,903.28	\$	3,313.27	

TABLE 13 - COSTS AND RETURNS FROM OTHER DAIRY CATTLE, COMMERCIAL HERDS - 1987 27 Farms 27 Farms Average of 136 Highest in Lowest in Items Return Above Return Above Farms Feed Cost Feed Cost 52.5 63.4 60.5 Number of Head 1. Per Cow Per Cow Per Cow 516.59 220.95 347.88 2. Net Value Produced 3. Other Miscellaneous Income 220.95 TOTAL INCOME 347.88 516.59 \$ 4. POUNDS OF FEED FED 5. 1,453.2 Corn 1,268.9 885.4 6. Small Grain 126.3 96.7 104.2 7. 560.1 84.4 124.7 Complete Ration 8. 240.1 137.7 209.1 Protein, Salt & Minerals 9. 2,866.8 2,258.0 1,816.2 Hay & Dry Roughage 10. 5,419.3 4,942.7 4,716.2 Silage 11. 410.7 422.4 821.1 Haylage 11A. 58.0 48.3 80.1 Milk12. 13. FEED COST 25.43 38.69 35.97 Grains 14. 8.90 6.01 4.40 Complete Ration 15. 34.94 32.79 32.36 16. Protein, Salt & Minerals 89.42 71.64 65.47 17. Hay/Haylage & Dry Roughage 41.45 49.54 46.21 18. Silage 9.13 6.18 5.14 Milk19. .96 .02 .71 20. Pasture 198.15 178.80 \$ 228.45 TOTAL FEED COSTS 21. (-7.51)149.72 337.81 22. RETURN OVER FEED COSTS OTHER DIRECT COSTS 23. 13.39 Miscellaneous Expense 12.43 13.70 24. 6.78 6.03 7.16 Veterinary Expense 25. 2.19 2.21 1.56 Custom Work Hired 26. 2.66 7.92 Special Hired Labor 27. 22.42 30.28 TOTAL OTHER DIRECT COSTS 23.34 28. (-37.79)315.39 RETURN OVER FEED & OTHER DIRECT COSTS \$ 126.38 29. 30. ALLOCATED COSTS 13.18 10.29 Power & Machinery Costs (PCAF .97)\$ 11.83 31. 13.61 5) 13.48 12.94 Livestock Equipment Costs (ECAF 32. 14.54 17.69 15.84 (BCAF 5) 33. Building and Fences 38.32 41.15 TOTAL ALLOCATED COSTS 42.40 34. 277.07 (-78.94)\$ 83.98 RETURN OVER ALL LISTED COSTS 35. SUPPLEMENTARY MANAGEMENT INFORMATION 36. 96.71 175.57 288.95 Return for \$100 Feed Fed 37. 8.3 Percent Death Loss - Total 7.8 5.7 38. 17.9 Percent Calf Death Loss 15.1 11.5 39. TOTAL LISTED COSTS PER HEAD 263.88 239.52 \$ 299.87 40.

Table 13 pertains to young dairy cattle only. The high and low averages are based on return above feed cost of the cows for these farms.

960.66

Utilities & Other General Farm Expense \$

41.

866.42

\$

820.01

TARLE 14 - COSTS AND RETURNS FROM ALL DAIRY CATTLE* - 1987

	14 - COSTS AND RETURNS FROM ALL DAIRY C	 Average		28 Farms		28 Farms
Items		of 140 Farms		Highest : Return Ai		Lowest in Return Above
		 		Feed Cos	t	Feed Cost
1.	Average Number of Cows	50.7		53.1		45.8
		Per Cow		Per Cow		Per Cow
2.	Value of Dairy Products	\$ 1,843.45	\$	2,104.39	\$	1,559.13
3.	Net Change in Value	348.97		<i>536</i> , 29		199.96
4.	Miscellaneous Dairy Income	6.00		5.12		5.66
5.	TOTAL VALUE PRODUCED	\$ 2,198.44	\$	2,645.80	\$	1,764.72
6.	POUNDS OF FEED FED					
7.	Grains	7,550.6		7,227.7		8,405.3
8.	Complete Rations	345.0		732.3		122.9
9.	Protein/Salt/Minrl., Incl.Milk Equiv.	1,697.6		2 , 449.9		1,319.6
10.	Hay and Dry Roughage	8,461.7		8,451.8		9,855.6
11.	Silage	14,678.6		13,136.4		17,223.5
11A.	Haylage	3,797.4		4,674.1		1,149.3
12.	FEED COSTS					
13.	Grains	\$ 186.75	\$		\$	
14.	Complete Rations	18.70		27.46		12.69
<i>15.</i>	Protein/Salt/Minrl./Including Milk	240.81		230.90		211.00
16.	Hay/Haylage and Dry Roughage	316.02		328.34		320.72
17.	Silage Silage	148.17		120.24		204.91
18.	Pasture Costs	1.87		1.62		2.73
19.	TOTAL FEED COSTS	\$ 912.29	\$	889.87	\$	953.54
20.	RETURN OVER FEED COST	\$ 1,286.15	\$	1,755.91	\$	811.18
21.	OTHER DIRECT COSTS				_	7.70.07
22.	Miscellaneous Livestock Expense	\$ 162.37	\$		\$	118.84
23.	Veterinary Expense	51.22		59.42		39.59
24.	Custom Work	57.10		58.38		52.86
25.	Special Hired Labor	18.99		17.80		15.74
26.	TOTAL OTHER DIRECT COSTS	\$ 289.68	\$	336.50	\$	227.03
27.	RETURN OVER FEED & OTHER DIRECT COSTS	\$ 996.47	\$	1,419.42	\$	584.17
28.	ALLOCATED COSTS		و	7.0	4.	
29.	Power & Machinery Costs	\$	\$		\$	
30.	Livestock Equipment Costs	97.45		114.46		74.15
31.	Building and Fences	120.22		120.27		104.73
32.	TOTAL ALLOCATED COSTS	\$ 300.79	\$	311.58	\$	265.55
33.	RETURN OVER ALL LISTED COSTS	\$ 695.68	\$	1,107.83	\$	318.62
34.	SUPPLEMENTARY MANAGEMENT INFORMATION					105.05
<i>35</i> .	Return for \$100 Feed Fed	\$	\$		\$	
<i>36</i> .	TOTAL LISTED COSTS PER COW	\$ 1,502.76	\$	1,537.95	\$	3 1,446.11
37:	Utilities & Other General Farm Expense	\$ 5,571.69	\$	5,709.47	\$	4,539.89

^{*}Table 14 presents a picture of the costs and returns from the whole dairy herd on a per cow basis. Return above feed cost was the factor used to determine these high and low average farms.

TABLE 15A - BEEF BREEDING CATTLE - 1987

Item		 Average of 8 Farms
1.	Average Number of Reaf Cours	 39.8
2.	Average Number of Beef Cows Average Number of Other Beef Animals and Bulls	26.9
3.	Pounds of Beef Produced	19,817
٥.	Tourist of Beel Florideed	,
		Per Cow
4.	Net Value Produced	\$ 417.46
5.	Other Miscellaneous Beef Income	
6.	TOTAL VALUE PRODUCED	\$ 417.46
7.	POUNDS OF FEED FED	
8.	Grain	641.2
9.	Protein, Salt & Mineral	231.3
10.	Legume Hay	3,192.8
11.	Other Hay & Dry Roughage	5,807.8
12.	Silage	2,525.1
12A .	Haylage .	
13.	FEED COST	
14.	Grain	\$ 19.40
15.	Protein, Salt & Mineral	26.93
16.	Legume Hay/Haylage	82 . 56
17.	Other Hay & Dry Roughage	28 . 67
18.	Silage Silage	24.02
19.	Pasture	9.17
20.	TOTAL FEED COSTS	\$ 190.75
21.	RETURN OVER FEED COST	\$ 226.73
22.	OTHER DIRECT COSTS	
23.	Miscellaneous Livestock Expense	\$ 34 . 65
24.	Veterinary Expense	16.28
25.	Custom Work	1.51
26.	Special Hired Labor	
27.	TOTAL OTHER DIRECT COSTS	\$ 52.44
28.	RETURN OVER FEED & OTHER DIRECT COSTS	\$ 174.27
29.	ALLOCATED COSTS	
30.	Power and Machinery Costs (PCAF 1.00)	\$ 13.16
31.	Livestock Equipment Costs (ECAF 5)	13.99
32.	Building and Fences (BCAF 5)	27.81
<i>33</i> .	TOTAL ALLOCATED COSTS	\$ 54.95
34.	RETURN OVER ALL LISTED COSTS	\$ 119.32
35.	SUPPLEMENTARY MANAGEMENT INFORMATION	
36.	Return for \$100 Feed Fed	\$ 218.85
37.	Price per Cwt. Sold	59.27
38.	Price per Cwt. Calves Sold or Transferred	\$ 59 . 45
39.	Average Weight per Head Sold	1,083.1
40.	Average Weight per Calf Sold or Transferred	609.0
41.	Percent Death Loss	1.9
42.	Percent Calf Crop	95.0
42A.	Percent Calf Death Loss	5.3
43.	TOTAL LISTED COSTS PER COW	\$ 298.17
44.	Utilities & Other General Farm Expense	\$ 911.63

Table 15A includes only those farms with ten or more cows in the beef breeding herd. Net increase in value of calves whether sold or transferred to the feed lot.

TABLE 15B - COSTS AND RETURNS FROM FEEDER CATTLE - 1987

Items			Average of 78		16 Highes in Return		16 Lowest in Return
1 CEIIIS			Farms		Above Fee		Above Feed
1.	Average Number of Beef Feeders		55.4		26.6		32.5
2.	Pounds of Beef Produced		44,651		23,661		27,852
			Per Cwt.		Per Cwt.		Per Cwt.
3.	Net Value Produced	\$	60.13	\$	74 . 56	\$	43.72
4.	Other Miscellaneous Beef Income	\$	60 12	\$	74.56	\$	43.72
5.	TOTAL VALUE PRODUCED	Φ	60.13	φ	74.50	φ	43.72
6.	POUNDS OF FEED FED						
7.	Grain		566.4		499.1		588.0
8.	Protein, Salt & Mineral		41.1		33.3		21.4
9.	Legume Hay		75.0		90.8		142.6
10.	Other Hay & Dry Roughage		39.4		89.0		26.9
11.	Silage		383.4		520.7		256.7 527.3
11A.	Haylage		223.8				327.3
12.	FEED COST						
13.	Grains	\$	13.93	\$	11.50	\$	14.15
14.	Protein, Salt & Minerals		6.38		5.38		5.76
15.	Legume Hay/Haylage		3.55		2.73		6.65
16.	Other Hay & Dry Roughage		.53		1.57		.34
17.	Silage .		3.85		4.85		2.50
18.	Pasture	d	.05	4	06.04	ф	.21
19.	TOTAL FEED COSTS	\$	28.29	\$	26.04	\$	29.60
20.	RETURN OVER FEED COSTS	\$	31.84	\$	48.52	\$	14.12
21.	OTHER DIRECT COSTS						
22.	Miscellaneous Livestock Expense	\$	1.19	\$	2.02	\$.66
23.	Veterinary Expense		1.25		2.07		.22
24.	Custom Work Hired		1.99		1.64		1.44
25.	Special Hired Labor	dı	.04	ф	E 70	φ	.05
26.	TOTAL OTHER DIRECT COSTS	\$	4.46	\$	5.72	\$	2.37
27.	RETURN OVER FEED & OTHER DIRECT COST	S \$	27.38	\$	42.79	\$	11.75
28.	ALLOCATED COSTS						
29.	Power & Machinery Costs (PCAF 0.		1.20	\$	1.07	\$	1.35
30.	Livestock Equipment Costs (ECAF	4)	1.86		1.54		1.36
31.	Building and Fences (BCAF	4)	2.47	φ	4.07	φ	(-0.25)
32.	TOTAL ALLOCATED COSTS	\$	5.53	\$	6.69	\$	2.45
33.	RETURN OVER ALL LISTED COSTS	\$	21.86	\$	36.11	\$	9.31
34.	SUPPLEMENTARY MANAGEMENT INFORMATION						
<i>35.</i>	Return for \$100 Feed Fed	\$	212.57	\$	286.29	\$	147.71
<i>36</i> .	Price per Cwt. Sold	\$	61.10	\$	62.72	\$	60.77
37.	Average Weight per Head Sold		1,185.6		1,086.0		1,190.4
38.	Price per Cwt. Bought	\$	76.43	\$	70.96	\$	135.86
39.	Average Weight per Head Bought	•	427.6		421.8		269.7
40.	Number of Head Bought		52		26		20
41.	Percent Death Loss	. / D	3.3		4.0		3.6
42.	Effective Daily Gain - Pounds/Head		2.21		2.45	d	2.35
43.	TOTAL LISTED COST PER CWT. PROD.	\$	38.27	\$	38.45	\$	34.41
44.	Utilities & Other General Farm Expen	se \$	677.03	\$	541.25	\$	554.33

Farms producing more than 5,000 pounds of beef from a cattle feeding enterprise are included in Table 15B. The figures presented are calculated from the annual record; thus inventories, as well as purchases and sales, are included in the production and cost figures.

TABLE 16A - 6670 - SHEEP, FARM FLOCK - 1987

IADLE	16A - 6670 - SHEEP, FARM FLOCK - 1987		Average
Items			of 10 Farms
			raims
1.	Average Number of Ewes		24.2
2.	Pounds of Lamb & Mutton Produced		2,016
3.	Pounds of Wool Produced		202
4.	VALUE OF PRODUCE		Per Ewe
5.	Woo1	\$	8.76
6.	Net Value Produced - Animals		65.66
7.	Other Miscellaneous Sheep Income		7.4.40
8.	TOTAL VALUE PRODUCED	\$	74.42
9.	POUNDS OF FEED FED		
10.	Grain		281.2
11.	Protein, Salt & Mineral		40.8
12.	Legume Hay		847.9
13.	Other Hay & Dry Roughage		34 . 7
14.	Silage		16.5
14A.	Haylage		
15.	FEED COST	d.	6 10
16.	Grain	\$	6.49 6.40
17.	Protein, Salt & Mineral		27.56
18. 19.	Legume Hay/Haylage Other Hay & Dry Roughage		• 54
20.	Silage		.17
21.	Pasture		
22.	TOTAL FEED COSTS	\$	41.12
23.	RETURN OVER FEED COSTS	\$	33.26
24.	OTHER DIRECT COSTS		
25.	Miscellaneous Livestock Expense	\$	4.92
26.	Veterinary Expense		2.40
27.	Custom Work		2.36 .83
28.	Special Hired Labor	\$	10.50
29.	TOTAL OTHER DIRECT COSTS	Ψ	10.50
30.	RETURN OVER FEED & OTHER DIRECT COSTS	\$	22.81
31.	ALLOCATED COSTS	d	/ 07
32.	Power and Machinery Costs (PCAF .75) Livestock Equipment Costs (ECAF 3)	\$	4.87 5.03
33. 34.	Livestock Equipment Costs (ECAF 3) Building and Fences (BCAF 3)		8.14
35 .	TOTAL ALLOCATED COSTS	\$	
JJ.	TOTAL ALLOCATED GOOTS	·	
36.	RETURN OVER ALL LISTED COSTS	\$	4.75
37.	SUPPLEMENTARY MANAGEMENT INFORMATION	4	101 01
38.	Return for \$100 Feed Fed	\$	
39.	Price per Cwt. Lamb & Mutton Sold	\$	72.38 72.46
40.	Price per Cwt. Lamb Sold or Transferred	Φ	111.7
41. 42.	Average Weight of Lambs Sold or Transferred Pounds of Wool per Sheep Sheared		10.6
43.	Number of Ewes Kept for Lambing		23
44.	Percent Lamb Crop		104,3
45.	Percent Death Loss		15.4
45A.	Percent Lamb Death Loss		16.7
46.	TOTAL LISTED COSTS PER EWE	\$	
47.	Utilities & Other General Farm Expense	\$	182 . 62

AVERAGE PRICES FOR FARM GROWN FEEDS - 1987

<u>Grain</u>

Corn \$ 1.30 Per Bu.

Oats 1.60 Per Bu.

Hay

Other Roughages

 Corn Silage
 \$ 20.00 Per Ton

 Oatlage
 18.00 Per Ton

 Legume Haylage
 30.00 Per Ton

 Straw
 .75 Per Bale

OTHER NON-CASH COSTS

Unpaid Family Labor \$ 625.00 Per Month (25 da/mo)

Board Furnished Hired Labor \$ 6.00 Per Day

Second Operator's Labor \$ 900.00 Per Month

Interest on Farm Capital 7 Percent

Milk Used in Home \$.23 Per Quart

Dollars Off Farm Income Per Work Unit \$ 40.00 Per Work Unit

EXPLANATION OF WORK UNITS AND ANIMAL UNITS

The total "work units" for any one farm is a measure of the size of that farm business. A work unit as used in this report is the average accomplishment of a farm worker, in a ten hour day, working on crops and productive livestock at an average efficiency. The number of work units for each class of livestock and each acre of crop are presented below.

NUMBER OF WORK UNITS FOR EACH CLASS OF LIVESTOCK & EACH ACRE OF CROP

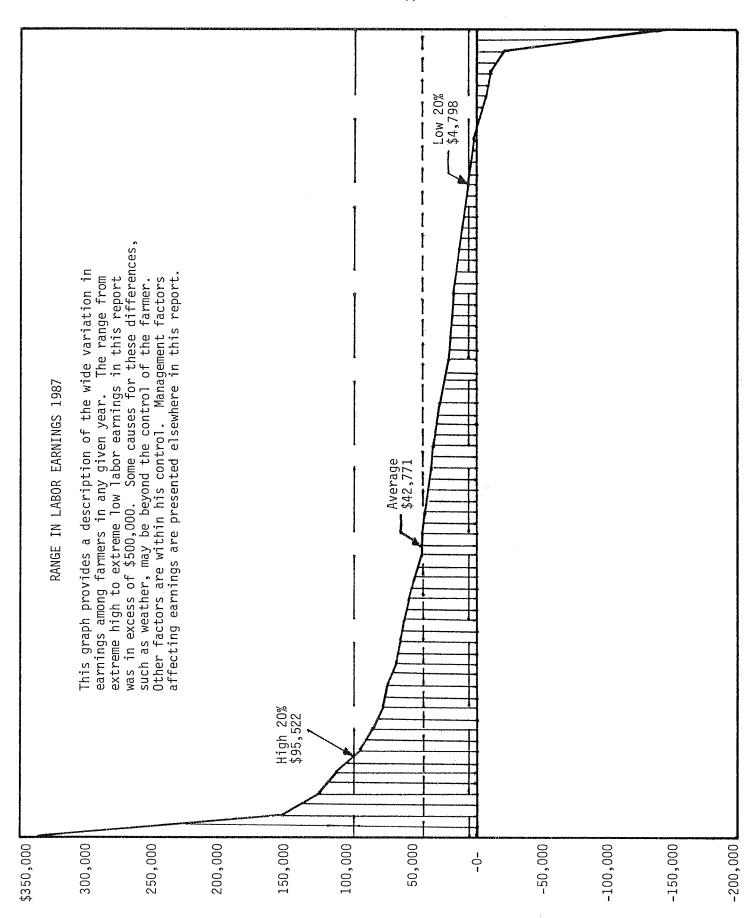
NUMBER OF WORK UNITS		F LIVESIUCK & EACH ACKE OF CRUI	
	No. of	_	No. of Work
Item	Work Units	Item	Units/Acre
			221
Dairy Cow Purebred	7.2/cow	Barley, Wheat, Oats, Rye	.30/acre
Dairy Cow	7.0/cow	Canning Peas	.40/acre
Other Dairy Cattle		Oat Silage	.40/acre
Commercial Replacements	1.2/head	Canning Corn	.50/acre
Other Dairy Cattle		Corn for Grain, Sunflowers	.55/acre
Purebred Replacements	1.3/head	Soybeans	.45/acre
Beef Breeding	1.5/cow	Corn and Cane Silage	.60/acre
Beef Feeders	.12/cwt.	Alfalfa Hay	.60/acre
Hogs - Complete	.12/cwt.	Other Legume and Mixed Hay	.40/acre
Hogs - Finishing	.06/cwt.	Tame Grass Hay	.30/acre
Hogs - Weaning Pigs	1.4/litter	Annual Hay	.40/acre
Sheep - Farm Flock	.60/ewe	Legume and Grass Silage	
Lambs - Feeder	.30/cwt.	or Haylage	.40/acre
Chickens - Laying Flock, Farm	5.0/100	Legume and Grass Seed	.50/acre
Chickens - Laying Flock, Commer	cial 4.0/100	Summer Fallow Tilled	.20/acre
Broilers	.20/cwt.	Wild Hay	.20/acre
Labor off the Farm	1.0/\$40	Set Aside Acres Idle	.05/acre

"Animal units" indicate density of livestock on a farm. Feed requirement is the basis for assigning unit value to the various classes of livestock as follows:

Dairy Cow	1.0	unit	per	COW
Other Dairy Cattle	• 5	unit	per	head
Beef Breeding Cows and Bulls	. 8	unit	per	head
Other Beef Breeding	. 3	unit	per	head
Feeder Steers and Heifers	1.0	unit	per	head
Hogs (swine over 6 months old)	. 4	unit	per	hog
Pigs (swine less than 6 months old)	. 2	unit	per	pig
Sheep (6 months or older)		unit		
Lambs (under 6 months)	.071	unit	per	head
Laying Hens	.005	unit	per	head
Broilers	.003	unit	per	head

SUMMARY OF MISCELLANEOUS ITEMS BY YEARS

Items		1982		1983		1984		1985		1986
Number of Records Average Labor Earnings Total Farm Sales Total Cash Operating Expense		160,922	\$ \$	<i>171,168</i>	\$ \$	434 (-1,165) 166,395 94,620	\$ \$		\$ \$	464 14,070 172,548 94,861
RETURN ABOVE FEED COST PER: Dairy Cow Cwt. Feeder Cattle Prod. Cwt. Hogs Produced	\$ \$ \$	990.21 22.26 33.76	\$	10.80	\$	904.75 16.50 18.81	\$	1.77	\$	
FEED COST PER: Dairy Cow Cwt. Feeder Cattle Prod. Cwt. Hogs Produced	\$ \$ \$	38.69	\$	43.96	\$	796.36 42.19 29.04	\$		\$	
MISC. LIVESTOCK INFORMATION Number of Dairy Cows Pounds of Feeder Cattle Prod. Pounds of Hogs Produced Pounds of Butterfat per Cow		45.7 48,717 176,443 504.9				45.2 44,734 198,049 495.0		47.8 29,925 135,181 526.4		50.4 31,729 124,560 541.6
PRICE RECEIVED PER: Pound Butterfat in Milk Cwt. Fat Cattle Cwt. Hogs Sold	\$ \$ \$	3.60 61.17 53.57	\$	59.46	\$	60.62	\$		\$	
PRICE OF FEED Corn, Bushel Oats, Bushel Alfalfa Hay, Ton Corn Silage, Ton	\$ \$ \$	2.20 1.70 75.00 18.00	\$ \$	70.00	\$ \$	1.50 70.00	\$ \$	2.35 1.75 70.00 20.00	\$ \$	1.15 65.00
ACRES PER FARM Total Tillable Land Total Acres in Farm		347.7 373.6		358.5 385.8		369.4 396.4		379.1 407.9		403.4 431.3
YIELDS PER ACRE Canning Peas Oats, Bushel Corn Grain, Bushel Sweet Corn Soybeans, Bushel Corn Silage, Ton Alfalfa Hay, Ton	\$	80.5 130.8	\$	63.8 94.7	\$	74.8 128.5		74.2 134.1	\$	249.25 58.0 135.0 223.47 39.8 18.4 4.3



SETTING GOALS

One of the primary aims of the farm management education program is to assist farmers in reaching their farm and family goals.

Clarifying their ideas as to what they really want is a very important step in improving the farm business and as a result improve family living.

Sitting down as an operator or husband and wife and putting these wants in writing is done in one of the early classes in the adult farm management education program.

Planning goals is not easy. All members of a family may not agree on what goals are most important. The family may have to give serious thought and discussion to the goals they choose so that all members of the family can benefit from the farming business. Not all goals are related to farm income. Some very important goals for a family may be in the area of social, community, family, church and educational activities.

Setting up goals in a systematic way lets the family fit the wants and desires of all the family members into a plan. There are no right or wrong goals, since each family may approach the problems and opportunities they have in a different way. It is important that goals be reviewed frequently to see if conditions have changed. If the goals are too inflexible, they may be a liability to progress rather than an asset.

A COMPARISON OF SELECTED ITEMS BY YEAR

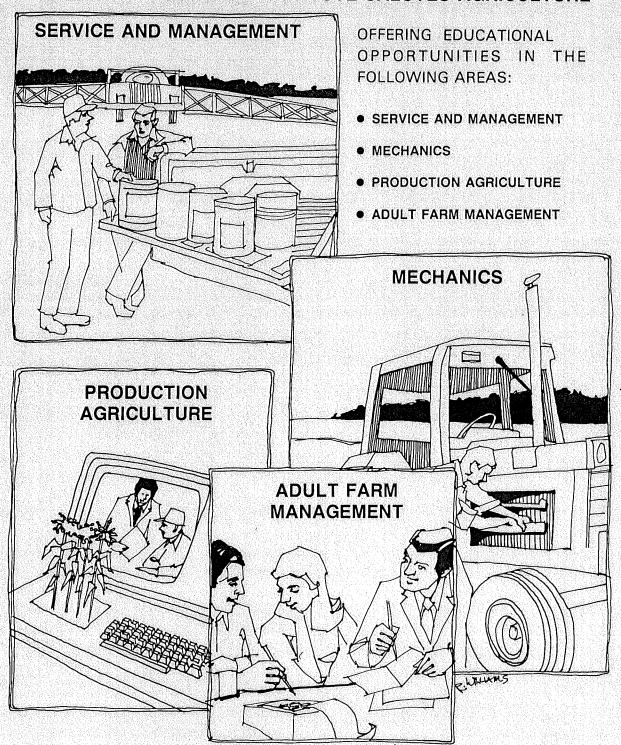
Item	1955	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Farm Size (Acres) Total Tillable	211	377.8 343.6	379.7 343.6	371.9 341.1	374.8 349.7	373.6 347.7	385.8 358.5	396.4 369.4	407.9 379.1	431.3	404.2 375.7
Business Size-Work Units	329.6	382.79	415.11	417.90	431.53	435.37	423.87	457.21	471.81	486.23	455.22
Return to Operator Labor and Management (WF)	1859	31839	19713	33049	(-5768)	14681	15145	(-1165)	2737	14070	42771
Return to Capital and Family Labor (OS)	3396	39160	29555	40243	1248	17893	21798	5553	9548	19863	46193
Average Investment per Farm Business (T.1)	50115	414959	480769	531807	570947	577937	625493	640874	597401	536710	483773
Total Farm Sales (T.2A)	17207	128107	142305	152299	161363	160922	171168	166395	165879	172548	183634
Total Farm Purchases (T.2B)	12333	107843	123260	119583	129850	120804	121277	119541	105185	112345	123324
Ratio: Total Farm Expense to Total Farm Receipts (T.5)	. 899	.823	. 895	.821	1.021	.932	.902	1.007	696•	.920	.794
Ratio: Total Assets to Total Liabilities (T.5)	4.772	2.513	2.473	2,333	2.140	2.035	2.022	2.048	2.043	2.108	2,177
Gain in Net Worth $(T.5)$	763	27234	18754	28973	(-15187)	1544	9746	(-9273)	(-3263)	10210	28242
Interest Paid as a % of Total Cash Operating Expense	4.5	10.3	11.4	14.0	16.5	17.1	17.8	16.1	16.1	13.3	11.76
Percent of Total Income from Livestock (WF)	24.3	31.8	27.5	22.2	28.8	6.04	23.3	31.5	31.9	41.6	37.0
Percent of Total Income from Crops (WF)	73.2	65.2	69.2	75.3	67.4	55.0	72.7	63.7	61.7	52.0	58.9
Percent of Total Income from Misc. Sources (WF)	2.5	3.0	3.3	2.5	3.8	4.1	4.0	4.8	6.4	6.4	4.1
Annual Cash Family Living Expenses (T.4)	2832	17998	21320	21136	26812	26704	24097	22920	21627	22105	26283
Monthly Family Living Exp.	236	1500	1777	1761	2234	2225	2008	1910	1802	1842	2190

A COMPARISON OF SELECTED ITEMS BY YEAR

Item	1955	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
RETURN OVER FEED COSTS PER:											
Dairy Cow	129.35	791.96	943.23	949.04	1007.29	990.21	913.76	904.75	961.75	969.32	1097.37
Beef Cow	-20.05	258.95	124.11	100.12	74.31	18.80	-137.71	-258.33	-92.07	98.91	226.73
Cwt Feeder Cattle	2.99	28.63	21.95	6.84	4.90	22.26	10.80	16.50	1.77	19.49	31.84
Cwt Finishing Hogs	.98	13.05	4.26	7.35	4.77	19.76	9.19	11.55	10.61	19.83	17.21
YIELD PER ACRE:											
Corn, bushel	65.8	127.8	125.5	115.6	120.9	130.8	94.7	129.1	134.1	135.0	143.0
Soybeans, bushel	25.3	41.0	36.6	36.7	32.0	39.3	35.9	39.9	37.2	39.8	44.0
Oats, bushel	51.9	66.6	65.0	77.2	61.8	80.5	63.8	74.8	74.2	58.0	49.3
Wheat, bushel	31.3	26.8	34.2	46.6	38.7	40.3	29.5	42.9	53.6	37.8	30.3
Corn Silage, Ton	9.9	18.7	19.7	16.2	16.8	17.9	13.9	21.5	18.5	18.4	19.1
Alfalfa Hay, Ton	2.7	5.0	5.4	4.3	4.5	4.3	4.9	4.8	4.7	4.3	4.2
RETURN OVER LISTED COSTS PER	ACRE:										
Corn	N/A	39.03	31.11	72.83	7.29	-15.29	13.13	34.75	12.90	-3.96	87.12
Soybeans	N/A	106.05	55.31	115.94	30.40	-5.31	100.27	16.08	-7.55	16.52	42.12
0ats	N/A	-21.44	-13.57	20.01	39.15	-11.41	-26.67	-3.95	-17.18	-27.47	-23.37
Wheat	N/A	-32.31	. 41	52.01	14.64	5.20	-23.43	10.64	27.69	2.37	-24.80
AVERAGE COSTS PER TILLABLE A	CRE:										
Tractor & Crop Machinery Expense/Crop Acre (T.8)	12,95	41.37	48.09	53 . 70	56.99	56 . 87	57.59	58.04	54.26	48.09	47.66
Fertilizer Cost (T.9)	2.78	20.56	22.35	26.72	30.81	27.33	24.36	27.59	25.34	20.61	18.17
Crop Chemical Cost (T.9)		11.65	14.38	15.06	17.66	18.95	18.64	20.40	17.01	15.91	15.93

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