Vocational Agriculture Farm Management Program

> 1972 Annual Report

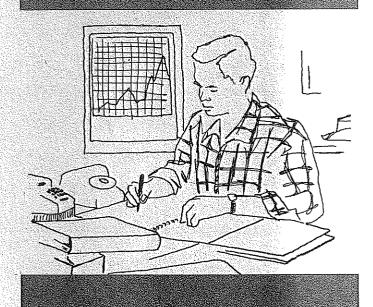
> > In Cooperation With

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

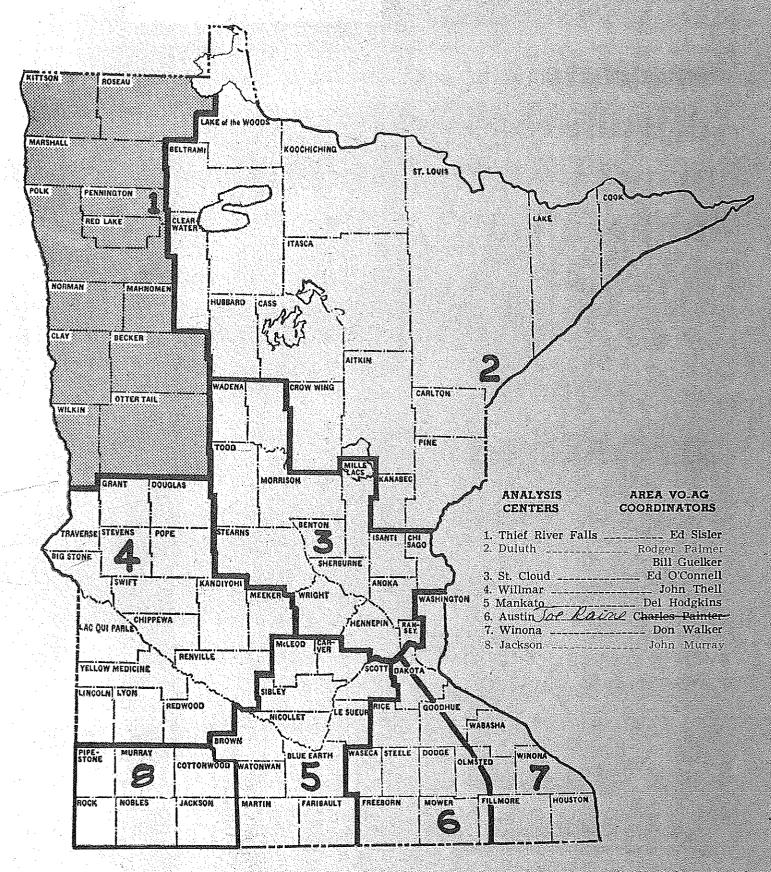
PERSONAL COPY OF:

Verne Spengler

NORTHWESTERN MINNESOTA REPORT NO. 18 AREA VOCATIONAL TECHNICAL INSTITUTE THIEF RIVER FALLS MINN.



## **VO-AG FARM MANAGEMENT AREAS**



<sup>\*</sup> Shaded Area Served by the Thief River Falls Analysis Center

The Minnesota Vocational Agriculture Farm Management Program is available to all Minnesota farmers through their local Vocational Agricultural Instructor.

There are two basic plans available to farmers.

A. Annual analysis program (Adequate for the majority of farmers)

For a cost of about \$30.00, the farmer receives a computerized depreciation schedule, and a very complete enterprise analysis of his farming operation. In addition he will be working with a Farm Management Instructor who teaches him basic accounting procedures and helps him to budget, interpret his analysis, plan his operation, and plan his credit needs. The ag man also helps him keep up with the latest agricultural developments. In short, the "Ag Man" helps the farmer to get the most out of his farm and himself.

### B. Monthly analysis program

This program has been developed for those farmers who need more current evaluation, and is called a monthly "mail-in". The cooperators in this program receive a monthly return, primarily cash flow, and pay \$125.00 per year. In addition to the monthly return, they receive the detailed annual enterprise analysis which the annual analysis program cooperators receive. They work as closely with their Farm Management Instructor as do those in the annual analysis program.

The program has grown rapidly. Farmers, credit sources, and Agribusinessmen enthusiastically endorse it. This year over 3700 Minnesota farmers are enrolled. This program is now extending into North Dakota, Alaska, Oregon, Connecticut, Nebraska, Washington, Wisconsin, South Dakota, and Iowa.

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# 1972 REPORT OF THE FARM MANAGEMENT PROGRAM FOR VOCATIONAL AGRICULTURE IN NORTHWESTERN MINNESOTA

### HERE'S WHERE YOU'LL FIND THE INFORMATION

Introduction
1972 in a Nutshell
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The following table and enterprise were not included in the averages because the number of farms were too limited to provide reliable average information:

Table 16B - Feeder Lambs

### LET'S GET ACQUAINTED

The Vocational Agriculture Farm Management Program in Northwestern Minnesota is prepared by the Thief River Falls Area Vocational Technical School in cooperation with the Minnesota Department of Education and the Agricultural Education Department of the University of Minnesota. Since the initiation of the program in Thief River Falls in 1955, eighteen annual reports have been prepared.

This report is published annually to provide farmers, agriculture instructors, and others with farm record analysis information which will be helpful to them in studying farming operations. The report is set up to show each cooperating farmer's individual figures for his farm, and comparisons with the averages, the top twenty per cent and the bottom twenty per cent of the farms in the analysis. The report presents each farmer with figures showing his earnings, increase or decrease in net worth, financial standing and a number of efficiency factors on his various enterprises.

The analysis of the records and the preparation of the reports for Northwestern Minnesota are done under the direction of Ed Sisler of the Area Vocational Technical School at Thief River Falls. A special thank you is awarded the clerical staff for their patience, perserverence, and dedication to the project. The staff this year is: Phyllis Moum, Marie Sorensen, Roberta Kosel, Connie Mehrkens, Shirley Koop, Betty Ueland, Fay Gullickson, Bonnie Haglund, Betty Johannson, and Beverly Hest. Gladys Narverud prepared the manuscript.

The Farm Management Program is supervised locally by Dr. William Corliss, Superintendent of Thief River Falls Public Schools and Arnt Aune, Director of the Area Vocational Technical School, Thief River Falls, Minnesota. Mr. Paul Day of the State Department of Education, Dr. Ed Persons of the University Department of Agricultural Education, and Dr. T.R. Nodland of the Agricultural Economics Department have been available as consultants.

This analysis center utilizes the Agricultural Records Cooperative's automatic data processing facilities to streamline its operation.

While 488 records were included in the averages 600 records were processed.

This report deals with farmers enrolled in thirty schools in North-western Minnesota. The following tabulation shows the number of farmers submitting 1972 farm records for analysis, the schools cooperating and the names of the Vo-Ag instructors from these schools.

School	No. of Cooperators	Instructor
Ada	8	Lowell Gunderson
Agassiz Valley Center Sch	ool 6	Paul Ramsey
Barnesville	8	David Bakken
Battle Lake	7	Alton Carlson
Breckenridge	6	Rod Carter
Crookston Technical Colle	ge 9	Erman Ueland
Detroit Lakes	22	Jerry Bartel
•	43	Clayton Olsen
	46	Duane Lemmon
Fergus Falls	33	Bert Winger
Fertile	54	Conrad Carlson
Fosston	25	Dean McNelly
•	23	David Gilbertson
Goodridge	36	Wallace Shodean
Greenbush	5	Art Boese
Hallock	4	Jerry Siebold
Hawley	42	John Hest
Henning	21	Charles Erickson
Humboldt	1	Roger Schwenzfeier
Karlstad	2	Harlan Hokanson
Mahnomen	25	Pete Revier
Moorhead	19	Ray Maxson
Pelican Rapids	13	Budd Andrews
Perham	23	Jerry Beck
Plummer, Red Lake Falls,		Harry Oen
Roseau	3	Bud Leverington
	38	Gary Olson
Thief River Falls	46	Don Johnsen
•	47	Verne Spengler
	5	Alan Dalen*
Twin Valley	20	Marvin Hanson
Ulen	13	Merlin Skretvedt
Areas not served by Vo-Ag	Depts. 7	Ed Sisler
		Vo-Ag Coordinator
	• •	

Total

687

### WHY KEEP FARM RECORDS

Systematic use of records seems to raise the managerial level of the farmers. Once a farmer starts using records to check up on his performance, it is likely that he will continue for some years to improve his position above that of his less systematic neighbor.\*\*

<sup>\*</sup>Post High Agriculture Instructor

<sup>\*\*</sup>Britannica Research Service

### 1971 - 1972 IN A NUTSHELL

	<u>1971</u>	<u>1972</u>
Labor Earnings (operator's share)	\$	
Return to Capital & Family Labor	\$	
Net Worth	\$	
Ratio of Current Assets & Machinery to Current Liabilities	ng displanting malayana	
Ratio of Real Estate Assets to Real Estate Liabilities		
Ratio of Total Assets to Total Liabilities		<del></del>
Expenses per Dollar Income		
	***************************************	
SIZE		
Tillable Acres		
Work Units* - Crops	· · · · · · · · · · · · · · · · · · ·	
Livestock	-	in wining
Other		
Total	pathography and an analysis of the second	
Total Farm Capital	\$	······································
*One work unit equals one ten hour day		
GROSS FARM EARNINGS		
Livestock	\$	
Crops	\$ <u></u> _	
Other	\$	

### WHAT IS THE CAPITAL INVESTMENT PICTURE IN OUR FARM BUSINESS?

Table 1. Summary of Farm Inventories, 1972

<u>Ta</u>	ble 1. Summary of Farm Inventories, 19/2	<u></u>			· · · · · · · · · · · · · · · · · · ·
			Average of	482	Farms
$\operatorname{\mathtt{It}}$	ems		Jan. l		Dec. 31
l.	Size of farm - Total acres		570.8		
2.	- Tillable acres		467.0		
3.	Work units - crops		167.73		
4.	- livestock		176.90		
5.	- other		6.60		
	Total size of business in work units		351.23		
	Number of workers		1.5		
	Farm capital investment per worker		69772		
1 ***	Towns of the second sec		95110		
8.	PRODUCTIVE LIVESTOCK				
9.	Dairy cows		4438		4868
10.	•		2621		3319
11.			3936		
12.	<u> </u>		1773		4930
13.					1784
	Hogs		824		1072
14.	Sheep (incl. feeders)		309		350
15.	Poultry (incl. turkeys)		62		50
16.	Other productive livestock	*	28		. 70
17.	Total Productive Livestock	\$	13991		16449
18	CROP, SEED AND FEED		8152		9683
	onor, order reduc		0172		3007
19.	POWER, MACHINERY AND EQUIPMENT				•
20.			2024		2232
	Power and machinery		10456		12085
	Livestock equipment		1393		1621
23.	****	\$	13873		
٠).	rotar rower, machinery & Equip.	Φ	10010		15938
24.	LAND		47051		48450
	BUILDINGS-FENCES-ETC.		9480		10555
-/•	The second section of the section of section of the section of the second section of the section		J-7-00		±0,7,7
26.	TOTAL FARM CAPITAL	\$	92547		101075

Table 1 lists the categories of farm capital for the average of farms and for the 96 most profitable and 96 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.

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	1	Summary	$\alpha f$	Farm	Inventories,	1972
TONFE	اها.	Y STATISTICS A	U.L	غلنا السالة الد	T111 A C11 A C T T C C A	24 / 1 C

<u>TH.</u>	ble 1. Summary of Farm Inventories, I	212	96 High	ı Farms	96 Low	Farms
It	ems		Jan. 1.		Jan. l.	Dec. 31
1.	Size of Farm - Total acres		958.5		427.9	
2.	- Tillable acres		837.6		336.2	
	Work Units - crops		312.16		109.94	
4.	- livestock		278.41		86.79	
5.	- other		9.80		3.75	
-	Total Size of Business in Work Units		600.37		200.48	
	Number of Workers		2.2		1.3	
	Farm Capital Investment Per Worker		93977		61155	
8.	PRODUCTIVE LIVESTOCK					
9.	Dairy cows		5740	6451	2277	2234
10.	Other dairy cattle		3282	4140	1123	1323
11.	Beef breeding cattle		6381	8845	3906	4338
12.	Beef feeder cattle		4594	4173	1460	1344
13.	Hogs		1096	1926	920	846
14.	Sheep (incl. feeders)		783	986	125	204
15.	Poultry (incl. turkeys)		229	202	5	5
16.	Other productive livestock		141	349		
17.	Total Productive Livestock	\$	22246	27072	9816	10294
18.	CROP, SEED AND FEED		16198	21350	5384	4841
19.	POWER, MACHINERY AND EQUIPMENT					
20.	Auto and truck (farm share)		3322	3775	1614	1712
21.	Power and machinery		18151	21681	6742	7575
22.	Livestock equipment		2601	3082	786	895
23.	Total Power, Machinery & Equip.	\$	24074	28538	9142	10182
24.	LAND		75054	77764	45123	46233
	BUILDINGS-FENCES-ETC.		14897	17372	8118	8380
26.	TOTAL FARM CAPITAL	\$	152469	172096	77583	79930

Table 2A. Whole Farm Summary of Cash Re	eceipts, 1972		
	Average of 482	96 Most Prof.	96 Least Prof.
Items	Farms	Farms	Farms
- CATTO OF THE CONTROL OF THE CONTRO	TO TO CO		
1. SALE OF LIVESTOCK AND LIVESTOCK PRODU		7 7552	000
2. Dairy cows	1212	1553	807
<ul><li>Jairy products</li><li>Other dairy cattle</li></ul>	7945 1383	11189 1529	2930 489
4. Other dairy cattle 5. Beef breeding cattle	1545	2329	1313
6. Beef feeder cattle	2395	6234	1669
7A Hogs complete	989	1527	966
7B Hogs finishing	209	42	159
70 Hogs producing weaning pigs	979	1974	783
8A Sheep and wool, farm flock	424	1390	167
8B Sheep and wool, feeder lambs	26		
9. Chickens (incl. hens and broilers)	29	90	17
10. Turkeys	521	1511	
11. Eggs	. 138	548	1
12. Other productive livestock	79	396	
12A. Total Sales of Productive Livest	ock \$17874	30312	9301
13. SALE OF CROPS			
14. Corn	533	1157	543
15. Soybeans, flax, sunflowers	1266	2923	1241
16. Wheat, oats, barley, rye	8083	18249	4811
17. Potatoes, sugar beets, other crops	516	2407	37
18. Hay, silage and other crops	498	1318	244
19. Set aside acres	1186	2404	833
19A. Total Sales From Crops	\$ 12082	28458	7709
20. Capital Assets Sold	709	882	318
21. Gas Tax Refund	145	229	104
22. Income From Work Off The Farm	319	585	206
23. Patronage Refunds	347	709	176
24. Miscellaneous Farm Income	1378	2634	1051
25. Total Farm Sales	\$ 32854	63809	18865
26. Increase in farm capital	8527	19625	2348
27. Family living from the farm	391	459	268
28. TOTAL FARM RECEIPTS(25)+(26)+(27)	\$ 41772	83893	21481

Table 2A provides a listing of the sources of cash income. The landlord's share of crops and other items is included in order to calculate earnings for the whole farm business. In addition to cash sales, the increase in farm capital and value of farm produce used in the home are listed.

Table 2B. Whole Farm Summary of Cash Expenses, 1972

Ta	ble 2B. Whole Farm Summary of Cash Expe	nses		06 77 :	~ ·
			Average	96 Most	96 Least
			of 482	Prof.	Prof.
<u>It</u>	ems	· · · · · · · · · · · · · · · · · · ·	Farms	Farms	<u>Farms</u>
l.	PURCHASE OF LIVESTOCK				
2.	Daîry cows	\$	373	. 380	169
3.	Other dairy cattle		326	281	294
4.	Beef breeding cattle		336	415	344
5.	Beef feeder cattle		773	2040	836
6A	Hogs complete		60	96	76
6B	_		52	7	46
-60	Hogs producing weaning pigs		104	123	89
7A			34	20	86
7B			2		
8	Chickens (incl. hens and broilers)		12	34	3
9.	Turkeys		76	172	~
10.	Other productive livestock		20	100	
	Miscellaneous livestock expense		699	1229	353
	Feed bought		2721	4807	779
	•		1838	3923	1207
13.	Fertilizer		283	700	186
	Chemicals		2033	5123	1539
	Other crop expense		866	1273	554
	Custom work hired		148	276	62
	Repair & upkeep of livestock equipment		502	689	429
	Repair & upkeep of farm real estate		1460	2311	1093
	Gas, oil, grease bought (farm share)	16		3070	1386
	Repair & oper. of mach, tract., truck, aut	.U(I.	1125	2455	589
	Wages of hired labor		857	1485	669
	Personal property & real estate taxes		507	809	399
	General farm expense		122	145	112
24.	Telephone expense (farm share)			468	261
	Electricity expense (farm share)	65	341		12561
26.	TOTAL CASH OPERATING EXPENSE	\$	17575	32431	12701
27.	Pow, crop & gen.machinery bought (f.s.)		4920	9123	3872
	Livestock equipment bought		485	970	222
	New real estate and improvement		3910	6558	3214
30.	TOTAL FARM PURCHASES (26) thru (29)	\$	26890	49082	19869
30	Tutomost on form conitol		5808	9736	4725
	Interest on farm capital		389	326	540
	Unpaid family labor	+020		425	J-10
	Labor charge for partners & other opera	LUCULA	51	96	26
	Board furnished hired labor	ф		59665	25160
36.	TOTAL FARM EXPENSE (30) thru (35)	\$	33257	73007	<i>الالا</i> م
37	Labor Earnings (whole farm)	\$	8517	24227	(-3681)
	Number of operators	×	1	_	1
، ب	TAMESOT OF OBSTRACTS				
				,	

Labor earnings represent the return for labor after all expenses (Table 2B, Line 36) are deducted from total Farm Receipts, (Table 2A, Line 28). The interest on Farm Capital is 6% of the average total Farm Capital, Table 1, Line 26.

#### WHAT IS THE VALUE PRODUCED BY EACH ENTERPRISE?

Table 3. Summary of Farm Earnings (Enterprise Statement)1972 96 Most 96 Least Average of 482 Prof. Prof. Farms Farms Farms Items 1. RETURNS AND NET INCREASES 2. Productive Livestock 8238 11721 Dairy cattle 2993 3205 4. Other dairy cattle 4073 1112 2536 5. Beef breeding cattle 4828 1706 Feeder cattle 1292 3256 481 6. Complete hog enterprise 1081 1808 940 7. Hog finishing enterprise 123 22 88 8. 1037 629 9. Producing weaning pigs 2347 10. Farm flock of sheep 449 1574 1.60 11. Feeder lambs 21 12. Chickens (incl. hens and broilers) 118 460 477 1458 13. Turkeys Other productive livestock 100 504 14. 18663 15. ALL PRODUCTIVE LIVESTOCK 32051 8130 16. Value of feed fed to livestock 7749 12443 4600 10914 3530 17. Return over feed from livestock 19608 14379 31376 7029 18. Crop, seed and feed 19. Income from labor off the farm 132 196 75 20. Cooperative patronage refunds 347 709 176 21. Miscellaneous farm income 1378 1051 2634 TOTAL RETURNS AND NET INCREASES 27150 54523 11861 22. 23. EXPENSES AND NET DECREASES 24. Truck and auto (farm share) 1850 2755 1411 25. Tractors and crop machinery 4836 7895 3992 26. Electricity 341 468 261 27. Livestock equipment 398 756 177 28. Buildings, fences and tiling 1293 1665 1383 124 (-149) 824 29. Bare land 699 353 1229 30. Misc. livestock expense 1681 1234 31. Labor 3075 32. Labor charge for other operator(s) 120 425 669 33. Property tax 857 1485 511 34. General farm expense and telephone 629 953 5808 4725 9736 35. Interest on farm capital TOTAL EXPENSES AND NET DECREASES 18636 30293 15540 36.

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 net increases and net decreases. The resulting labor earnings are the same as those on Page 7.

37. Labor earnings

38. Number of farm operators

8514

· 24230

(-3679)

### RANGE IN EARNINGS

Every study of farm earnings shows a wide variation in earnings among farmers in a given year (Fig.1). The average labor earnings of those farmers ranking in the upper 20 per cent was \$24,227 and of those in the lower 20 per cent was \$-3,681. This is a range of \$27,908. Some of the causes for these differences, such as weather, may be beyond the control of the individual farmer. Other factors are within his control. The more important management factors affecting earnings are as follows: (1) crop yield, (2) returns from livestock, (3) amount of livestock, (4) size of business, (5) work units per worker, (6) control over expenses. These factors vary from year to year in their relative influence on earnings.

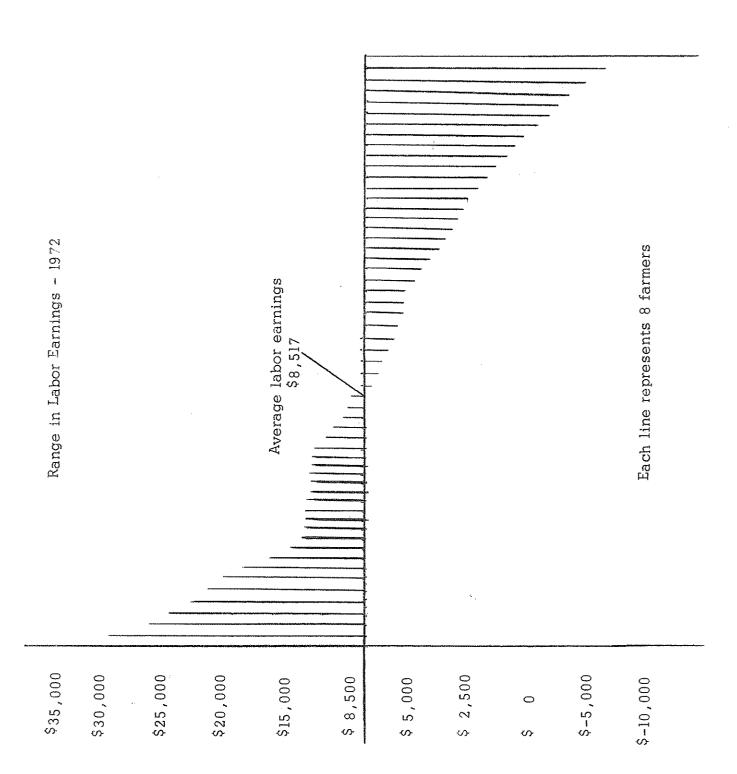


Table 4. Household and Personal Expenses, 1972

Ta	ble 4. Household and Personal Expenses, 1972			
,		Average of 293	51 Mcst Prof.	51 Least Prof.
Ιt	ems	Farms	Farms	Farms
	Number of person - family Number of adult equivalent - family	5 3.7	5 3.8	5 3.6
4. 5. 6. 7. 8. 9. 10. 11, 12.	Church and welfare  Medical care and health insurance Food and meals bought Operating expense and supplies Furnishings and equipment Clothing and clothing materials Personal care, personal spending Education Recreation Gifts and special events Pers. share truck and auto expense Oper. share upkeep on dwelling Pers. share telephone & elect. expense	186 692 1339 450 415 472 357 250 73 178 248 155 175	313 793 1477 603 681 627 565 317 100 206 250 167 166	121 516 1387 495 334 465 323 277 66 173 275 279 167
16.	TOTAL CASH LIVING EXPENSES \$	4990	6265	4878
18. 19.	Pers. share new truck and auto New dwelling bought Taxes and other deductions Life insurance & other savings & investments	146 380 589 534	144 1343 993 554	92 46 615 842
21. 22. 23.	TOTAL HOUSEHOLD AND PERSONAL (16)-(20) \$ TOTAL FAMILY LIVING FROM THE FARM (33) TOTAL CASH & NON-CASH EXPENSES (21)+(22)\$	6639 415 7054	9299 550 9849	647 <i>3</i> 286 6759
24.	FAMILY LIVING FROM THE FARM			
27. 28. 29. 30. 31. 32.	Milk and cream Beef Pork Lamb Poultry Eggs Veg., fruit, spuds and fuel-also other produc TOTAL FAMILY LIVING FROM THE FARM	114 244 25 1 2 1 e 29 \$ 416	122 402 18 1 6 549	80 143 32 6 2 22 285
33.	TOTAL PARTIT DIATES PROFITE LANG	φ 4±0	ノサブ	رںے

Household and personal accounts are important if the family is to manage its financial affairs wisely. The household and personal expenses and receipts are presented in Table 4. These farmers spent an average of \$550.00 per month for family living in addition to the food, fuel, and housing furnished by the farm.

Table 5. Net Worth Statement, 1972

<u>a</u>	ble J. Mee wordt begreenens, 17/2	Average	for 482 Farms
<b>T</b> +	ems	Jan. 1	
T 0	ZIII.O	O COLUMNIA	
7	Total productive livestock \$	13569	15963
	Crop, seed and feed	7863	9294
	Total power, machinery & equipment	13396	15484
	Land	29401	31116
	Buildings, fences, etc.	8980	10172
	Total Farm Capital	73209	82029
٠.	10 par raim oabrear	1,720,7	O. O. C.
7.	Non-farm assets	8401	9193
	Dwelling	6775	7416
9.	TOTAL ASSETS \$		98638
	7.07.777 7.0007.0		,
10.	Real estate mortgages	15339	16494
	Chattel mortgages	12729	1.363
	Notes	3471	416
	Accounts payable	998	918
14.	TOTAL LIABILITIES \$		35208
	7. V 3. V 4. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	J351	
15.	Farmers Net Worth	55848	63430
_			
16.	GAIN OR (LOSS) IN NET WORTH		\$ 7582
17.	SUPPLEMENTARY MANAGEMENT INFORMATION		
10	Onerators labor earnings	7007	
	- open of the second of the se	,>	
	Return to capital and family labor Non-farm income	10895	
		16	
21.			
	Other personal income & income tax refund	2914	
23.	TOTAL NON-FARM INCOME	2930	
24	Total money borrowed	16499	
	Total paid on debt (principal)	13850	
		5344	
	Total household & personal cash expense		
	Ratio total farm exp. to total farm receipts		0.00
	Ratio total assets to total liabilities	2.716	2.80
	Ratio non-real est. assets - non real est.li		2.6
-	Ratio real est. assets to real est. liab.	2.94	2.9
_	Ratio net worth to total liabilities	1.72	1.8
32.	*Ratio cash operating exp. to adj. total far	m sales	.6

<sup>\*</sup>Adjusted total farm sales does not include sale of capital assets

A net worth statement includes a listing of all the assets and liabilities as of a given date. The difference between the farmer's total assets and his total liabilities is his net worth. Both the farm and personal assets and liabilities are included.

The difference between the operator's net worth at the beginning and at the end of the year equals the gain in net worth. It represents the financial progress that has been made during the year.

Table 5A. Net Worth Statement, 1972

	<del></del>	96 High	Farms	96 Low	Farms
Items		<u>Jan. 1</u>	<u>Dec. 31</u>		<u>Dec. 31</u>
1. Total productive livestock 2. Crop. seed and feed 3. Total power, machinery & equipment 4. Land 5. Buildings, fences, etc.	\$	21747 14744 22127 45146 13655	26492 19817 26689 48096 16479		
6. Total Farm Capital		117419	137573	55621	58122
7. Non-farm assets 8. Dwelling 9. TOTAL ASSETS	\$	11398 7328 136145	12594 8704 158871	9452 6819 71892	9965 7348 75435
<ul> <li>10. Real estate mortgages</li> <li>11. Chattel mortgages</li> <li>12. Notes</li> <li>13. Accounts payable</li> <li>14. TOTAL LIABILITIES</li> </ul>	<del>€</del>	22241 21885 5314 1084 50524	24318 23753 5664 1024 54759	14711 10745 3704 1356 30516	
15. Farmers Net Worth	\$	85621	104112	41376	43426
16. GAIN OR (LOSS;) IN NET WORTH	\$		18491		2050
17. SUPPLEMENTARY MANAGEMENT INFORMATION					
18. Operators labor earnings (6B/39) 19. Return to capital & family labor(6B/40) 20. Non-farm Income	\$	21650 26467		(-3245) (-1161)	
21. Outside investment income 22. Other personal income & income tax re 23. TOTAL MON-FARM INCOME	£.	15 1275 1290		7302 7302	
24. Total morney borrowed 25. Total parid on debt(principal) 26. Total household & pers. cash exp.(4/23) 27. Ratio total farm exp. to total farm rec 28. Ratio total assets to total liab. 29. Ratio non-real est. assets to non-real		28815 24698 7239 .720 2.695	2.901	13249 11674 5320 1.144 2.356	2.357
estate liabilities  30. Rati; real est. assets to non-real 31. Rati, real est. assets to real est. lia 31. Ratio net worth to total liabilities 32. *Ratio cash oper. exp. to adj. total fa		1.69	2.81 3.01 1.90 .61	2.04 2.69 1.36	1,94 2,86 1,36 .85

<sup>\*</sup>Adjust.ed total farm sales does not include sale of capital assets

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

Table 6A. Operator's Share of Cash Receipts, 1972

	ble 6A. Operator's Share of Cash Receipts,	Average of 482 Farms	96 Most Prof. Farms	96 Least Prof. Farms
1.	SALE OF LIVESTOCK AND LIVESTOCK PRODUCTS			
2.	Dairy cows	1173	1549	832
3.	Dairy products	7754	11412	3021
4.	Other dairy cattle	1345	1566	562
5.	Beef breeding cattle	1512	2512	1284
6.	Beef feeder cattle	2349	5464	1450
7A	Hogs complete	983	1475	618
7B	Hogs finishing	209	42	159
7C	Hogs producing weaning pigs	929	1535	742
A8	Sheep and wool, farm flock	350 ∖ .	912	121
8B	Sheep and wool, feeder lambs	26 \	3	
9	Chickens (incl. hens and broilers)	29 \	90	17
10.	Turkeys	521	1511	
11.	Eggs	138	548	1
12.	Other productive livestock	79	396	
12A	TOTAL SALES OF PRODUCTIVE LIVESTOCK	\$ 17397	29015	8807
13.	SALE OF CROPS		and the second	
14.	Corn	497	553	489
15.	Soybeans, flax, sunflowers	1172	∖ 1991	1164
16.	Wheat, oats, barley, rye	7515	16334	4459
17.	Potatoes, sugar beets, & other crops	374	√1517	19
18.	Hay, silage and other crops	423	1117	258
19.	Set aside acres	1150	2169	827
19A	TOTAL SALES FROM CROPS	\$ 11131	23681	7216
20.	Capital assets sold	371	298	261
21.	Gas tax refund	143	230	99
22.	Income from work off the farm	319	566 ∜்	174
	Patronage refunds	346	694 \	178
24.	Miscellaneous farm income	1341	2259 \	909
25.	TOTAL FARM SALES	\$ 31048	56743	17644
26.	Increase in farm capital	8819	20153	2501
27.	Family living from the farm	390	487	274
28.	TOTAL FARM RECEIPTS (25)+(26)+(27)	\$ 40257	77383	20419
29.	Adjusted total farm sales (25)-(20)	30677	56445	17383
30.	Total cash farm operating expense	20111	34488	\ 14836
31.	Net cash operating income	\$ 10566	21957	√ 2547

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

	0	verage f 482	96 Most Prof.	96 Least Prof.
	<del></del>	Farms	Farms	Farms
1. Purchase of Livestock				
2. Dairy cows		355	347	211
3. Other dairy cattle		324	275	377
4. Beef breeding cattle		327	514	358
5. Beef feeder cattle		765	1532	814
		59	96	41
6A Hogs complete		52	70 7	46
6B Hogs finishing		97	65	95
6C Hogs producing weaning pigs			20	
7A Sheep, farm flock		34	20	48
7B Sheep, feeder lambs		2	~ ·	***
8. Chickens		12	34	3
9. Turkeys		76	172	
10. Other productive livestock		50	100	
11. Miscellaneous livestock expense		632	1208	340
12. Feed bought		2635	4354	1611
13. Fertilizer		1784	3394	1212
14. Chemicals		276	620	179
15. Other crop expense		2000	4308	1338
16. Custom work hired		854	1263	561
17. Repair & upkeep of livestock equipment		145	262	63
18. Repair & upkeep of farm real estate		495	701	414
19. Gas, oil, grease bought (farm share)		1435	2245	1077
20. Repair & oper. of mach, tractor, truck, auto(f	.s.)	1862	2861	1386
21. Wages of hired labor	•0•/	1117	2469	547
22. Personal property & real estate taxes		706	1231	535
		1070	1988	987
23. Cash rent		499	762	373
24. General farm expense		120	143	112
25. Telephone expense (farm share)				247
26. Electricity expense (farm share)		332	462	
27. Interest expense	*	1974	3054	1861
28. TOTAL CASH OPERATING EXPENSE	\$	20109	34487	14836
29. Power, crop & general mach. bought (farm sh	are)	4862	8735	3860
30. Livestock equipment bought	,	484	968	246
31. New real estate & improvements		3853	6608	2613
32. TOTAL FARM PURCHASES (28) thru (31)	\$	29308	50798	21555
7.6 Tulius ab an farm assistan		2602	4EO6	1552
34. Interest on farm capital		2683	4596	
35. Unpaid family labor		389 E1	221	533
37. Board furnished hired labor	ds	51	116	24
38. TOTAL FARM EXPENSE (32) thru (37)	\$	32431	55731	23664
39. Labor earnings (operators share)	\$	7823	21650	(-3245)
40.*Return to capital and family labor	\$	10895	26467	(-1160
40. TIG OUTH OO CAPTOAT AND TAMETY TANOT	dh.	10000	20701	( 1100

<sup>\*</sup>Return to capital and family labor represents the amount available for debt service, living expense, and savings, and uses actual interest paid rather than interest on average farm capital.

### 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 17.

- 1. <u>Labor Earnings</u> A measure of the relative financial return for 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. Gross Return Per Acre An additional measure of crop selection based on total production times an average price for the crops.
- 4. 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.
- 5. <u>Livestock Units Per 100 Acres</u> A measure of livestock density or population. Unit values are assigned to the various classes of livestock.
- 5. Size of Business Work Units 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. Explanation on page 36.
- 7. Work Units Per Worker Measures labor efficiency. It is the total work units divided by the number of workers including the operator, hired labor, and family labor.
- 8. Power, Machinery, Equipment and Building Expense Per Work Unit A measure of expense control. It is the total cost of items listed in Table 3 divided by the number of work units.

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 charts 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 as above average earnings, this may not be true when individual farms are considered. The inter-relationship of factors varies from farm to farm.

Ta	ble 8. Measures of Farm Organization, 1972.			
erenteene		Average	96 Most	96 Least
		of 482	Prof.	Prof.
		Farms	Farms	<u> Farms</u>
7	Labor earnings \$	8517	24227	(-3681)
	Crop yields - index	99	106	110
	Percent till. land in H.R. crops	77	100	710
	Gross return per till. acre (excl. pasture)	40.33	47.46	36.30
	Return for \$100 to prod. livestock-index	99	106	78
-	Livestock units per 100 acres*	15.3	16.4	12.1
	Size of business - work units	<b>351.</b> 2	600.3	200.5
		243.1	330.2	148.2
	Work units per worker	28.49	23.67	43.68
	Power mach., equip., bldg. exp. per work unit			61155
10.	Farm capital investment per worker	69772	93977	01100
11	INDEX OF RETURN FOR \$100 FEED FROM			
12.	Complete hog enterprise	100	114	81
13.	Hog finishing enterprise	100	125	77
14.	Producing weaning pigs	100	106	81
15.	Dairy cattle	100	111	75
16.	Other dairy	100	114	82
17.	All dairy and dual purpose cattle	100	111	77
18.	Beef breeding cattle	100	110	67
19.	Beef feeder cattle	100	98	98
20.	Sheep farm flock	100	108	101
21.	Feeder lambs	100		
22.	Chickens-laying flock	100	105	
23.	Chickens-broilers	100	100	
24.	Turkeys-laying flock	100		
25.	Turkey-poults	100	106	
26.	Other productive livestock			
27.	Number of animal units	56.5	102.6	31.3
28	WORK UNITS			
		167.7	312.1	109.9
29. 30.	Crops Productive livestock	176.9		86.8
31.	Other productive work units	6.6	9.8	3.8
70	TANDIANGE DEED MODE INTO			
-	EXPENSES PER WORK UNIT	14 70	1.4 1.4	19.09
33.	Tractor and crop machinery expense \$	14.70	14.14	12.40
34.	Farm share of auto and truck expense	6.85	4.87	2.02
35.	Farm share of electricity expense	1.22	.80 1 13	.97
36.	Livestock equipment expense	1.06	1.13	•97 9•17
37.	Building, fencing, and tiling expense	4.64	2.71	
	Tractor & crop mach. expense per crop acre**		10.44	12-56
	Farm power & mach. cost allocated to livestoo		828.95	435.93
40.	Building, fencing & tiling cost allo. to crop	B 6/U.UU	1034.56	717.94

<sup>\*</sup>Acres include all tillable land, non-tillable hay and pasture \*\*Acres include all tillable land plus acres in wild hay

THERMOMETER CHART

		24* <del>04******************</del>		****	**************************************	Milesender die Daller einzeleg alle bestelle sich der eine		Marking November of			<del>Dallar de Caractel Co</del>	·		
					ross	Ret.	Prod			Wo		•	Pw. M	
	Labor		Crop		Ret. Per	From Prod.	Lvst Unit		Wor		its r		Eq. & Exp.	Bldg. Per
	Earnings		Yield		ill.A.		100	•	Uni		rker		Work	
WWT PERSONAL STANSON MANUAL STANSON ST	eneráls indirection de la company (de la company de la	T	14.3 2-14.00 (1884) VIII-1884 (1884)					CHICAGAMINA AND AND AND AND AND AND AND AND AND A				, ************************************	1	
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	\$35,000		4075	60		150	05	600		4.00		<b>C</b>		
	Φ22,000		175	] "		150	25	600	П	420		8		
	\$30,000		160	5	5	140	23	550	H	385	1	12	}	
	\$25,000		145	52	2	130	21	500		350	-	16		
	\$20,000		130	48	3	120	19 H	450	H	315	-	20		
	\$15,000	And the second second	115	4.4	<b> </b>	110 H	17	400	H	: 280	_	24		
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	\$ 0		55	- 28	3 H	70	9 H	200	H	140	-	40		
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:	\$-10,000		25	20	)  -	50	5	100	H	70	-	49		
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		P	Ł	5	8	Н	8		O	(	$\Box$		<b>b</b>	

Your standing with respect to the various measures of farm organization and management efficiency are indicated in the thermometer above. The averages for the 482 farmers included in this summary are located between the dotted lines across the center of this page.

### CROP ANALYSIS

The following crop analysis represent an attempt to show the comparable return to labor, management and capital per acre from each crop. The costs charged against each crop are:

- (1) the power and machinery costs, gas, oil, repairs, and depreciation
- (2) fertilizer(3) other costs: seed, chemicals, twine, seed treatment and hail insurance
- (4) land cost: the sum of 6% X land value plus tillable acre taxes
- (5) hired labor for such specialized crops as sugar beets and potatoes
- (6) miscellaneous costs such as irrigation charges
- (7) custom work hired

Table 9. Crop Production, 1972

<u>1a</u>	ble 9. Crop Production, 1972			Yield
		Unit	Acres	per Acre
1.	Oats and mixtures	Bus.	76.8	53.4
	Oats silage	Ton	.6	5.5
	Canning peas	\$	Ó	7 * 7
	Wheat	Bus.	65.9	32.2
	Barley	Bus.	44.5	47.5
	Flax	Bus.	9.2	15.9
	Rye	Bus.	10.1	27.5
8.	TOTAL SMALL GRAIN	DWD.	207.8	2107
	Canning corn	\$	207.0	
	Corn grain and seed corn	Bus.	16.0	67.6
	Soybeans - grain	Bus.	7.6	22.1
	Corn and cane silage	Ton	14.3	10.4
	Corn and cane fodder	Ton	•5	6.1
	Potatoes	Cwt.	ó	. 0.1
		Ton	1.6	13.9
10.	Sugar beets Sunflowers		16.2	
		Cwt. \$		8.7
	Other crops	₫Þ	.1	
19.	· · · · · · · · · · · · · · · · · · ·	Лот	56.6 25.0	0.77
	Alfalfa hay	Ton	25.0	2.7
	Other legume hay and mixtures	Ton	44.5	2.1
	Tame grass hay	Ton	1.2	1.0
	Annual hay as square function,	Ton	1.9	1.5
	Legume and grass silage		•7	7.0
	Legume seed acidsgians as dous asso		3.7	234.8
	Grass seed	Lbs.	4.9	168.0
27.	TOTAL HAY	•	81.9	
	Alfalfa and mixed pasture		30.4	
	Other legume pasture		~ ~	
	Other tillable pasture		5.6	
31.			36.0	
	Diverted acres income	\$	72.7	
	Summer fallow - tilled		6.3	
	Other tillable land idle		6.4	
35.	TOTAL TILLABLE LAND		467.7	
	Wild hay	\$	3.2	
37.	Non-tillable pasture		38.1	
38.	Timber	\$	17.7	
39.	Roads and waste		34.9	
40.	Farmstead		10.0	
41.	TOTAL ACRES IN FARM		571.6	
	SUPPLEMENTARY MANAGEMENT INFORMATIO	N		
43.	Percent land tillable			81.8
44.	Percent in high return crops			
	*Fertilizer cost per acre			3.97
	*Crop chemicals per acre			.60
	*Seed and other costs per acre			2.62
	*Gas, oil, grease bought per acre, crop	machinery		2.39
1-0-4	,,,,	• •		

<sup>\*</sup>Tillable land minus pasture

Table 10. Crop Data for Oats and Mixtures, 1972

		Average	199 High	199 Low
		398 Farms	Farms	Farms
		Per Acre	Per Acre	Per Acre
1.	Acres	92.0	95.5	88.4
2.	Yield per acre	53.4	65.3	40.6
	Value per unit	.66	•66	.65
	Gross return	35.24	43.10	26.39
5.	SUPPLEMENTAL COSTS			
6.	Fertilizer	4.40	4.91	3.86
7.	Chemicals	.42	.48	•37
8.	Seed and other	3.09	3.01	3.19
9.	Hired labor			
10.	Custom work	.66	.82	.51
11.	TOTAL SUPPLEMENTAL COSTS	8.57	9.22	7.93
12.	Return Over Supplemental Costs	26.67	33.88	18.46
13.	ALLOCATED COSTS			
14.	Power and crop machinery expense	9.51	8.61	11.82
15.	Land cost	7.53	7.66	7.39
16.	Miscellaneous costs			
17.	TOTAL ALLOCATED COSTS	17.04	16.27	19.21
18.	TOTAL LISTED COSTS	25.61	25.49	27.14
19.	RETURN OVER TOTAL LISTED COSTS	9.63	17.61	(-,75)
-	Per Unit Cost	.48	• 39	.67

Ta	ble 10. Crop Data for Oats Silage,	1972		
		Average	6 High	6 Low
		12 Farms	Farms	Farms
		Per Acre	Per Acre	Per Acre
1.	Acres	22.2	21.8	22.5
2.	Yield per acre	5.5	7.9	3.1
3.	Value per unit	5.83	6.17	5.50
4.	Gross return	32.07	48.74	17.05
5.	SUPPLEMENTAL COSTS			
6.	Fertilizer	2.21	1.70	2.76
7.	Chemicals	•54	. 41	.67
8.	Seed and other	2.70	2.94	2.44
9.	Hired labor			
10.	Custom work	,05	.05	
11.	TOTAL SUPPLEMENTAL COSTS	5.50	5.10	5.87
12.	Return Over Supplemental Costs	26.57	43.64	11.18
13.	ALLOCATED COSTS			
14.	Power and crop machinery expense	12.68	11.48	15.76
15.	Land cost	7.88	7.06	8.71
16.	Miscellaneous costs			
17.	TOTAL ALLOCATED COSTS	20.56	18.54	24.47
18.	TOTAL LISTED COSTS	26.06	23.64	30.34
19.	RETURN OVER TOTAL LISTED COSTS	6.01	25.10	(-13.29)
	Per Unit Cost	4.78	2,98	9.75
	Per Unit Cost	4.10	2,90	9.10

Table 10. Crop Data For Wheat, 1972

:	bre 10. Crop Data For Wheat, 1912	Average	160 High Farms	160 Low Farms
		321 Farms Per Acre	rarms Per Acre	rarms Per Acre
		Ter. Acre	TET HOTE	Ter wore
1.	Acres	98.0	118.8	77.4
2.	Yield per acre	32.2	37.7	23.9
	Value per unit	1.79	1.82	1.77
	Gross return	57.64	68.61	42.30
5.	SUPPLEMENTAL COSTS			
6.	Fertilizer	7.22	7.67	6.55
7.	Chemicals	.90	1.12	.56
	Seed and other	4.32	4.64	3.82
9.	Hired labor		•	
10.	Custom work	.63	.62	.63
11.	TOTAL SUPPLEMENTAL COSTS	13.07	14.05	11.56
	Return Over Supplemental Costs	44.57	54.56	30.74
13.	ALLOCATED COSTS			
14.	Power and crop machinery expense	9.51	8.61	11.82
15.	hand cost	9.50	10.57	7.80
16.				
17.		19.01	19.18	19.62
18.	TOTAL LISTED COSTS	32.08	33.23	31.18
	Return Over Total Listed Costs	25.56	35.38	11.12
	Per Unit Cost	1.00	.88	1.31

Table 10. Crop Data For Barley, 1972 119 Low 119 High Average Farms Farms 238 Farms Per Acre Per Acre Per Acre 87.1 102.3 72.0 1. Acres 36.3 47.5 55.3 2. Yield per acre 1.00 1.01 1.01 3. Value per unit 36.30 4. Gross return 47.98 55.85 5. SUPPLEMENTAL COSTS 6.25 5.36 6.87 6. Fertilizer .03 1.16 .60 Chemicals 7. 3.36 3.52 3.63 Seed and other 8. 9. Hired Labor .52 .60 .55 Custom work 10. TOTAL SUPPLEMENTAL COSTS 12.18 9.92 11.25 11. 26.38 43.67 12. Return Over Supplemental Costs 36.73 13. ALLOCATED COSTS 8.61 11.82 9.51 Power and crop machinery expense 14. 10.59 8.83 15. Land cost 9.86 16. Miscellaneous costs 19.20 20.65 19.37 17. TOTAL ALLOCATED COSTS 31.38 30.57 TOTAL LISTED COSTS 30.62 24.47 5.73 19. Return Over Total Listed Costs 17.36 .84 .57 Per Unit Cost .64

Table 10. Crop Data For Flax, 1972

	ore to order base for really type	Average	20 High	20 Low
		40 Farms	Farms	Farms
		Per Acre	Per Acre	Per Acre
4	A 222 2 21	55.7	55.8	55.6
	Acres			
	Yield per acre	15.9	24.8	7.0
	Value per unit	2.56	2.38	2.75
4.	Gross return	40.70	59.02	19.25
5.	SUPPLEMENTAL COSTS			
6.	Fertilizer	1.90	2.44	1.35
7.	Chemicals	.63	•79	•45
8.	Seed and other	3.54	3.58	3.51
9.	Hired labor			
10.	Custom work	• 47	.63	.31
11.	TOTAL SUPPLEMENTAL COSTS	6.54	7.44	5.62
	Return Over Supplemental Costs	34.16	51.58	13.63
13.	ALLOCATED COSTS	·		
14.	Power and crop machinery expense	9.51	8.61	11.82
15.	Land cost	9.44	11.68	7.19
16.	Miscellaneous costs	J- 1 .		,
17.	TOTAL ALLOCATED COSTS	18.95	20.29	19.01
18.	TOTAL LISTED COSTS	25.49	27.73	24.63
	Return Over Total Listed Costs	15.21	31.29	(-5.38)
コン・		1,60	1.12	3.50
	Per Unit Cost	1,00	1.14	J.JU

Ta	ble 10. Crop Data For Rye, 1972			
		Average	16 High	16 Low
		32 Farms	Farms	Farms
		Per Acre	Per Acre	Per Acre
1.	Acres	47.5	52.4	42.6
2.	Yield per acre	27.5	35.7	17.3
3.	Value per unit	.86	•90	.81
4.	Gross return	23.65	32.13	14.01
5.	SUPPLEMENTAL COSTS			
6.	Fertilizer	2.82	3.61	1,83
7.	Chemicals	.04	.06	
8.	Seed and other	2.08	2.37	1.74
9.	Hired labor			, .
10.	Custom work	.48	.86	.02
11.	TOTAL SUPPLEMENTAL COSTS	5.42	6.90	3.59
	Return Over Supplemental Costs	18.23	25.23	10.42
172	ALLOCAMED COOMS			
13.		9.51	8.61	11.82
14.	Power and crop machinery expense			6.38
15.	Land cost	8.13	9.52	0.70
16.	Miscellaneous costs	457 (*)	10 17	10 00
17.	TOTAL ALLOCATED COSTS	17.64	18.13	18.20
18.		23.06	25.03	21.79
19.	Return Over Total Listed Costs	.59	7.10	(-7.78)
	Per Unit Cost	.64	.70	1.26

Table 10. Crop Data for Corn for Grain, 1972

		Average 170 Farms	85 High Farms	85 Low Farms
		Per Acre	Per Acre	Per Acre
1.	Acres	39.0	43.3	34.7
2.	Yield per acre	67.6	80.8	51.1
3.	Value per unit	1.07	1.07	1.08
4.	Gross return	72.33	86.46	55.19
5.	SUPPLEMENTAL COSTS			
6.	Fertilizer	8.72	9.24	8.10
7.	Chemicals	2.51	2.98	1.93
8.	Seed and other	5.05	5.01	5.10
9.	Hired labor			
10.	Custom work	3.21	3.12	3.31
11.	TOTAL SUPPLEMENTAL COSTS	19.49	20.35	18.44
12.	Return Over Supplemental costs	52.84	66.11	36.75
13.	ALLOCATED COSTS			
14.	Power and crop machinery expense	17.44	15.79	21.67
15.	Land cost	11.00	12.06	9.71
	Miscellaneous costs			
17.	TOTAL ALLOCATED COSTS	28.44	27.85	31.38
18.	TOTAL LISTED COSTS	47.93	48.20	49.82
	Return Over Total Listed Costs	24.40	38.26	5.37
	Per Unit Cost	.71	.60	.97

Ta	Table 10. Crop Data for Soybeans-Grain, 1972					
		Average	19 High	19 Low		
		38 Farms	Farms	Farms		
		Per Acre	Per Acre	Per Acre		
		and the second s				
	Acres	89.3	116.1	62.4		
2.	Yield per acre	22.1	25.2	16.5		
3.	Value per unit	3.35 ·	3.46	3.24		
4.	Gross return	74.04	87.19	53.46		
5.	SUPPLEMENTAL COSTS					
6.	Fertilizer	.12	.07	.21		
7.	Chemicals	2.08	2.30	1.68		
8.	Seed and other	5.21	5.23	5.19		
9.	Hired labor	استهر	<i></i>			
_		. 34	.30	<b>,</b> 38		
10.	Custom work		7.90	7.46		
11.	TOTAL SUPPLEMENTAL COSTS	7.75		46.00		
12.	Return Over Supplemental Costs	66.29	79.29	40.00		
13.	ALLOCATED COSTS					
14.	Power and crop machinery expense	14.27	12.92	17.73		
15.	Land cost	17.07	19.66	12.24		
16.	Miscellaneous costs					
17.	TOTAL ALLOCATED COSTS	31.34	32.58	29.97		
18.	TOTAL LISTED COSTS	39.09	40.48	37.43		
	Return Over Total Listed Costs	34.95	46.71	16.03		
٠,٠٠	Per Unit Cost	1.77	1.61	2.26		

Table 10. Crop Data for Sugar Beets, 1972

ľa	ble 10. Crop Data for Sugar Beets,	1972	
		Average	
		5 Farms	
		Per Acre	
1.	Acres	152.8	
2.	Yield per acre	13.9	
	Value per unit	16.99	
	Gross return	236.16	
5.	SUPPLEMENTAL COSTS		
6.	Fertilizer	12.37	
7.	Chemicals	5.43	
8.	Seed and other	1.68	
9.	Hired labor	22.35	
10.	Custom work	3,63	
11.	TOTAL SUPPLEMENTAL COSTS	45.46	
12.	Return Over Supplemental Costs	190.70	
13.	ALLOCATED COSTS		
14.	Power and crop machinery expense	63.40	
15.	Land cost	18.52	
16.	Miscellaneous costs		
17.	TOTAL ALLOCATED COSTS	81.92	
18.	TOTAL LISTED COSTS	127.38	
19.	Return Over Total Listed Costs	108.78	
	Per Unit Cost	9.16	

Table 10. Crop Data for Legume and Grass Silage, 1972					
		Average	4 High	4 Low	
		9 Farms	Farms	$F_c$ rms	
		Per Acre	Per Acre	Per Acre	
1.	Acres	35.4	24.8	45.0	
2.	Yield per acre	7.0	10.0	5.2	
3.	Value per unit	8.11	5.75	10.25	
4.	Gross return	56.77	57.50	53.30	
5.	SUPPLEMENTAL COSTS				
6.		1.61	5.16		
7.	Chemicals	, , , ,	2		
8.	Seed and other	•93	.48	.67	
9.	Hired labor		,		
10.	Custom work	.65	2.06		
11.	TOTAL SUPPLEMENTAL COSTS	3.19	7.70	.67	
12.	Return Over Supplemental Costs	53.58	49.80	52.63	
ሳ ሜ	ALLOCATED COSTS				
13.		12.68	11.48	15.76	
14.	Power and crop machinery expense	9.69	9.52	9.96	
15. 16.	Land cost Miscellaneous costs	9.09	9.72	9.30	
	TOTAL ALLOCATED COSTS	22.37	21.00	25.72	
17. 18.	TOTAL LISTED COSTS	25.56	28.70	26.39	
	Return Over Total Listed Costs	31.21	28.80	26.91	
17.	Per Unit Cost	3.66	2.86	5.12	
	TET OHT COST	J. 00	2.00	J + 1 cm	

		Average 245 Farms Per Acre	122 High Farms Per Acre	122 Lo Farm Per Ac
		201 11040	· · · · · · · · · · · · · · · · · · ·	
. A	cres	28.0	28.8	27.2
	ield per acre	10.4	13.0	7.8
. V	alue per unit	5.86	5.92	5.81
• G	ross return	60.94	76.96	45.32
. S	UPPLEMENTAL COSTS			
	Fertilizer	6.68	7.01	6.32
•	Chemicals	1.57	1.53	1.65
•	Seed and other	3.93	4.17	3.68
٠	Hired labor			
٠	Custom work	2.18	2.33	2.02
۰	TOTAL SUPPLEMENTAL COSTS	14.36	15.04	13.67
. R	eturn Over Supplemental Costs	46.58	61.92	31.65
. A	LLOCATED COSTS			
•	Power and crop machinery expense	25.36	22.96	31.52
	Land cost	8.57	9.17	7.94
	Miscellaneous costs		\$ \$\sigma_{i}^{\tau} = \sigma_{i}^{\tau}	
	TOTAL ALLOCATED COSTS	33.93	32.13	39.46
e	TOTAL LISTED COSTS	48.29	47.17	53.13
		12.65	29.79	- (-7.81
. R	eluri over lotal bisted costs			
	Per Unit Cost	4.63 972 Average	3.63 32 High	6.82 32 Lo
	Per Unit Cost e 10. Crop Data for Sunflowers, 1	4.63 972	3.63	6.82
abl	Per Unit Cost e 10. Crop Data for Sunflowers, 1	4.63 972 Average 65 Farms Per Acre	3.63 32 High Farms Per Acre	6.82 32 Lo Farm Per Ac
abl	Per Unit Cost e 10. Crop Data for Sunflowers, 1	4.63  972  Average 65 Farms Per Acre	3.63  32 High Farms Per Acre	6.82 32 Lo Farr Per Ac
abl	Per Unit Cost  e 10. Crop Data for Sunflowers, 1  cres ield per acre	4.63  972 Average 65 Farms Per Acre  116.5 8.7	3.63  32 High Farms Per Acre  99.2 11.1	6.82 32 Lo Farn Per Ac 137.6 7.0
abl . A . Y	Per Unit Cost  e 10. Crop Data for Sunflowers, 1  cres ield per acre alue per unit	4.63  972 Average 65 Farms Per Acre  116.5 8.7 4.76	3.63  32 High Farms Per Acre  99.2 11.1 4.66	32 Lo Farr Per Ad 137.6 7.0 4.8
abl . A . Y	Per Unit Cost  e 10. Crop Data for Sunflowers, 1  cres ield per acre	4.63  972 Average 65 Farms Per Acre  116.5 8.7	3.63  32 High Farms Per Acre  99.2 11.1	32 Lo Farm Per Ac 137.6 7.0 4.8
. A . Y . G . S	Per Unit Cost e 10. Crop Data for Sunflowers, 1 cres ield per acre alue per unit ross return UPPLEMENTAL COSTS	4.63  972  Average 65 Farms Per Acre  116.5 8.7 4.76 41.41	3.63  32 High Farms Per Acre  99.2 11.1 4.66 51.73	32 Lo Farm Per Ao 137.6 7.0 4.8° 34.09
. A . Y . G	Per Unit Cost  e 10. Crop Data for Sunflowers, 1  cres ield per acre alue per unit ross return  UPPLEMENTAL COSTS Fertilizer	4.63  972  Average 65 Farms Per Acre  116.5 8.7 4.76 41.41	3.63  32 High Farms Per Acre  99.2 11.1 4.66 51.73	32 Lo Farm Per Ao 137.6 7.0 4.8° 34.09
. A . Y . G . S .	Per Unit Cost  e 10. Crop Data for Sunflowers, 1  cres ield per acre alue per unit ross return  UPPLEMENTAL COSTS Fertilizer Chemicals	4.63  372  Average 65 Farms Per Acre  116.5 8.7 4.76 41.41  3.96 1.19	3.63  32 High Farms Per Acre  99.2 11.1 4.66 51.73	32 Lo Farm Per Ac 137.6 7.0 4.8 34.09
. A . Y . G . S	Per Unit Cost  e 10. Crop Data for Sunflowers, 1  cres ield per acre alue per unit ross return  UPPLEMENTAL COSTS Fertilizer Chemicals	4.63  972  Average 65 Farms Per Acre  116.5 8.7 4.76 41.41	3.63  32 High Farms Per Acre  99.2 11.1 4.66 51.73	32 Lo Farm Per Ac 137.6 7.0 4.8 34.09
. A Y . Y . G . S	Per Unit Cost  e 10. Crop Data for Sunflowers, 1  cres ield per acre alue per unit ross return  UPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor	4.63  972  Average 65 Farms Per Acre  116.5  8.7  4.76  41.41  3.96  1.19  2.32	3.63  32 High Farms Per Acre  99.2 11.1 4.66 51.73	32 Lo Farm Per Ac 137.6 7.0 4.87 34.09
. A . Y . G . S	Per Unit Cost  e 10. Crop Data for Sunflowers, 1  cres ield per acre alue per unit ross return  UPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor Custom work	4.63  972  Average 65 Farms Per Acre  116.5 8.7 4.76 41.41  3.96 1.19 2.32 1.68	3.63  32 High Farms Per Acre  99.2 11.1 4.66 51.73  3.56 1.15 2.44  1.42	32 Lo Farm Per Ao 137.6 7.0 4.8 34.09 4.36 1.26 2.15
. A Y . V . G . S	Per Unit Cost  e 10. Crop Data for Sunflowers, 1  cres ield per acre alue per unit ross return  UPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor Custom work TOTAL SUPPLEMENTAL COSTS	4.63  972  Average 65 Farms Per Acre  116.5 8.7 4.76 41.41  3.96 1.19 2.32  1.68 9.15	3.63  32 High Farms Per Acre  99.2 11.1 4.66 51.73  3.56 1.15 2.44  1.42 8.57	32 Lo Farm Per Ac 137.6 7.0 4.87 34.09 4.36 1.26 2.15
. A Y . V . G . S	Per Unit Cost  e 10. Crop Data for Sunflowers, 1  cres ield per acre alue per unit ross return  UPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor Custom work TOTAL SUPPLEMENTAL COSTS eturn Over Supplemental Costs	4.63  Average 65 Farms Per Acre  116.5 8.7 4.76 41.41  3.96 1.19 2.32  1.68 9.15 32.26	3.63  32 High Farms Per Acre  99.2 11.1 4.66 51.73  3.56 1.15 2.44  1.42 8.57	32 Lo Farm Per Ac 137.6 7.0 4.85 34.09 4.36 2.15
. A Y . V . G . S	Per Unit Cost  e 10. Crop Data for Sunflowers, 1  cres ield per acre alue per unit ross return  UPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor Custom work TOTAL SUPPLEMENTAL COSTS eturn Over Supplemental Costs	4.63  972  Average 65 Farms Per Acre  116.5  8.7  4.76  41.41  3.96  1.19  2.32  1.68  9.15  32.26	3.63  32 High Farms Per Acre  99.2 11.1 4.66 51.73  3.56 1.15 2.44  1.42 8.57 43.16	32 Lo Farm Per Ac 137.6 7.0 4.85 34.09 4.36 1.26 2.15 1.68 9.45 24.64
. A . Y . G . S	Per Unit Cost  e 10. Crop Data for Sunflowers, 1  cres ield per acre alue per unit ross return  UPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor Custom work TOTAL SUPPLEMENTAL COSTS eturn Over Supplemental Costs  LLOCATED COSTS Power and crop machinery expense	4.63  972  Average 65 Farms Per Acre  116.5 8.7 4.76 41.41  3.96 1.19 2.32  1.68 9.15 32.26	3.63  32 High Farms Per Acre  99.2 11.1 4.66 51.73  3.56 1.15 2.44  1.42 8.57 43.16	32 Lo Farm Per Ac 137.6 7.0 4.85 34.09 4.36 2.15 1.68 9.45 24.64
abl . A . Y . G . S	Per Unit Cost  e 10. Crop Data for Sunflowers, 1  cres ield per acre alue per unit ross return  UPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor Custom work TOTAL SUPPLEMENTAL COSTS eturn Over Supplemental Costs  LLOCATED COSTS Power and crop machinery expense Land cost	4.63  972  Average 65 Farms Per Acre  116.5 8.7 4.76 41.41  3.96 1.19 2.32  1.68 9.15 32.26	3.63  32 High Farms Per Acre  99.2 11.1 4.66 51.73  3.56 1.15 2.44  1.42 8.57 43.16	32 Lo Farm Per Ac 137.6 7.0 4.85 34.09 4.36 2.15 1.68 9.45 24.64
abl . A . Y . G . S .	Per Unit Cost  e 10. Crop Data for Sunflowers, 1  cres ield per acre alue per unit ross return  UPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor Custom work TOTAL SUPPLEMENTAL COSTS eturn Over Supplemental Costs  LLOCATED COSTS Power and crop machinery expense Land cost	4.63  Average 65 Farms Per Acre  116.5 8.7 4.76 41.41  3.96 1.19 2.32  1.68 9.15 32.26	3.63  32 High Farms Per Acre  99.2 11.1 4.66 51.73  3.56 1.15 2.44  1.42 8.57 43.16	32 Lo Farm Per Ac 137.6 7.0 4.85 34.09 4.36 1.26 2.15 1.68 9.45 24.64
abl . A . Y . G . S	Per Unit Cost  e 10. Crop Data for Sunflowers, 1  cres ield per acre alue per unit ross return  UPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor Custom work TOTAL SUPPLEMENTAL COSTS eturn Over Supplemental Costs  LLOCATED COSTS Power and crop machinery expense Land cost	4.63  Average 65 Farms Per Acre  116.5 8.7 4.76 41.41  3.96 1.19 2.32  1.68 9.15 32.26	3.63  32 High Farms Per Acre  99.2 11.1 4.66 51.73  3.56 1.15 2.44  1.42 8.57 43.16	32 Lo Farm Per Ac 137.6 7.0 4.85 34.09 4.36 1.26 2.15 1.68 9.45 24.64
abl . A . Y . G . S .	Per Unit Cost  e 10. Crop Data for Sunflowers, 1  cres ield per acre alue per unit ross return  UPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor Custom work TOTAL SUPPLEMENTAL COSTS eturn Over Supplemental Costs  LLOCATED COSTS Power and crop machinery expense Land cost	4.63  Average 65 Farms Per Acre  116.5 8.7 4.76 41.41  3.96 1.19 2.32  1.68 9.15 32.26	3.63  32 High Farms Per Acre  99.2 11.1 4.66 51.73  3.56 1.15 2.44  1.42 8.57 43.16	32 Lo Farm Per Ac 137.6 7.0 4.85 34.09 4.36 1.26 2.15 1.68 9.45 24.64
abl . A . Y . G . S	Per Unit Cost  e 10. Crop Data for Sunflowers, 1  cres ield per acre alue per unit ross return  UPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor Custom work TOTAL SUPPLEMENTAL COSTS eturn Over Supplemental Costs  LLOCATED COSTS Power and crop machinery expense Land cost	4.63  Average 65 Farms Per Acre  116.5 8.7 4.76 41.41  3.96 1.19 2.32  1.68 9.15 32.26	3.63  32 High Farms Per Acre  99.2 11.1 4.66 51.73  3.56 1.15 2.44  1.42 8.57 43.16	32 Lo Farm Per Ac 137.6 7.0 4.85 34.09 4.36 1.26 2.15 1.68 9.45 24.64

T.C.	ble 10. Crop Data for Alfalfa Hay,			
		Average	103 High	103 Low
		206 Farms	Farms	Farms
		Per Acre	Per Acre	Per Acro
1.	Acres	58.1	50.9	65.4
2.	Yield per acre	2.7	3.4	2.1
3.	Value per unit	16.40	16.57	16.23
	Gross return	44.28	56.34	34.08
۳	SUPPLEMENTAL COSTS			
		2.00	7 70	0 74
6.	Fertilizer	2.98	3.79	2.34
7.	Chemicals	.02	.06	
8.	Seed and other	2.38	2.59	2.20
9.	Hired labor			
10.	Custom work	.46	.41	•50
11.	TOTAL SUPPLEMENTAL COSTS	5.84	6.85	5.04
	Return Over Supplemental Costs	38.44	49.49	29.04
† £ *	ne tarii over bapprometrar oob as	JO+44	47.47	29.04
	ALLOCATED COSTS		1	
14.	Power and crop machinery expense	19.02	17.22	23.64
15.	Land cost	8.57	9.17	8.09
16.	Miscellaneous costs			
17.	TOTAL ALLOCATED COSTS	27.59	26.39	31.73
18.	TOTAL LISTED COSTS	33.43	33.24	36.77
	Return Over Total Listed Costs	10.85	23.10	(-2.69)
19.	Per Unit Cost	12.53	9.72	17.81
m _	All 40 Guan Data San Othan Iamma			
<u>Ta</u>	ble 10. Crop Data for Other Legume		res, 1972	126 Low
Ta	ble 10. Crop Data for Other Legume	Hay and Mixtu		126 Low Farms
Ta	ble 10. Crop Data for Other Legume	Hay and Mixtu Average	res, 1972 126 High	Farms
		Hay and Mixtu Average 253 Farms Per Acre	res, 1972 126 High Farms Per Acre	Farms Per Acre
1.	Acres	Hay and Mixtu Average 253 Farms Per Acre 84.6	res, 1972 126 High Farms Per Acre	Farms Per Acre 105.3
1.		Hay and Mixtu Average 253 Farms Per Acre	res, 1972 126 High Farms Per Acre	Farms Per Acr
1.	Acres	Hay and Mixtu Average 253 Farms Per Acre 84.6	res, 1972 126 High Farms Per Acre	Farms Per Acr
1. 2. 3.	Acres Yield per acre	Hay and Mixtu Average 253 Farms Per Acre 84.6 2.1	res, 1972 126 High Farms Per Acre 64.2 2.9	Farms Per Acre 105.3 1.5
1. 2. 3. 4.	Acres Yield per acre Value per unit Gross return	Hay and Mixtu Average 253 Farms Per Acre 84.6 2.1 15.39	res, 1972 126 High Farms Per Acre 64.2 2.9 15.97	Farms Per Acre  105.3 1.5 14.79
1. 2. 3. 4.	Acres Yield per acre Value per unit Gross return SUPPLEMENTAL COSTS	Hay and Mixtu Average 253 Farms Per Acre 84.6 2.1 15.39 32.32	res, 1972 126 High Farms Per Acre 64.2 2.9 15.97 46.31	Farms Per Acre  105.3 1.5 14.79 22.19
1. 2. 3. 4.	Acres Yield per acre Value per unit Gross return SUPPLEMENTAL COSTS Fertilizer	Hay and Mixtu Average 253 Farms Per Acre 84.6 2.1 15.39 32.32	res, 1972 126 High Farms Per Acre 64.2 2.9 15.97 46.31	Farms Per Acre  105.3 1.5 14.79
1. 2. 3. 4. 5. 6.	Acres Yield per acre Value per unit Gross return  SUPPLEMENTAL COSTS Fertilizer Chemicals	Hay and Mixtu Average 253 Farms Per Acre 84.6 2.1 15.39 32.32	res, 1972 126 High Farms Per Acre 64.2 2.9 15.97 46.31	Farms Per Acre  105.3 1.5 14.79 22.19
1. 2. 3. 4. 5. 6. 7. 8.	Acres Yield per acre Value per unit Gross return  SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and other	Hay and Mixtu Average 253 Farms Per Acre 84.6 2.1 15.39 32.32	res, 1972 126 High Farms Per Acre 64.2 2.9 15.97 46.31	Farms Per Acre  105.3 1.5 14.79 22.19
1. 2. 3. 4. 5. 6. 7. 8.	Acres Yield per acre Value per unit Gross return  SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor	Hay and Mixtu Average 253 Farms Per Acre  84.6 2.1 15.39 32.32  1.99 .01 1.69	res, 1972 126 High Farms Per Acre 64.2 2.9 15.97 46.31 3.30 .02 2.41	Farms Per Acre  105.3     1.5 14.79 22.19  1.19
1. 2. 3. 4. 5. 6. 7. 8.	Acres Yield per acre Value per unit Gross return  SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor	Hay and Mixtu Average 253 Farms Per Acre 84.6 2.1 15.39 32.32	res, 1972 126 High Farms Per Acre 64.2 2.9 15.97 46.31	Farms Per Acre  105.3 1.5 14.79 22.19
1. 2. 3. 4. 5. 6. 7. 8.	Acres Yield per acre Value per unit Gross return  SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor Custom work	Hay and Mixtu Average 253 Farms Per Acre 84.6 2.1 15.39 32.32 1.99 .01 1.69	res, 1972 126 High Farms Per Acre 64.2 2.9 15.97 46.31 3.30 .02 2.41	Farms Per Acre  105.3     1.5 14.79 22.19  1.19
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	Acres Yield per acre Value per unit Gross return  SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor Custom work	Hay and Mixtu Average 253 Farms Per Acre 84.6 2.1 15.39 32.32 1.99 .01 1.69	res, 1972 126 High Farms Per Acre 64.2 2.9 15.97 46.31 3.30 .02 2.41	Farms Per Acro  105.3     1.5 14.79 22.19  1.19 1.25     .24 2.68
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 111.	Acres Yield per acre Value per unit Gross return  SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor Custom work TOTAL SUPPLEMENTAL COSTS Return Over Supplemental Costs	Hay and Mixtu Average 253 Farms Per Acre 84.6 2.1 15.39 32.32 1.99 .01 1.69	res, 1972 126 High Farms Per Acre 64.2 2.9 15.97 46.31 3.30 .02 2.41 .87 6.60	Farms Per Acr  105.3     1.5 14.79 22.19  1.19 1.25     .24 2.68
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 112. 13.	Acres Yield per acre Value per unit Gross return  SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor Custom work TOTAL SUPPLEMENTAL COSTS Return Over Supplemental Costs  ALLOCATED COSTS	Hay and Mixtu Average 253 Farms Per Acre 84.6 2.1 15.39 32.32 1.99 .01 1.69 .47 4.16 28.16	res, 1972 126 High Farms Per Acre  64.2 2.9 15.97 46.31  3.30 .02 2.41 .87 6.60 39.71	Farms Per Acr  105.3     1.5 14.79 22.19  1.19     1.25     .24 2.68 19.51
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 111. 13. 14.	Acres Yield per acre Value per unit Gross return  SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor Custom work TOTAL SUPPLEMENTAL COSTS Return Over Supplemental Costs  ALLOCATED COSTS Power and crop machinery expense	Hay and Mixtu Average 253 Farms Per Acre 84.6 2.1 15.39 32.32 1.99 .01 1.69 .47 4.16 28.16	res, 1972  126 High Farms Per Acre  64.2 2.9 15.97 46.31  3.30 .02 2.41 .87 6.60 39.71	Farms Per Acr  105.3     1.5 14.79 22.19  1.19     1.25     .24 2.68 19.51
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 111. 12. 13. 14. 15.	Acres Yield per acre Value per unit Gross return  SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor Custom work TOTAL SUPPLEMENTAL COSTS Return Over Supplemental Costs  ALLOCATED COSTS Power and crop machinery expense Land cost	Hay and Mixtu Average 253 Farms Per Acre 84.6 2.1 15.39 32.32 1.99 .01 1.69 .47 4.16 28.16	res, 1972 126 High Farms Per Acre  64.2 2.9 15.97 46.31  3.30 .02 2.41 .87 6.60 39.71	Farms Per Acr  105.3     1.5 14.79 22.19  1.19     1.25     .24 2.68 19.51
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 112. 13. 145. 16.	Acres Yield per acre Value per unit Gross return  SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor Custom work TOTAL SUPPLEMENTAL COSTS Return Over Supplemental Costs  ALLOCATED COSTS Power and crop machinery expense Land cost Miscellaneous costs	Hay and Mixtu Average 253 Farms Per Acre 84.6 2.1 15.39 32.32 1.99 .01 1.69 .47 4.16 28.16	res, 1972 126 High Farms Per Acre  64.2 2.9 15.97 46.31  3.30 .02 2.41 .87 6.60 39.71	Farms Per Acr  105.3     1.5 14.79 22.19  1.19     1.25     .24 2.68 19.51  15.76 5.94
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 13. 134. 15. 16. 17.	Acres Yield per acre Value per unit Gross return  SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor Custom work TOTAL SUPPLEMENTAL COSTS Return Over Supplemental Costs  ALLOCATED COSTS Power and crop machinery expense Land cost Miscellaneous costs TOTAL ALLOCATED COSTS	Hay and Mixtu Average 253 Farms Per Acre 84.6 2.1 15.39 32.32 1.99 .01 1.69 .47 4.16 28.16	res, 1972  126 High Farms Per Acre  64.2 2.9 15.97 46.31  3.30 .02 2.41 .87 6.60 39.71	Farms Per Acr  105.3     1.5 14.79 22.19  1.19     1.25     .24 2.68 19.51  15.76 5.94
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 13. 134. 15. 16. 17.	Acres Yield per acre Value per unit Gross return  SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor Custom work TOTAL SUPPLEMENTAL COSTS Return Over Supplemental Costs  ALLOCATED COSTS Power and crop machinery expense Land cost Miscellaneous costs TOTAL ALLOCATED COSTS	Hay and Mixtu Average 253 Farms Per Acre 84.6 2.1 15.39 32.32 1.99 .01 1.69 .47 4.16 28.16	res, 1972 126 High Farms Per Acre  64.2 2.9 15.97 46.31  3.30 .02 2.41 .87 6.60 39.71  11.48 7.51 18.99	Farms Per Acr  105.3     1.5 14.79 22.19  1.19     1.25     .24 2.68 19.51  15.76 5.94 21.70
1. 2. 3. 4. 5. 6. 7. 8. 910. 112. 13. 145. 167. 18.	Acres Yield per acre Value per unit Gross return  SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor Custom work TOTAL SUPPLEMENTAL COSTS Return Over Supplemental Costs  ALLOCATED COSTS Power and crop machinery expense Land cost Miscellaneous costs TOTAL ALLOCATED COSTS TOTAL LISTED COSTS	Hay and Mixtu Average 253 Farms Per Acre 84.6 2.1 15.39 32.32 1.99 .01 1.69 .47 4.16 28.16	res, 1972 126 High Farms Per Acre  64.2 2.9 15.97 46.31  3.30 .02 2.41 .87 6.60 39.71  11.48 7.51 18.99 25.59	Farms Per Acro  105.3     1.5 14.79 22.19  1.19     1.25     .24 2.68 19.51  15.76 5.94  21.70 24.38
1. 2. 3. 4. 5. 6. 7. 8. 910. 112. 13. 145. 167. 18.	Acres Yield per acre Value per unit Gross return  SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor Custom work TOTAL SUPPLEMENTAL COSTS Return Over Supplemental Costs  ALLOCATED COSTS Power and crop machinery expense Land cost Miscellaneous costs TOTAL ALLOCATED COSTS Return Over Total Listed Costs	Hay and Mixtu Average 253 Farms Per Acre 84.6 2.1 15.39 32.32 1.99 .01 1.69 .47 4.16 28.16	res, 1972 126 High Farms Per Acre  64.2 2.9 15.97 46.31  3.30 .02 2.41 .87 6.60 39.71  11.48 7.51 18.99 25.59 20.72	Farms Per Acr  105.3     1.5 14.79 22.19  1.19     1.25     .24 2.68 19.51  15.76 5.94  21.70 24.38 (-2.19)
1.23.4.56.78.90.12.3.4.56.78.	Acres Yield per acre Value per unit Gross return  SUPPLEMENTAL COSTS Fertilizer Chemicals Seed and other Hired labor Custom work TOTAL SUPPLEMENTAL COSTS Return Over Supplemental Costs  ALLOCATED COSTS Power and crop machinery expense Land cost Miscellaneous costs TOTAL ALLOCATED COSTS TOTAL LISTED COSTS	Hay and Mixtu Average 253 Farms Per Acre 84.6 2.1 15.39 32.32 1.99 .01 1.69 .47 4.16 28.16	res, 1972 126 High Farms Per Acre  64.2 2.9 15.97 46.31  3.30 .02 2.41 .87 6.60 39.71  11.48 7.51 18.99 25.59	Farms Per Acr  105.3     1.5     14.79     22.19  1.19     1.25     .24     2.68     19.51  15.76     5.94  21.70     24.38

Table 10. Crop Data for Tame Grass Hay, 1972

		Average 15 Farms	7 High Farms	7 Low Farms
		Per Acre	Per Acre	Per Acre
	Acres	33.3	11.3	51.4
	Yield per acre	1.0	2.1.	•7
3.	Value per unit	11.40	11.88	10.54
4.	Gross return	11.40	24.95	7.38
5.	SUPPLEMENTAL COSTS			
6.	Fertilizer	1.44	.71	1.87
7.	Chemicals			
8.	Seed and other	.42	1.59	.23
9.	Hired labor			_
10.	Custom work	.30		•33
11.	TOTAL SUPPLEMENTAL COSTS	2.16	2.30	2.43
12.	Return Over supplemental costs	9.24	22.65	4.95
13.	ALLOCATED COSTS			
14.	Power and crop machinery expense	6.34	5.74	7.88
	Land cost	5.20	6.46	5.08
16.	Miscellaneous costs	-	• •	•
17.	TOTAL ALLOCATED COSTS	11.54	12.20	12.96
18.	TOTAL LISTED COSTS	13.70	14.50	15.39
19.	Return Over Total Listed Costs	(-2.30)	10.45	(-8.01)
	Per Unit Cost	14.26	6.83	22.60

Table	10.	Crob	Data	TOT.	Annual	пау	1912
							A

		Average 8 Farms	4 High Farms	4 Low Farms
********		Per Acre	Per Acre	Per Acre
2. 3.	Acres Yield per acre Value per unit Gross return	38.6 1.5 11.88 17.82	47.3 1.8 13.25 23.85	30.0 1.0 10.50 10.50
6. 7.	Chemicals Seed and other Hired labor	•96	.78	1.23
11.	TOTAL SUPPLEMENTAL COSTS	.96	.78	1.23
12.	Return Over Supplemental Costs	16.86	23.07	9.27
14.	ALLOCATED COSTS Power and crop machinery expense	9.51	8.61	11.82
15.		9.82	10.44	8.83
17. 18.	Miscellaneous costs TOTAL ALLOCATED COSTS TOTAL LISTED COSTS Return Over Total Listed Costs Per Unit Cost	19.33 20.29 (-2.47) 13.74	19.05 19.83 .4.02 11.03	20.65 21.88 (-11.38) 22.63

### TOTAL FEED COSTS AND RETURNS FROM YOUR LIVESTOCK ENTERPRISES

The total "return over feed costs" for each class of livestock is shown in Tables 11 through 18. This differs from the "return over feed" shown in the enterprise statement in that it is the total for each class of livestock instead of a return from all classes of livestock. These data indicate the relative importance of different classes of livestock as a source of income and as a market for feed. The total return is the same as the returns and net increases shown on page 8. The return over feed is not a net return, but rather the amount available, after feed costs, to cover the costs for hired labor, power, equipment, taxes, insurance, interest and veterinary bills and to provide a return for the use of family labor and capital.

Feed is the largest single item of cost for all classes of livestock. However, the proportion of the total cost represented by feed varies considerably between classes of livestock. Feed makes up approximately 45 per cent of the total cost of maintaining dairy cattle and poultry, 50 per cent in the case of a farm flock of sheep and 75 - 90% for hogs, feeder cattle and feeder lambs. Consequently, it is necessary to secure a relatively higher return over feed from dairy cattle and poultry than from the other livestock enterprises in order to be able to cover all the costs other than feed.

The pasture charge allocation is determined by using a land charge. Actual acres for each class of livestock, with their respective land values are used.

Supplemental costs include miscellaneous livestock expenses, veterinary expense and custom work.

This year, allocated expenses for power and machinery, livestock equipment and buildings and fences have been added on the basis of work unit proportion.

Table 11A. Costs and returns From Complete Hog Enterprise, 1972

Ta	ble 11A. Costs and returns From Complet	е Н	og Enterpris	e, 1972	
			Average	14 High	14 Low
			41 Farms	Farms	Farms
			Per Cwt	Per Cwt	Per Cwt
1.	Pounds of hogs produced		36991	39930	33910
2.	Total value produced	\$	30.30	34.43	25.19
3.	Pounds of Feed Fed				
4.	Corn		202.4	178.4	272.1
5.	Small grain		232.2	192.6	239.3
6.	Protein, salt and mineral		67.9	71.4	59.6
7.	Complete ration		47.9	56.4	61.2
8.	TOTAL CONCENTRATES		550.4	498.8	632.2
9.	Forages		9.7	5.7	4.3
4.0	77 7. 0				
	Feed Cost				
11.	Concentrates and forages		14.03	12.61	15.55
12.	Pasture		.07	.02	.05
13.	TOTAL FEED COSTS	\$	14.10	12.63	15.60
14.	RETURN OVER FEED COST	\$	16.20	21.80	9.59
15.	Supplemental Costs				
16.	Miscellaneous livestock expense		.38	.46	.29
17.	Veterinary expense		.38	.47	.24
18.	Custom work		•57	•79	.42
19.	TOTAL SUPPLEMENTAL COSTS	\$	1.33	1.72	• 95
	4				
20.	RETURN OVER FEED AND SUPPLEMENTAL COSTS	\$	14.87	20.08	8.64
20A	Allocated Costs				
20B	Power and machinery costs		.41	•35	.60
20C	Livestock equipment costs		.27	<b>.</b> 33	.24
20D	Building and fences		•45	.34	.84
20E	TOTAL ALLOCATED COST		1.13	1.02	1.68
			_		
2OF	RETURN OVER ALL LISTED COSTS		13.74	19.06	6.96
21.	SUPPLEMENTARY MANAGEMENT INFORMATION				
22.	Return for \$100 feed fed		214.86	272.62	161.49
23.	Price received per cwt.		27.29	28.66	25.32
24.	Number of litters farrowed		36	38	29
25.	Number of pigs born per litter		6.8	8.8	5.0
26.	Number of pigs weaned per litter		5.2	7.3	3.7
27.	Per cent death loss		16.1	12.4	15.1
28.	Average weight of hogs sold		184.3	154.9	248.6
29.	Price per cwt. concentrate fed	\$	2.54	2.52	2.45
30.	Pounds of pork purchased	**	1711	2104	1492
/ • •	"		. 1 . 1	- r O T	, T.J.

Farms included in Table 11A carried out a complete program of farrowing and marketing their own hogs. Purchases were primarily breeding stock. The feed costs include feed for the breeding herd and market animals. Only those farms producing more than 5,000 pounds of pork were included in the averages.

Table 11B. Costs and Returns From Hog Finishing Enterprise, 1972

Tal	ole 11B. Costs and Returns From Hog Fini	shi	ing Enterpr	ise, 1972	
			Average	2 High	2 Low
			7 Farms	Farms	Farms
	<u> </u>	······	Per Cwt	Per Cwt	Per Cwt
1	Average number of pigs on hand		95.6	147.8	76.0
	Pounds of hogs produced	ø.	30701	48250	22775
٥.	Total value produced	\$	26.33	27.18	22.24
4.	Pounds of Feed Fed				
5.	Corn		57.3	73.7	114.1
6.	Small grain		149.1	200.3	144.0
7.	Protein, salt and mineral		32.1	1.6	119.1
8.	Complete ration		229.0	45.6	263.4
9,	TOTAL CONCENTRATES		467.5	321.2	
9,	TOTAL CONCENTRATES		401.7	Ja. 1 . a.	040.0
10.	Forages		1.1		5.3
11.	Feed Cost				
12.	Concentrates and forages		12.88	9.21	17.00
13.	Pasture				
14.	TOTAL FEED COSTS	\$	12.88	9.21	17.00
15.	RETURN OVER FEED COST	\$	13.45	17.97	5.24
16.	Supplemental Costs				
17.	Miscellaneous livestock expense		•59	.65	.76
18.	Veterinary expense		.09	.05	.03
19.	Custom work		.79	.99	.92
20.	TOTAL SUPPLEMENTAL COSTS	\$	1.47	1.69	1.71
21.	RETURN OVER FEED AND SUPPLEMENTAL COSTS	\$	11.98	16.28	3.53
	Allocated Costs		00	4 (**	70
21B	Power and machinery costs		.20	.17	. 30
21C	Livestock equipment costs		.13	.16	.12
21 D	Building and fences		.23	.17	.42
21E	TOTAL ALLOCATED COST		.56	.50	.84
2 <b>1</b> F	RETURN OVER ALL LISTED COSTS		11.42	15.78	2.69
22.	SUPPLEMENTARY MANAGEMENT INFORMATION				
23.	Return for \$100 feed fed	\$	204.48	295.12	130.81
24.	Price received per cwt.		29.38	27.14	26.66
25.	Average weight of pigs sold		204.0	225.7	
26.	Average price paid per pig bought		20.27	19.84	
27.	Average weight per pig bought		35.8	41.1	
28.	Number of pigs purchased		171	202	
			6118	8305	
29.	Pounds of pork purchased				
30.	Per cent death loss	dh	5.0	4.0	
31.	Price per cwt. concentrate fed	\$	2.75	2.87	2.64

Farms included in table 11B purchased all hogs fed. None of these farms maintained breeding herds. Only those farms producing over 5,000 pounds of pork were included in the averages.

Table 11C. Costs and Returns From Producing Weaning Pigs, 1972

<u>Ta</u>	<u>ble 11C. Costs and Returns From Producin</u>	g Ì	<u>Weaning Pi</u>	gs, 1972	
			Average	13 High	13 Low
			38 Farms	Farms	Farms
	**************************************	P	<u>er Litter</u>	Per Litter	Per Litter
4	Number of litters formared		67	C 3	ΑE
	Number of litters farrowed	ďΝ	63	61	45
∠.	Total value produced	⊅	<b>2</b> 00.86	219.82	178.09
3.	Pounds of Feed Fed				
4.	Corn		358.0	207.8	576.3
5.	Small grain		1454.6	1810.0	1653.3
6.	Protein, salt and mineral		608.0	306.2	207.0
7.	Complete ration		508.4	217.7	715.9
8.	TOTAL CONCENTRATES		2929.0		3152.5
٥.	TOTAL CONOMITATED		2323.0	۱۰۱ هـ ۲	) 1 ) 2m a )
9.	Forages		87.8	95.8	42.0
10.	Feed Cost				
11.	Concentrates and forages		75.89	68.49	85.44
12.	Pasture		.14	.05	•31
13.	TOTAL FEED COSTS	\$	76.03	68.54	85.75
	102-1-	**	( **** )		
14.	RETURN OVER FEED COST	\$	124.83	151.28	92.34
15.	Supplemental Costs				
16.	Miscellaneous livestock expense		4.57	4.61	4.91
17.	Veterinary expense		2.44	1.74	1.96
18.	Custom work		1.48	.69	1.56
19.	TOTAL SUPPLEMENTAL COSTS	\$	8.49	7.04	8.43
20.	RETURN OVER FEED AND SUPPLEMENTAL COSTS	\$	116.34	144.24	83.91
20.4	Allocated Costs				
20A 20B	Power and machinery costs		4.76	4.09	6.88
200 200	Livestock equipment costs		3.15	<b>3.</b> 79	2.82
20D	Building and fences		5.23	3.93	9.83
20E	TOTAL ALLOCATED COSTS		13.14	11.81	19.53
2.OE	TOTAL ADDOCATED COSTS		リフェーケ	11.01	13077
20F	RETURN OVER ALL LISTED COSTS		103.20	132.43	64.38
21.	SUPPLEMENTARY MANAGEMENT INFORMATION				
22.	Return for \$100 feed fed	\$	264.18	320.71	207.67
23.	Average price received per pig sold	\$		24.58	26.05
24.	Number of pigs produced	•	477	476	310
25.	Number of pigs born per litter		9.2	8.8	8.7
26.	Number of pigs weaned per litter		7.6	7.8	6.9
27.	Per cent death loss		14.2	9.3	15.6
28.	Price per cwt. concentrate fed	\$	2.57	2.66	2.70
	_	.,		9.68	13.67
29.	Feed and suppl. costs per pig produced	Φ	11.10	7.00	17.01

Farms included in Table 11C include only those which produced and sold weaning pigs.

Table 12. Dairy Cows, 1972

<u>Ta</u>	ble 12. Dairy Cows, 1972				
			Average	78 High	78 Low
		2	236 Farms	Farms	Farms
***************************************			Per Cow	Per Cow	Per Cow
4	A		70.0	77.6	O A 177
	Average number of cows		30.0	36.2	24.3
	Pounds of milk		10719	12489	8222
	Pounds of butterfat		401.8	429.4	388.8
4.	Per cent of butterfat in milk		3.8	3.4	4.8
5.	Value of Produce				
6.	Dairy products sold	\$	533.77	633.95	391.98
7.	Dairy products used in home	Ψ	6.80	6.63	7.08
8.	Milk fed to livestock		8.67	9.97	
	Net increases in value of cows				7,45
9.		dh	1.97	15.69	(-11.89)
10.	TOTAL VALUE PRODUCED	\$	551.21	666.24	394.62
11.	Pounds of Feed Fed				
12.	Corn		1104.8	1395.2	933.0
13.	Small grain & complete ration		3328.4	3459.2	3183.6
14.	Protein, salt and mineral		469.5	565.7	409.8
15.	TOTAL CONCENTRATES		4902.7	5420.1	
1).	TOTAL CONCENTINATES		4302.1	3420.1	4526.4
16.	Legume hay		7827.7	8266.8	7346.2
17.	Other hay and dry roughage		352.3	452.6	545.8
	Silage		9174.6	8941.4	8186.7
					0.000,
_	Feed Costs				
20.	Concentrates		120.00	133.70	105.88
21.	Roughages		88.20	87.10	84.98
22.	Pasture		5.63	4.45	7.49
23.	TOTAL FEED COSTS	\$	213.83	2 <b>25.</b> 25	198.35
24.	RETURN OVER FEED COST	\$	337.38	440.99	196.27
25.	Supplemental Costs				
26.	Miscellaneous livestock expense		20.70	27.38	11.89
27.			_		
	Veterinary expense		9.67	10.91	5.93
28.		dЬ	25.37	30.22	
29.	TOTAL SUPPLEMENTAL COSTS	\$	55.74	68.51	36.63
30.	RETURN OVER FEED & SUPP. COSTS	\$	281.64	372.48	159.64
30A	Allocated Costs				
30B	Power and machinery costs		24.33	20.82	35.14
	Livestock equipment costs		15.75	19.01	
	Building and fences		26.26	19.73	
30E	TOTAL ALLOCATED COSTS		66.34	59.56	
30F	RETURN OVER ALL LISTED COSTS		215.30	312.92	
	SUPPLEMENTARY MANAGEMENT INFORMATION				
32.	Return for \$100 feed fed	\$	257.77	295.78	198.94
33.	Feed cost per cwt. milk	\$	1.99	1.80	2.41
34.	Feed cost per pounds of butterfat	\$	.532	•525	.510
35.	Pounds of milk per 1b.concentrate		2.186	2.304	1.816
36.	Average price per cwt. milk sold			5.21	4.94
37.	Average price per lb. of butterfa		1.37	1.52	1.04
- 1 -	O- F T				1 + 2 =

Tal	ble 13. Other Dairy Cattle, 1972				
			Average	78 High	78 Low
			235 Farms	Farms	Farms
-			Per Head	Per Head	Per Head
٦.	Number of head		37.7	34.7	42.3
2.	Net Increase in value		162.79	219.16	116.00
3.	Pounds of Feed Fed				
4A	Corn and small grain		554.8	573.9	817.0
4B	Protein, salt and mineral		77.0	54.6	75.3
4C	Complete dairy ration		148.0	174.1	163.9
5.	Hay and roughage		2845.5	2533.1	3211.1
6.	Silage		3041.8	3397.3	2981.1
7.	Milk		142.4	136.1	145.7
	Feed Cost		, , _ , ,	.,,,,,,	. , , , , ,
9.	Concentrates		22.86	20.63	25.20
10.	Roughages		31.51	28.76	35.20
11.	Milk		6.90	6.25	7.26
12.	Pasture		2.84	2.31	3.17
13.	TOTAL FEED COSTS	\$	64.11	57.95	70.83
14.	RETURN OVER FEED COST	\$	98.68	161.21	45.17
15.	Supplemental Costs				
16.	Miscellaneous livestock expense		.48	•	1.16
17.	Veterinary expense		.19		.40
18.	Custom work		.40		• 95
19.	TOTAL SUPPLEMENTAL COSTS	\$	1.07		2.51
20.	RETURN OVER FEED & SUPPLEMENTAL COST	S	97.61	161.21	42.66
20A	Allocated Costs				
20B	Power and machinery costs		4.16	3.54	6.00
20C	Livestock equipment costs		2.70	3.26	2.45
20D	Building and fences		4.50	3.38	8.44
20E	TOTAL ALLOCATED COSTS		11.36	10.18	16.89
20F	RETURN OVER ALL LISTED COSTS		86.25	151.03	25.77
21.	SUPPLEMENTARY MANAGEMENT INFORMATION				
22.	Return for \$100 feed fed		253.91	378.17	163.79
23.	Per cent death loss		8.6	8.3	9.7

Table 14. All Dairy and Dual Purpose Cattle, 1972					
			Average	78 High	78 Low
		Ź	237 Farms	Farms	Farms
			Per Cow	Per Cow	Per Cow
4	, , , , , , , , , , , , , , , , , , ,		70.0	74 0	26 -
	Average number of cows	dh.	30.0	34.8	26.5
۷.	Value of dairy products	\$	548.53	643.53	424.87
3.	Net increase in value	\$	205.83	265.95	137.96
4.	TOTAL VALUE PRODUCED	\$	754.36	909.48	562.83
5.	Pounds of Feed Fed				•
6.	Concentrates		12130.5	20507.3	7778.9
7.	Hay and dry roughage		11725.0	12650.6	11439.4
8.	Silage		12976.8	14283.1	12277.9
9.	Feed Cost				
10.	Concentrates		157.60	172.33	132.19
11.	Roughage		127.53	133.10	128.91
12.	Pasture costs		9.13	7.96	10.83
13.	TOTAL FEED COSTS	\$	294.26	313.39	271.93
14.	RETURN OVER FEED COST	\$	460.10	596.09	290.90
15.	Supplemental Costs				
16.	Miscellaneous livestock expense		21.27	25.75	13.62
17.	Veterinary expense		9.90	12.70	6.15
18.	Custom work		25.87	30.89	19.66
19.	TOTAL SUPPLEMENTAL COSTS	\$	57.04	69.34	39.43
20.	RETURN OVER FEED & SUPPLE. COSTS	\$	403.06	526.75	251.47
20A	Allocated Costs				,
20B			29.56	24.39	44.75
200	Livestock equipment costs		19.14	22.26	17.98
20D			31.92	23.10	62.67
20E	_		80,62	69.75	125.40
20F	RETURN OVER ALL LISTED COSTS		322.44	457.00	126.07
21	SUPPLEMENTARY MANAGEMENT INFORMATION				
22.	Return for \$100 feed fed	\$	256.35	290.21	206.98
C C 4	TO SKIII TOT WIOO TOOK TOK	41/	ニノマ・ノノ	2,70.21	

Table 14 presents a picture of the costs and returns from the whole dairy herd on a per cow basis. Return above feed cost (Table 12) was the factor used to determine these high and low average farms. The cost listed are only a portion of the total cost for dairy. Other costs to consider would include labor and interest.

Ta	ble 15A. Beef Breeding cattle, 1972			
		Average	36 High	36 Low
		108 Farms	Farms	Farms
		Per Cow	Per Cow	Per Cow
<b>4</b> .	A	40.7	40.4	C 4 22
	Average number of beef cows	48.3	49.1	54.3
	Average number of other beef an. & k		41.4	40.0
	Pounds of beef produced	22439	24555	20834
4.	Net increase in value	217.74	276.80	153.37
5	Pounds of Feed Fed			
6.	Grain	583.4	515.2	669.3
7.	Protein, salt and mineral	67.8	119.3	35.8 5460.4
8.	Legume hay	6166.6	5399.8	5462.4
9.	Other hay and dry roughage	348.7	390.7	347.9
10.	Silage	6971.6	6651.7	6845.1
11	Feed Cost			
12.	Concentrates	13.85	14.75	12.43
	Roughages	57.64		
14.	roughages Pasture		51.43	54.59
		13.58	13.75	15.10
15.	TOTAL FEED COSTS	85.07	79.93	82.12
16.	RETURN OVER FEED COST	\$ 132.67	196.87	71.25
		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
17.	Supplemental Costs			
18.	Miscellaneous livestock expense	2.92	2.51	2.69
19.	Veterinary expense	2.40	2.24	1.82
20.	Custom work	2.51	2.14	2.23
21.	TOTAL SUPPLEMENTAL COSTS	\$ 7.83	6.89	6.74
			_	
22.	RETURN OVER FEED & SUPPLE. COSTS	\$ 124.84	189.98	64.51
~~ .	477			•
	Allocated Costs	m		
22B		5.19	4.46	7.53
	Livestock equipment costs	3.37	4.07	3.02
2 <b>2</b> D	Building and fences	5.63	4.23	10.54
22E	TOTAL ALLOCATED COSTS	14.19	12.76	21.09
<b>2</b> 2 Til	RETURN OVER ALL LISTED COSTS	110 65	177 20	12 10
C C.I.	CICOO CEICIL LLA MAVO MAUIAN	110.65	177.22	43.42
23.	SUPPLEMENTARY MANAGEMENT INFORMATION			
24.	Return for \$100 feed fed	\$ 255.95	346.27	186.77
25.	Price per cwt. sold	36.00	36.50	34.85
26.	Average weight per head sold	605	650	591
27.	Percent death loss	3 <b>.</b> 9	3.1	5.1
28.		88	94	79
	TOTOCITO OCCIT OF OF	00	ンサ	13

Ta	ble 15B. Feeder Cattle, 1972	******************************			
		<i>I</i> 62 P€		20 High Farms	20 Low Farms
		re	ST. CM.	Per Cwt.	Per Cwt.
2.	Average number of beef feeders Pounds of beef produced Net increase in value of animals	<del>(9)</del>	53.8 28337 33.37	42.8 20747 40.29	44.8 25003 26.23
4	Pounds of Feed Fed				
5.	Grain		430.7	279.4	519.0
6.	Protein, salt and mineral		37.5	35.3	48.2
7.	Legume hay		438.3	545.4	604.3
8.	Other hay and dry roughage		19.7	7.7.1	35.0
9.	Silage		832.8	1018.0	1163.7
10.	Feed Cost				
11.	Concentrates		10.74	7.05	12.56
12.	Roughages		5.25	6.48	6.68
13.	Pasture		.36	.60	.22
14.	TOTAL FEED COSTS	\$	16.35	14.13	19.46
15.	RETURN OVER FEED COST	69	17.02	26.16	6.77
16.	Supplemental Costs				
17.	Miscellaneous livestock expense		.30	.46	.28
18.	Veterinary expense		.44	.40	. 34
19.	Custom work		•57	•73	.81
20.	TOTAL SUPPLEMENTAL COSTS	\$	1.31	1.59	1.43
21.	RETURN OVER FEED & SUPPLEMENTAL COSTS	\$	15.71	24.57	5.34
	Allocated Costs				
21B	Power and machinery costs		•41	<u>.</u> 35	.60
21C	Livestock equipment costs		.27	• 33	. 24
21D	Building and fences		• 45	. 34	.84
21E	TOTAL ALLOCATED COSTS		1.13	1.02	1.68
21F	RETURN OVER ALL LISTED COSTS		14.58	23.55	3.66
23. 24. 25. 26. 27. 28.	SUPPLEMENTARY MANAGEMENT INFORMATION Return for \$100 feed fed Price per cwt. sold Average weight per head sold Price per cwt. bought Average weight per head bought Number of head bought	<del>63 63 63</del>	204.08 34.95 777.1 47.70 229.0	285.06 35.67 691.3 39.37 240.0	134.79 34.31 853.9 52.64 351.7
29.	Percent death loss		3.2	2.0	•9

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. Sheep Flock, 1972

<u>Ta</u>	ble 16A. Sheep Flock, 1972				
			Average 36 Farms	12 High Farms	12 Low Farms
			Per Ewe	Per Ewe	Per Ewe
2. 3.	Average number of ewes Pounds of lamb and mutton produced Pounds of wool produced Value of Produce		89.8 7759 897	94.9 12069 1070	102.0 5597 877
5. 6.			9.61 26.12	11.77 32.23	7.35 21.27
7.	TOTAL VALUE PRODUCED	\$	35.73	44.00	28.62
8. 9. 10. 11. 12.	• • • • •		259.6 18.6 1076.3 73.1 342.5	174.3 20.7 1194.2 68.5 73.9	378.6 17.8 742.6 129.4 381.2
14. 15. 16. 17.	Feed Cost Concentrates Roughages Pasture TOTAL FEED COSTS	69	6.59 9.64 1.96 18.19	4.43 8.82 1.65 14.90	9.81 9.61 1.79 21.21
19.	RETURN OVER FEED COST	\$	17.54	29.10	7.41
20. 21. 22. 23. 24.	Veterinary expense	\$	.80 .94 1.63 3.37	.47 .96 2.74 4.17	1.27 1.17 .78 3.22
25.	RETURN OVER FEED & SUPPLEMENTAL COSTS	\$	14.17	24.93	4.19
25A 25B 25C 25D 25E			2.08 1.35 2.25 5.68	1.78 1.63 1.69 5.10	3.00 1.21 4.22 8.43
25F	RETURN OVER ALL LISTED COSTS		8.49	19.83	(-4.24)
26. 27. 28. 29. 30. 31.	SUPPLEMENTARY MANAGEMENT INFORMATION Return for \$100 feed fed Price per cwt. lamb & mutton sold Lbs. of wool per sheep sheared Number of ewes kept for lambing Percent lamb crop Percent death loss	\$ \$	196.51 25.94 9.3 88 122 11.3	295.33 24.43 10.4 94 135 7.5	134.95 29.64 8.3 96 110 15.5

Table 17	7A.	Laving	Flock -	Chickens,	1972

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ble 17A. Laying Flock - Chickens, 1972		Flock Total verage of 3	Per Hen Farms
			2903.5	3.85 (-1.15)
5.	TOTAL VALUE PRODUCED	\$	7839	2.70
6. 7. 8. 9.	Pounds of Feed Fed Grain Protein, salt and mineral Complete commercial feed TOTAL POUNDS OF FEED			8.4 .3 83.6 92.3
11.	TOTAL FEED COST		9436	3.25
12.	RETURN OVER FEED COST	\$	(-1597)	(55)
13.	SUPPLEMENTAL COSTS	\$	87	.03
14.	RETURN OVER FEED & SUPPLEMENTAL COSTS	\$	(-1684)	(58)
14B	Livestock equipment costs Building and fences		1365	.17 .11 .19 .47
14F	RETURN OVER ALL LISTED COSTS		(-3049)	(-1.05)
15. 16. 17. 18. 19. 20.		\$ \$ ents	83.08 207 .22 .19 (03) 14.4)	

		ock Total	_	Per Cwt.
	7A	rerage of	3	Farms
1. Cwt. No. turkeys produced		3839.64		
2. Net increase in value	\$	69559		18.12
3. Pounds of Feed Fed				
4. Grain				239.4
5. Protein, salt and mineral				54.3
6. Complete commercial feed 7. TOTAL POUNDS OF FEED		. ,		75.5 369.2
(. TOTAL FOUNDS OF FEED				209.2
8. TOTAL FEED COSTS	\$	47612		12.40
9. RETURN OVER FEED COST	\$	21947		5.72
10. SUPPLEMENTAL COSTS	\$	6182		1.61
11. RETURN OVER FEED & SUPPLEMENTAL COSTS	<b>\$</b>	15765		4.11
11A Allocated Costs				
11B Power and machinery costs				.41
11C Livestock equipment costs				.27
11D Building and fences		4770		.45
11E TOTAL ALLOCATED COSTS		4339		1.13
11F RETURN OVER ALL LISTED COSTS		11426		2.98
12. SUPPLEMENTARY MANAGEMENT INFORMATION		ŧ		
13. Return for \$100 feed fed	\$	146.10		
4. Number of poults purchased		22227		
5. Price paid per poult purchased	•	•55		
<pre>16. Percent death loss 17. Price per cwt. of feed</pre>	\$	4.1 3.36		
<ol> <li>Price per cwt. of feed</li> <li>Price received per lbs. of turkeys so</li> </ol>		.21		
19. Weight per bird sold in pounds	W	18.7		

### Average of Prices of Feed and Produce Used in Home, 1972

Farm Grown Grains Oats \$ .61 Barley .94 Wheat 1.62 Oats Mixture .80 Rye .94 Corn 1.13 Oats & Peas .70	Hay       \$ 16.00         Red Clover       12.00         Wild Hay       8.00         Sweet Clover       9.00         Brome       10.00         Mixed Legume       14.00
Other Roughages Corn silage \$ 6.00 per ton Grass silage 5.00 per ton Oats silage 5.00 per ton Haylage 9.00 per ton	Milk for Feed Whole milk-Gr. A. \$ 5.12 per cwt. Whole milk-Gr. B. 4.65 per cwt. Skim milk .91 per cwt.
<pre>Home Produce Milk \$ .11 per qt.</pre>	Unpaid family labor \$ 10.00 per day
Cream .27 per pt. Poultry(live) .12 per lb. Beef(live) .28 per lb.	Board for hired labor \$ 3.00 per day unless otherwise specified
Hogs(live) .23 per 1b. Eggs .36 per doz.	

#### EXPLANATION OF "WORK UNITS"

The total "work units" for any one farm is a measure of the size of that farm business. A work unit as used in this report is the average accomplishment of a farm worker, in a ten hour day, 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. Days of work off the farm for pay are not included in work units computations in this report.

Number of Work Units for Each Class of Livestock and Acre of Crop.

	No. of		No. of
Item	Work Units	Item	Work Units
Dairy cows	7.00 per head	Turkeys, lay. flock	25.00 per 100
Other dairy cows	1.20 per head	Bees	.33 per hive
Beef breeding cows	1.50 per head	Small grain	.3 per Acre
Feeder cattle	.12 per cwt.	Corn for grain	.55 per Acre
Sheep, farm flock	.6 per head	Corn silage	.8 per Acre
Lambs, feeders	.30 per cwt.	Alfalfa	.6 per Acre
Hogs, complete	.12 per cwt.	Other hay	.4 per Acre
Hogs, finishing	.06 per cwt.	Legume seed	.4 per Acre
Hogs, weaning pigs	1.40 per lit.	Grass silage	.4 per Acre
Chickens, lay. flock	5.00 per 100	Potatoes	3.0 per Acre
Chickens, broilers	.20 per cwt.	Sugar beets	2.0 per Acre
Turkeys, poults	.12 per cwt.	Fallow	.4 per Acre

SUMMARY	ALO.	FARM	EARNINGS	RY	YEARS
COULTITIE	O3.	T. TITLE	TURTILLE	DT	11111111

COLLUCT OF LYIN DATHERAD DI TRAICO						
Years		1955	1960	1965	1970	1972
Number of farms		50	57	202	323	482
FARM RECEIPTS					•	• "
Dairy	\$	613	986	1251	2096	2595
Dairy products		2305	2962	4105	7294	7945
Beef cattle (incl. feeders)		361	1770	2625	3454	3940
Hogs		227	483	1166	1545	2177
Sheep and wool (incl. feeders)		395	786	322	221	450
Other productive livestock		51	141	37	149	79
Poultry (incl. turkeys)		56	1047	2310	656	550
Eggs		417	511	664	535	138
Crops		3225	3573	4970	7957	12082
Mach. & equip. sold & gas tax refund		172	335	410	394	854
Income from work off the farm		179	373	188	250	319
Miscellaneous		214	241	635	2001	1725
(1) Total Farm Sales	\$	8214	13208	18683	26552	32854
(2) Increase in Farm Capital		370 370	1704	2345	2771	8527
(3) Family Living From the Farm		277	337	283	337	391
(4) Total Farm Receipts $(1)+(2)+(3)$	\$	8861	15249	21311	29660	41772
FARM EXPENSES						, , , , , , , , , , , , , , , , , , , ,
Dairy cattle bought	\$	188	325	168	456	699
Beef cattle bought (incl. feeders)		18	988	641	1261	1109
Hogs bought		12	38	66	242	216
Sheep bought (incl. feeders)		23	222	40	18	36
Other productive livestock		26	59	25	46	20
Poultry bought (incl. turkeys)		39	210	425	265	88
Miscellaneous livestock expense		177	304	441	593	699
Feed bought		460	1460	3232	2733	2721
Fertilizers and chemicals		334	504	867	1645	2121
Other crop expense		567	694	1017	1444	2033
Custom work hired		327	431	659	785	866
Gas, oil & grease bought (farm share)		855	1058	1002	1302	1460
Rep. & op. mach., tract., & auto (f.s.)		517	734	941	1477	1905
Repair & upkeep of real estate		116	118	148	275	502
Repair & upkeep of livestock equipment		61	67	95	221	148
Wages of hired labor		398	437	654	962	1125
Electricity expense (farm share)		152	191	262	392	463
Real estate & pers. property taxes		370	519	637	860	857
General farm expense		101	173	272	424	507
(5) Total Cash Operating Expenses	\$	4742	8532	11592	15401	17575
(6) Pw., crop & gen. mach. bought (f.s)	**	1438	1031	1908	3239	4920
(7) Livestock equipment bought		84	122	195	357	485
(8) Buildings & fencing bought		450	894	1255	2604	<u>3910</u>
(9) TOTAL FARM PUCHASES (5) to (8)	\$	6713	10579	14950	21601	26890
10) Decrease in Farm Capital	***	9117	1~213	・エンノン	4,001	
11) Interest on Farm Capital		1303	1500	2068	5314	5808
12) Unpaid Family Labor		140	409	96	486	389
13) Labor Charge for Partners & other Ope	rato		- <b>T</b> -V-J	)0	700	120
14) Board Furnished Hired Labor	_ ~ ~ ~ ~ .	76	130	86	57	51
15) TOTAL FARM EXPENSES (9) to (14)	\$	8232	12618	17200	<del>27458</del>	<del>33258</del>
16) Labor Earnings (4) - (15)	\$	629	2631	4111	2202	8517
17) NET CASH INCOME (1) - (9)	\$	1501	2629	3733	4951	5964
	"				, , , , ,	(

SUMMARY	$\Delta E$	MICCEL	J.A	PITOTIC	TURMS	RY	YEARS
DUBBLART	U.P.	コユエンし じょ	JJJE	COOCIE	TTERT	D3.	TERRITA

Items	<u> 1955</u>	1960	1965	1970*	1972
SIZE					
Vork units	389	374	479	353	351
Tillable acres	319	385	491	465	467
Number of milk cows	14	17	26.1	29.7	30.0
Number of litters of pigs	4	6	29	51	63
Pounds of hogs produced	3631	2756	28842	26707	36991
Pounds of feeder cattle produced		18372	25457		28337
Number of ewes	47	84	85	90.2	90.0
Number of beef cows	14	22	45	46	48
Number of chickens	170	313	2569		2903
EFFICIENCIES - YIELD PER ACRE					
)ats	39.8	53.8	53.1	40.8	53.4
Alfalfa	1.6	1.6	1.9	2.3	2.7
Barley	19.9	31.1	43.5	36.9	47.5
Vheat	18.4	29.3	27.2	25.4	32.2
Flax	7.4	10.8	8.2	11.3	15.9
Corn	44.0	54.2	33.3		67.6
Soybeans		<u>.</u> .	12.6	17.1	22.1
Corn silage	6.6	6.6	5.7	7.6	10.4
дуе	31.0	12.5	22.5	35.8	27.5
LIVESTOCK					
Pounds butterfat per dairy cow	250	331	361	399	402
Pigs weaned per litter	7.2	8.0	8,0	7.3	7.6
Eggs per hen	162	188	221		20.7
Lambing percentage	127	115	106	126	122
RETURNS ABOVE FEED COST PER:					
Dairy cow	97.13	149.93	176.75	325.21	337.38
Cwt. of hogs	1.86	8.02	11.37	3.04	16.20
Ewe	7.60	5.65	14.60	12.30	17.54
Ien	1.36	1.70	1.71		55
Litter	_		82.65	33.33	124.83
Cwt. of feeder cattle		5.85	8.07	8.70	16.35
Beef cow	3.25	37.92	25.26	65.63	132.67
DETARG DEARTHEN DED.					
PRICES RECEIVED PER:	.73	.90	.97	1.31	1.37
Cwt. hogs	15.00	17.38		21.23	27.29
Wut. feeder cattle	. , , , , ,	23.42			34.95
wt. lamb	17.48	18.05	23.28	22.35	25.94
eeder pig	. ,	, 0, 0,		19.94	24.61
Oozen eggs (¢)	32.5	29.0	28.9	۱ در د در د	.22
ets, bushel	<i></i>	•54	•54	•56	.66
Alfalfa, ton		12.00	15.33	15.17	16.40
Barley, bushel		.78	1.03	.91	1.01
Theat, bushel		1.85	1.52	1.78	1.79
lax, bushel		2.55	2.68	2.26	2.56
			1.05	1.19	1.07
forn. bushel					
Corn, bushel Covbeans, bushel			∠.∠٥	<+41	フェンン
Soybeans, bushel		4.50	2.26 5.43	2.47 5.95	3.35 5.86
		4.50 .85	5.43 .96		5.86 .86

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