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UNIVERSITY OF MINNESOTA
Department of Agriculture
and the
TENNESSEE VALLEY AUTHORITY
and the
County Extension Services
of

Brown, Jackson, Kandiyohi, Martin, Murray, Nobles, Stevens, Swift, Watonwan, and Yellow Medicine Counties Cooperating

- 0 -

Annual Report
of the
Farm Management Service
for T.V.A. Phosphate-Test
Demonstration Cooperators
in Southwestern Minnesota
1942

- 0 -

Cooperator _____

THIRD ANNUAL REPORT OF THE FARM MANAGEMENT SERVICE FOR T.V.A. PHOSPHATE TEST DEMONSTRATION COOPERATORS IN SOUTHWESTERN MINNESOTA FOR THE YEAR 1942

Prepared by T. R. Nodland and G. A. Pond

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INTRODUCTION

The Division of Agricultural Economics and the Division of Agricultural Extension of the University of Minnesota, the Tennessee Valley Authority and the county extension services of several southwestern Minnesota counties are cooperating in a phosphate test demonstration project and in a farm management service. This service is offered to a selected group of farmers who have agreed to demonstrate the value of phosphate fertilizer and who have also agreed to keep farm business records. The phosphate is provided by the T.V.A. and the fieldman is provided by the T.V.A. and the Agricultural Extension Service. Each farmer pays the freight and other miscellaneous expenses that may occur between the point of shipment and the farm on all the T.V.A. phosphate furnished and \$10.00 per year to cover the summarization of the records and other miscellaneous expenses. The balance of the cost is defrayed by the University of Minnesota.

The analysis of the farm business records and the preparation of the reports are handled by the Division of Agricultural Economics under the direction of G. A. Pond and T. R. Nodland. The field organization is handled by the Division of Agricultural Extension with C. L. McNelly and P. M. Burson in charge of this work. J. R. Burkholder was the field agent on this project. County agricultural agents who cooperated in this project include Paul Kunkel, Roland Abraham, Ronald McCamus, S. B. Simpson, A. B. Hagen, C. E. Stower, Kenneth Hanks, H. W. Soderburg, Wayne Hanson, and George Gehant.

The following tabulation shows by counties the number of cooperators who completed records in 1942:

Brown	13		Nobles	14
Jackson	12		Stevens	8
Kandiyohi	7		Swift	7
Martin	14		Watonwan	10
Murray	3		Yellow Medicine	<u>12</u>
		·.	Total	100

The tables on page 4 and succeeding pages show data for 95 farms. Five farms have been omitted from all the averages in the tables because the records were not sufficiently complete for a full analysis.

The records kept by the cooperators include inventories at the beginning and end of the year, cash receipts and expenses and a record of the farm produce used by the farm family. Complete household and personal records were also kept by cooperators. Supplementary information was secured during the year regarding crop and livestock production and practices.

At the end of the year, the books were taken to the central office at University Farm, where they were checked and summarized. For the purpose of comparison, the earnings as shown in this report are computed as if each operator was a full owner; however, each tenant is supplied a statement of his earnings on the basis of the rental system under which he is operating.

TYPE OF FARMING*

The farms in this area have a wide diversity of enterprises. All classes of live-stock are important although livestock kept for meat production tends to predominate. The sale of crops constitutes an important source of income. The principal feed crops grown are corn, oats, barley and hay. In addition wheat, flax, sweet corn, hybrid seed corn, sugar beets, and canning peas are grown to a limited extent as cash crops.

TOPOGRAPHY. SOILS AND WEATHER

The soils range from dark brown to heavy black loam. The major part of the area is undulating to gently rolling land interspersed with almost level tracts. In the southwestern part of the area the surface ranges from undulating to sharply rolling and in the northwestern part the surface is nearly level. Nearly all the land is tillable and well drained.

^{*}For a more complete description of the area, see Engene, S. A., and Pond, G. A., "Agricultural Production and Types of Farming in Minnesota", Minnesota Bulletin No. 347, May, 1940.

Mahla 1 Monthly and Annual Precipitation

		Table 1.	Monthly	and Annua	1 Precipi	tation		
	Worth	ington	Fair		Will	mar	Mor:	
		Depart-	Precipi-		Precipi-	Depart-		Depart-
	tation	ure from	tation	ure from	tation	ure from	tation	ure from
		normal		normal		normal		normal
	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches
					0.08	-0.38	0	-0.77
January	0.19	-0.44	0.05	-0.75		-0.25	0.09	-0.59
February	0.41	-0.36	0.22	-0.75	0.67			+0.79
March	4.55	+ 3.29	2.27	1 0.86	2.74	∔1.49	1.75	
April	1.26	-0.82	1.44	-0.79	0.93	-0.83	1.91	-0.04
May	6.36	+ 2.42	3.83	-0.22	7.10	44. 09	8.89	1 5.68
June	5.57	41. 28	3.06	-1.28	3.82	-0.26	2.79	-1,25
July	4.14	40.75	4.45	40.89	4.20	+1.00	2.06	-1.50
-	4.52	+ 0.76	4.70	+0.96	2.22	-1.42	4.85	+1.8 4
August September	4.66	+1.12	3.62	-0.01	11.13	+ 8.03	5.94	4 3.52
October	0.80	-0.89	1.00	-0.85	0.30	-1.48	1.45	-0.19
November	0.51	-0.66	0.39	-1.12	0.13	-0.85	0.07	-0.97
December	0.50	-0.11	0.95	40.05	1.10	+0.44	0.70	+ 0.04
1942 total		+6.34	25.98	-3.01	34.42	1 9.58	30.50	+ 6.56
1941 total		+1. 09	32.92	+3.93	28.91	4 4.07	25.61	#1.67
1940 total		-4.63	28.72	-0.27	21.89	-2.95	23,72	-0.22
1939 total		-2.86	21.92	-7.07	18.99	-5.85	21.70	-2.24
1938 total		+13.37	39.99	#11.00	26.28	+1.44	23.06	-0.88
Normal								
annual pro			28.99		24.84		23.94	

No unusually high or low temperatures occurred in 1942. Weather conditions were favorable for early spring farm activities; however, cool wet weather in May retarded growth of vegetation, and the planting of corn and other late crops was seriously delayed. Favorable weather conditions in June permitted field work to progress rapidly. Small grain and grasses did well in June and July, but it was too cool for warm weather crops. Rust damage occurred with flax suffering the most. Heavy rains caused considerable damage and delayed haying and harvesting of small grain. Heavy rains, snow, and a hard freeze on September 24 damaged late corn and soybeans. Fortunately, ideal October weather lessened the effect of the September freeze.

Morris Fairmont Willmar Worthington Depart- Tempera- Depart-Tempera-Depart- Tempera-Depart-Temperaure from ture ure from ture ure from urc from ture ture normal normal normal normal (Degrees Fahrenheit) 19.2 **\$10.9** 47.7 18.8 **+6.0** 19.0 14.9 19.8 January: **↓** 5.9 ¥3.5 18.4 18.4 20.0 **+2.9** 42.6 19.8 ¥ 8.3 **16.9** 35.2 34.4 **44.9** 33.0 **+3.0** 35.0

Table 2. Monthly Temperatures, 1942

February March ... **1** 2.7 47.2 **46.5 4**5.4 50.8 51.4 44.7 April : 50.0 - 3.6 53.8 -2.3 52.3 -1.9 54.6 -1.9 55.6 May - 4.4 61.6 64.2 -1.4 40.3 67.6 66.0 0.0 June _ 2.2 68.4 -1.5 72.4 **#0.1** 69.5 -0.8 70.4 July - 0.9 +1.3 67.2 +1.2 69.6 -0.1 71.0 69.0 August - 5.2 54.2 56.6 -2.9 -3.8 55.6 -5.5 57.8 September 47.9 **+** 1.4 +2.1 50.6 +1.7 48.6 -0.3 48.1 October **4** 1.5. 32.0 42.7 31.0 +1.1 34.0 November 33.0 40.5

-4.2

16.1

4.6

December

14.8

- 4.4

-2.5

13.2

11.3

Table 3. Summary of Farm Inventories (Beginning of Year), 1942

rate o. Summary of farm	THIOHOUTTOO	(208+*******		
	Your	Average	19 most	19 least
en de la companya de La companya de la co	farm	of 95	profitable	profitable
tem s		farms	farms	farms
St		246	344	194
Size of farm (acres)				
Size of business (work units)*		541	773	3 66
Iorses	\$	\$ 322	\$ 401	\$ 251
roductive livestock (total)		4,595	9,715	2,667
Dairy and dual purpose cows		759	872	661
Other dairy & dual purpose cattl	е	446	540	326
Beef cattle (including feeders)	***************************************	1,779	5,486	607
Hogs		1,209	2,099	914
Sheep (including feeders)		254	540	58
Poultry (including turkeys)		148	178	101
rop, seed, and feed		3,425	5,501	2,521
fach. & equipment (total)		2,870	4,185	2,158
Power mach. (f. share)		1,181	1,654	981
Crop & gen. mach.		1,345	2,004	975
Livestock equip. & supplies	.,	344	527	202
Buildings, fences, etc.	 	6,379	8,538	5,156
Land		11,386	18,460	7,546
				
Total farm capital	\$	\$28,977	\$46,800	\$20,299

*Explanation of term: "Work units."

The total "work units" for any one farm is a measure of size of that farm business. It is the accomplishment of a farm worker in a ten-hour day working on crops and productive livestock at average efficiency.

The number of work units for each animal and each acre of crops used in this report are listed as follows:

				the second secon		
Item	Per	No. of work units		Item	Per	No. of work units
Dairy and dual		13.5		Cmall amain	0.000	.7
purpose cows	cow	10.0		Small grain Soybeans for grain	acre	•9
Other dairy & dual)		4.0		Sugar beets	11	3.0
purpose cattle)	animal	4.0		Sweet corn	#	2.5
Beef breeding herd)		4.0		Corn, husked	11	1.3
Sheep - farm flock)		1.6		Corn, hogged	ŧſ	•.8
Hens	100 hens		. ,	Corn, shredded	11	2.5
Feeder cattle)		.35		Corn silage	n ·	1.9
Feeder sheep	100 lbs.		•	Corn fodder	11	1.3
Hogs .)	produced		•	Alfalfa hay	11 .	1.0
Turkeys)	•	.7	. •	Soybean hay	11 .	1.4
Canning peas	acre	2.0	•	Other hay crops	tt - 1 -	•6

^{*}Animal unit represents one cow, one bull, one feeder steer or heifer, two head of other cattle, seven head of sheep, fourteen lambs, five hogs, ten pigs, 100 hens, or 1,400 lbs. turkeys produced.

Table 4. Summary of Fa	arm Invent	ories (End o	f Year), 1942	
	Your farm	Average of 95 farms	19 most profitable farms	19 least profitable farms
Items		TELMS	T CLI INS	T 577 1170
Horses	\$	\$ 321	\$ 465	\$ 267
Productive livestock (total)	-	5,563	11,166	3,288
Dairy & dual purpose cows		788	905	568
Other dairy & dual purpose cattle		486	528	300
Beef cattle (including feeders)		.1,753	4,984	809
Hogs		1,854	3,045	1,333
Sheep (including feeders)		484	1,474	126
Poultry (including turkeys)	***************************************	198	230	152
Crop, seeds, and feed		3,744	6,218	2,498
Mach. & equipment (total)		3.122	4.734	2,395
Power machinery (f. share)		1,248	1.842	1,082
Crop and gen. machinery		1,477	2,332	1,086
Livestock equipment & supplies		397	560	227
Buildings, fences, etc.		6,400	8,837	5,156
Land		11,386	18,460	7,546
Total farm capital	\$	\$30,536	\$49,880	\$21,150

Items	Your fari	Average of 95 farms	19 most profitable farms	19 least profitabl farms
No. of horses		3.7	4.7	3.3
No. of colts	• • • • • • • • • • • • • • • • • • • •	7	1.2	.5
No. of dairy & dual purpose co)WS	9.8	11.3	7.5
Head of other dairy & dual pur		10.6	12.0	7.6
Head of cattle kept in beef br		8.4	8.8	6.3
Net gain in weight - feeder ca		5.059	16,871	956
Net gain in weight - feeder sh	*	702	2,207	0
Litters of pigs		16.0	24.3	11.0
ound of hogs produced	. · · 	26,774	41,660	16,408
lead of sheep (2 lambs = 1 her	ad)	17.6	32.0	6.9
lo. of hens		188	220	126
Total no. of prod.livestock ar	nimal units	49.8	92.32	28.9
6 of total that are:				
Dairy and dual purpose cows.	Marian Salas M	24.2	18.6	26.4
Other dairy and, dual purpose	cattle	13.3	10.1	12.0
In beef breeding herd	**	13.2	7.7	16.9
Feeder cattle		10.4	17.9	8.4
Sheep - farm flock	** .	5.2	6 . 5	2.5
Shoop - feeders		1.2	2.6	0
Hogs		26.5	29.0	29.2
Turkeys	· · · · · · · · · · · · · · · · · · ·	1.5	4.2	0
Chickens		4.5	3.4	4.6

Table 6. Summary of Farm Earnings (Cash Statement), 1942

Table 6. Summary of Farm Es	arnings ((Cash Statem		
	Your	Average	19 most	19 least
	farm	of 95	-	profitable
Items		farms	farms	farms
FARM EXPENSES				
Horses bought	\$	\$ 32	\$ 81	\$ 27
Dairy and dual purpose cows bought		35	22	52
Other dairy & dual purpose cattle bought	·	39	21	25
Beef cattle bought (including feeders)		934	3,561	240
Hogs bought		254	448	276
Sheep bought (including feeders)		489	1,792	62 53
Poultry bought (including turkeys)		122	277	51 313
Misc. crop expenses		317	436	212 723
Feed bought Power mach. (farm share) (new)		1 ,4 01 278	2,897 504	723 336
Power mach. (farm share) (upkeep)		474	658	399
Custom work hired		172	161	167
Crop and general mach. (new)		326	701	205
Crop and general mach. (upkeep)		102	154	65
Livestock equipment (new)		98	102	60
Livestock equipment (upkeep)		46	91	32
Misc. livestock expense		109	173	76
Buildings and fencing (new)		311	618	266
Buildings and fencing (upkeep)		135	151	96
Hired labor		348	622	198
Taxes		258	388	205
Insurance		35	43	26
General farm		41	46	30
(1) Total farm purchases		\$6,356	\$13,947	\$3,829
(2) Decrease in farm capital		φο ,οο ο	φ±0,5±1	Ψυ, σου .
(3) Board furnished hired labor		129	211	94 ·
(4) Interest on farm capital	***************************************	1.488	2,417	1,036
(5) Unpaid family labor		381	431	272
(6) Total farm expenses (Sum of (1)to(5)		\$8.354	\$17,006	\$5,231
FARM RECEIPTS		ΨΟ,00-1	Ψ17,000	φυ,νοι
Horses		\$ 31	\$ 18	\$ 20
Dairy and dual purpose cows	***************************************	263	288	υ 20 324
Dairy products		859	1,119	670
Other dairy and dual purpose cattle		271	253	263
Beef cattle (including feeders)		2,260	7,727	467
Hogs 133		3,410	5,403	2,094
Sheep and wool (including feeders)		537	1,556	53
Poultry (including turkeys)		594	1,704	87
Eggs		532	647	344
Corn		550	1,161	455
Small grain		828	877	623
Other crops		294	173	106
Power machinery sold		100	191	146
Crop and gen. mach. sold		65	147	18
Misc.		167	324	73
Income from work off the farm		131	173	43
Agricultural adjustment payments		443	629	359
(7) Total farm sales		\$11,335	\$22,390	\$6,145
(8) Increase in farm capital		1,559	3,080	φο ,1 ±3 851
(9) Family living from the farm		575	681	463
(10) Total farm receipts (7) + (8) + (9)		\$13,469	\$26,151	\$7,459
(6) Total farm expenses		8,354	17,006	5,231
(11) Operator's labor earnings (10) - (6)		5,115	9,145	
· · · · · · · · · · · · · · · · · · ·		DITTO	3,140	2,228

Table 7. Summary of Farm Earnin	Your farm	Average of 95 farms	19 most profitable farms	19 least profitable farms
PRINCES AND NEW DECREASES			20.53	
PENSES AND NET DECREASES	k	\$ 735	\$ 902	\$ 637
Total power	<u> </u>	131	177	93
Horses		293	360	284
Tractor		49	89	29
Truck		149	147	123
Auto (farm share)		1	2	1
Gas engine (farm share)		41	55	40
Elec. plant or current (farm share)		71	72	6 7
Hired power		251	340	196
Crop and general machinery		85	153	52
Livestock equipment			343	263
Buildings, fencing and tiling	· / -	312		74
Misc. productive livestock expense		108	170	
Labor	-	899	1,304	598
Real estate taxes		210	309	169
Personal property tax		48	79	36
Insurance		35	43	26
General farm		41	46	30
Interest on farm capital		1,488	2,417	1,036
(1) Total expenses & net decreases		\$4,212	\$6,106	\$3,117
ETURNS AND NET INCREASES		15.4.55		,
All productive livestock		\$8,163	\$14,452	\$4,446
Dairy and dual purpose cows		1,063	1,252	844
Other dairy & dual purpose cattle		516	558	293
Beef breeding herd		415	590	340
Feeder cattle		900	3,14 4	131
Hogs		3,871	5,995	2,299
Sheep - farm flock		153	224	59
Sheep - feeders		125	475	.0
Turkeys		372	1,336	0
Chickens		748	878	480
Crops, seed and feed		424	-205	367
Income from work off the farm		131	173	` 43
Agricultural conservation payments		443	629	359
Miscellaneous		166	202	130
(2) Total returns & net increases		\$9,327	\$15,251	\$5,345
(1): Total expenses & net decreases		4,212	6,106	3,117
(3) Oper. labor earnings (2) minus (1)	•	5,115	9,145	2,228

⁽A) Cash receipts and expenses are adjusted for changes in inventory for each enterprise and for each item of expense in order to show total receipts and net increases, and total expenses and net decreases. The operator's labor earnings are the same as those on page 6.

ANALYSIS OF THE REASONS FOR DIFFERENCES IN OPERATOR'S EARNINGS

The operator's labor earnings varied widely among the farmers included in this study. The average labor earnings of those farmers ranking in the upper 20 per cent in the range according to earnings was \$9,145 and of those in the lower 20 per cent was \$2,228. This is a range of \$6,917 between the average earnings of these two groups. Some of the causes for these differences in earnings may be beyond the control of the farmer. However, all of these farmers could make some changes in their farming operations which would increase earnings. A farmer can secure some ideas as to changes that could profitably be made on his farm by studying the facts about his business as presented in this report and comparing his accomplishments with other farmers following the same general type of farming. The more important management factors affecting earnings and their relationships with earnings are presented in the following tables.

Table 8. Relation of Crop Yields to Farm Earnings Average Number Per cent crop yields were of operator's ofthe average for all 95 farms labor earnings farms Average Group \$3,753 25 Below 90 77 5,182 49 90 - 113102 6.582 21 124 114 and above

High production per acre, up to certain limits, tends to lower the cost per bushel of grain or per ton of hay. Any possible method of management that will increase crop yields and therefore lower cost of production more than the extra expense incurred in securing the higher yields should be given consideration.

	Table 9. Rela	tion of	Choice of Crops to Farm	Earnings
Per cent of tilin high return		4	Number of	Average operator's
Group	Average		farms	labor earnings
Below 35.0	31.6		24	\$4, 765
35.0 - 44.9	39.9		50	5,228
45.0 and above	49.0		21	5,248

*Crops are marked on page 14 as (A), (B), (C), and (D). All of acros in (A) crops, one half of acres in (B) crops, and one fourth of acres in (C) crops are used in calculating per cent of tillable land in high return crops.

Farmers' earnings are affected by the choice of crops as well as by the yields of crops. As a rule, on these farms, such crops as alfalfa, clover, canning crops, sugar beets, corn, and flax bring a higher net return per acre than other crops usually grown. Additions can be made to earnings by putting as high a percentage as possible of the tillable land into these higher return crops.

Table 10. Relation of Returns from Productive Livestock to Farm Earnings

Index of gros	ss returns ive livestock* Average	Number of farms	Average operator's labor earnings
Below 89	78	24	\$4,370
89 - 109	9 8	46	5,098
110 and abov	· ·	25	5,863

^{*}Feed records were not kept on most of these farms. The index represents gross returns and is weighted by the number of animal units of each class of livestock.

The majority of these farms are livestock farms. High gross returns from livestock are accompanied by high farm income. A large proportion of the crops raised are fed on the farm and some additional feed is purchased. Feed is the major item of cost in livestock production and livestock constitute an important source of income on these farms. There are a number of reasons for differences among farms in livestock returns. High productivity per animal and economy in the use of feed and labor are important. Other factors of considerable importance are kind of feed used, quality of pastures, balance of ration, degree of sanitation, and kind of shelter and equipment.

Table 11. Relation of Amount of Productive Livestock to Farm Earnings Averago Number Productive livestock operator's units per 100 acres* of labor earnings farms Average Group \$3,623 20 10.6 Below 16.0 Sent to the sent 4.894 16.0 - 26.920.7 54 7,107 21 27.0 and above

The information in Table 11 shows the relationship of amount of livestock maintained on these farms to operator's labor earnings. On some farms the returns from livestock are so low that they do not cover labor, feed and other costs. Such livestock is unprofitable, especially if there is more than enough to utilize what would otherwise be waste feed. If the livestock is yielding a net return, an increased amount of livestock adds to size of business and the opportunity to increase the farm earnings. Livestock produces manure and aids in keeping up the fertility of the land, and utilizes waste products on the farm. Livestock also helps to provide productive employment throughout the year. Any method that aids in utilizing the available resources to full and efficient capacity should add to the farm income.

Table	12. Relation	of Size of Business (Work Units) to	Farm Earnings
Number of wor		Number of farms	Average operator, s labor earnings
	,26年319	to the control of the second of the control of the	\$3,400
375 - 649	513	44	4,731
650 and above	822	25	7,575

^{*}Acres in timber not pastured, roads, waste and farmstead were not included.

Average farm earnings tend to increase with an increase in size of business. For farmers operating their farms at a loss, the larger the volume of business, the larger will be the loss, but a farmer who is making a profit could make a larger profit if he increased his size of business, providing that is so doing he does not lower materially the efficiency in some one or more important branches of his business. Those farmers who have large businesses usually have more flexibility of their organization than does the man with a small business, and can utilize more efficiently and to better advantage available labor, power, machinery and buildings. The size of the farm business may be increased by farming more land, by keeping more livestock, or by keeping livestock or growing crops of a more intensive type.

Table 13.	Relation of	Amount of Work Accomplished per	Worker to Farm Earnings
Work units per		Number of	Average operator's
Group	Average	farms	labor earnings
Below 220	189	21	\$3,629
220 - 309	265	53	4,921
310 and above	364	21	7,093

More units of work accomplished per worker reduces the labor charge per unit of business. Higher labor accomplishment can be secured in several ways. In the first place, the business must be large enough so that there will be at least sufficient work available for the family labor. The farm should be so organized that the labor requirements are well distributed throughout the year. Handling pastures in such a way that as large a proportion as possible of the year's feed for livestock may be obtained from them helps to reduce labor requirements. Proper planning of the farm work and economical use of labor-saving machinery help to increase the work accomplished per worker.

Table 14. Relat	ion of Power, Machinery	, Egpt., & Bldg., Expense	e to Farm Earnings*
Expense per work	unit	Number of	Average operator's
Group	Average	farms	labor earnings
\$3.30 and above	\$4.22	22	\$4,020
\$2.00 - \$3.29	2.56	45	4,857
Below \$2.00	1.73	28	6,391

^{*}Includes building, fencing, all crop machinery and livestock equipment, horse feed, and miscellaneous horse expense.

The expense factor does not show as high relationship with earnings when prices are high as when they are low. Some farms are under-equipped. On a few farms, excessive expenses constitute the main factor causing earnings to be very low.

Some of the cash expenses can be kept down by careful management. Oftentimes necessary repairs and improvements can be made by using the available farm labor rather than by hiring extra help. Repairs and overhauling should be done before spring work begins insofar as possible; or on rainy days or in other spare time during the summer. Reducing the number of horses to the minimum required for efficient operation of the farm helps reduce the power expense. In some cases, farmers can offset some or all of the power and machinery expense by using their equipment for outside work.

EFFECT OF WELL-BALANCED EFFICIENCY ON FARM PROFITS

It is quite evident from this report that few farmers have a monopoly on efficiency. Quite often farm operators show efficient management in one part of the farm business, which is offset by poor results in other phases. These farmers get medium returns while those who fall down all along the line get the lowest returns, and on the other hand those few who can manage to attain high efficiency in all parts of their organization receive returns well above the average. This is well illustrated in Table 15.

Table 15. Relation of Operator's Labor Earnings to the Number of Factors in which the Farmer is Above Average

No. of factors in which farm excels	No. of farms	Your farm	The length of the shaded lines are in proportion to the average operator's labor earnings	Average operator's labor earnings
None	3	***	xxxxxxxxxxx	\$2,841
One	, 6,	***************************************	**************************************	3,199
Two	22		XXXXXXXXXXXXXX	3,508
Three	18		XXXXXXXXXXXXXXXXXXX	5,053
Four	26		XXXXXXXXXXXXXXXXXXX	5,031
Five	8		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7,265
Six or seven	12		**************************************	x 8,434
4. Tu		, as		

The array in Table 15 indicates that it will be worth-while for each cooperator to study carefully his ranking on pages 12 and 13, and learn his standing in respect to each of the above factors and the elements of strength and weakness in his farm business.

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Table 16. Measures of Farm Organization and Management Efficiency, 1942 19 most 19 least Measures used profit-Average profitin chart Your of 95 able able on page 13 farm farms farms farms Operator's labor earnings \$2,228 \$5,115 \$9,145 (1) Crop yields* 100 110 90 (2) % of tillable land in high return crops** 39.8 38.3 38.2 (3) Gross returns from prod. livestock*** 100 105 93 (4) Prod. livestock units per 100 acres**** 21.8 27.3 16.9 (5) Size of business - work units 541 773 366 (6) Work units per worker 270 314 226 (7) Power, mach., equip. & bldg.exp.per work unit \$ \$2.70 \$2.25 \$3,25 Measures and items related to some of the above meansures: (3) Index of gross returns from -Dairy cattle 100 101 94 Dual purpose cattle 100 84 117 Beef cattle - breeding herd 100 153 91 Beef cattle - feeders 100 125 82 · Hogs 100 100 97 Sheep - farm flock 100 79 74 Sheep - feeders 100 Turkeys 100 Chickens 100 96 90 (5) Work units on crops 183 260 140 Work units on productive livestock 325 470 215 Other work units 33 43 11 (6) Total number of workers 2.0 2.5 1.7 Number of family workers 1.5 1.6 1.4 Number of hired workers .5 •9 .3 (7) Power expense per work unit \$1.44 \$1.12 \$1.81 Crop machinery expense per work unit .48 .40 • 56 Livestock equipment expense per work unit .20 .12 .15 Buildings and fencing expense per work unit .63 •53 .76

^{*}Given as a percentage of the average

^{**}Crops are marked on page 14 as (A), (B), (C) and (D). All of acres in (A) crops, one half of acres in (B) crops, and one fourth of acres in (C) crops are used in calculating per cent of tillable land in high return crops.

^{***}An index weighted by the animal units of livestock.

^{****}Acres in timber not pastured, roads, waste and farmstead were not included.

Thermometer Chart

Using your figures from page 12, locate your standing with respect to the various measures of farm organization and management efficiency. The averages for the 95 farms included in this summary are located between the dotted lines across the center of this page.

Oper.				Return	Pr. 1.s.		Work	Pow., mach.,
labor			High	from pro-	units	,	units	eq., & bldg.
earn-		Crop	return	ductive	per	Work	per	exp. per work unit
ings		yields	crops	livestock	100 A.	units	worker	work unit
\$9000		140=	52.0	140	38.0	940	390	\$1.50
8500		135	50.5	135	36.0	890	375	1.65
8000		130	49.0	130=	34.0	840	360	1.80
7500		125	47.5	125	32.0	790	345	1.95
7000		120	46.0	120 =	30.0	740	330	2.10
6500	=	115	44.5	115	28.0	690	315	2.25
6000	 -	110	43.0	110	26.0	640	300	2.40
5500	111	105	41.5	105	24.0	590	285	2.55
5115 5000		100	40.0	100	22.0	540	270	2.70
4500		95	38.5	95	20.0	490	255	2.85
4000		90=	37.0	90	18.0	440	240	3.00
3500		85	35.5	85	16.0	390	225	3.15
3000		80=	34.0	80 =	14.0	340 =	210	3.30
2500		75	32.5	75	12.0	290	195	3.45
2000		8	31.0	70 =	10.0	240	180	3.60
1500		65	29.5	65	8.0	190	165	3.75
.(ا ج _ا ب							

Table 17. Distribution of Acres in Farm, 1942 Crop: (A), (B), (C), and (D), refer Your 19 most 19 least No. Average to ranking used in calculating % of of growing farm profitprofittillable land in High Return Crops 95. this able able (see page 12) crop farms farms farms Canning peas 4 .4 .4 0 Flax (B) 82 29.2 25.3 35.6 Barley (C) 13.3 18.6 56 9.7 Barley and oats (c) 11 21.0 1.9 6.6 Wheat (C) 36 6.1 2.8 8.9 Oats 79 (D) 27.9 39.1 17.6 Cats and wheat (D) 5 1.5 1.6 1.6 Rye (D) 4 .9 .8 •5 Soybeans for grain 42 7.3 14.9 6.1 Total Small Grain and Peas 95 93.2 125.9 80.5 Sugar beets, hybrid seed corn. (A) potatoes and truck crops 31 1.3 .3 .5 Sweet corn 5 (B) .4 0 •5 Corn, grain (B) 93 54.6 94.5 34.0 Corn silage (C) 56 6.3 10.1 4.3 Corn fodder (D) 12 .7 .7 .6 Total cultivated crops 95 63.3 105.5 40.0 Alfalfa hay (A) 90 21.1 25.7 16.5 Sweet clover hay (B) 7 •4 .8 1.2 Soybean hay (C) 5 .6 0 .6 Mixed legumes & non-legumes (C) 23 2.7 2.5 4.1 Legumes for seed 2 (C) •6 .1 0 Timothy and/or brome (D) 12 •6 .8 •3 Other annual hav (D) •9 4 .2 .1 Total tillable land in hay 94 25,9 30.5 23.4 Alfalfa pasture 33 (Λ) 1.7 2.5 1.5 Sweet clover pasture (B) 39 7.8 10.9 5.1 Mixture inc. alf., sw.clo., brome (B) 36 9.4 18.4 6.6 Other legumes and mixtures (C) 24 3.7 5.8 2.9 Sudan grass or rape pasture (C) 11 .8 •5 1.0 Other tillable pasture (D) 26 3.3 5.3 4.5 Total tillable land in pasture 26.7 87 43.4 21.6 Tillable land not cropped 22 2.2 3.3 5.4 Total tillable land 212.4 307.5 170.9 Phalaris hay (non-tillable) .2 4 .1 Wild hay (non-tillable) 32 4.7 5.5 .8 Non-tillable pasture 47 9.7 10.6 4.2 Timber (not pastured) 10 .7 .2 0 Roads and waste 10.2 13.0 6.5 Farmstead ... 11.5 Total acres in farm 343.6 246.2 193.9 % land tillable 86.2 89.6 87.6 % tillable land in high return crops 39.8 38.3 38.2

Pahla	18.	-	Crop	Yields	per	Acre,	1942

Table 18. Crop	Your farm	Average 95 farms	19 most profitable farms	19 least profitable farms
Canning peas, value above seed cost \$Flax, bu. Barley, bu. Barley and oats, bu. Wheat, bu.		\$48.70 11.0 28.1 44.0 19.2	\$ - 12.3 29.9 47.3 22.3	\$ - 10.1 25.1 - 18.4
Oats, bu. Oats and wheat, bu. Rye, bu. Soybeans for grain, bu. Sweet corn, tons Corn, grain, bu.		49.7 39.4 13.3 13.3 3.9 56.6 10.0	53.1 - 14.5 - 66.9 10.1	40.0 - 10.3 - 49.5 9.3
Corn and cane silage, tons Corn and cane fodder, tons Alfalfa hay, tons Sweet clover hay, tons Soybean hay, tons Mixed legume & non-legume hay, tons		2.8 2.0 1.4 2.1	3.1	2.6 - - 2.0
Mixed legume & non-legume hay, tons Legumes for seed, lbs. Timothy and/or brome hay, tons Other annual hay, tons Phalaris hay on non-tillable land, tons Wild hay, tons		211.8 1.5 .4 1.4	2.1 - - 1.4	-

•	Table 19.	Power	and	Machinery	Expense,	1942	
Item	,			Your farm	Average of 95 farms	19 most profitable farms	19 least profitable farms
Crop acres per fai	rm				187.3	262.7	149.5
Tractor and horse Crop and general r					\$2.34 1.41	\$2.00 1.29	\$2.56 1.41
Feed cost per hors Number of work hos Number of colts	rses			*	\$31.17 3.9 .7	\$31.24 4.7 1.2	\$27.81 3.3 .5

^{*}Two colts equal one horse.

Table 20. Returns from Productive Livestock, 1942

Table 20. Returns from				
	Your	_		19 lowes
	farm	of 95	in livestock	
tems		farms	returns	returns
DAIRY CATTLE-44 farms		4333 70	6346 05	ቀ ዋን ማግ
Gross returns per dairy cow	φ	\$111.79	\$146.05	\$72.37
Pounds of butterfat per cow		225	271	154
No. of head of cows		13.4	15.3	12.0
Gross ret. per head other dairy cattle	\$	\$ 47.67	\$ 60.70	\$35.22
Gross ret.per ani.unit all dairy cattle	\$	\$100.80	\$129.68	\$68.30
No. of ani. units all dairy cattle		20.4	25.0	18.3
DUAL PURPOSE CATTLE-31 farms				
Gross ret. per dual purpose cow	\$	\$ 95.97	\$116.0 6	\$83.52
Pounds of butterfat per cow		186	230	164
No. of head of cows		10.8	8.4	12.8
Gross ret. per head other du.pur.cattle	\$	\$ 49.90	\$ 67.97	\$35.20
Gross ret.per ani.unit all du.pur.cattle	, s	\$ 93.67	\$117.80	\$78.64
No. of animal units all dual pur. cattle		17.7	13.9	20.3
Price rec'd.per lb. butterfat sold as	·		10,0	20,0
		47 A	A77 E	A 77 77
Manufacturing cream (cents)		43.4	43.5	43.3
Retail milk or cream (cents)		62.8		-
EEF-BREEDING HERD-29 farms				
Gross returns per animal unit	\$	\$ 72,29	••	\$38.17
No. beef cows and bulls per herd		11.0	•	20.9
No. animal units per herd		19.3	, · -	32.6
FEEDER CATTLE-37 farms		•		
Gross ret. per cwt. produced	\$	\$ 16.83	\$ 22.61	\$13.01
Lbs. of cattle produced	' 	11,335	32,299	6,728
Price rec'd. per cwt. sold	\$	\$ 11.78	\$ 12.56	\$11.44
Price paid per cwt. bought in 1942	Š	\$ 12.17	\$ 12.74	\$14.50
HEEP - FARM FLOCK-28 farms	Ψ	Ψ 2~•2;	Ψ 	Ψ.1.
Gross ret. per head*	\$	\$ 10.22	\$ 15.62	\$ 7.94
No. of head of sheep	Ψ	59.2		94.7
			38.6	
No. of ewes kept for lambing		37.4	26.8	60.0
% lamb crop	 	102	114	92
% death loss		7.8	6.3	11.8
Lbs. wool per sheep sheared		8.6	9.6	, 7.5
Price rec'd. per lb. wool sold (cents)		40.4	41.9	. 38 .8
Price rec'd. per cwt. lambs sold	. \$	\$ 12.92	\$ 13.07	\$11.05
HEEP-FEEDERS6 farms		·_ ·	se of the second	
Gross ret. per cwt. produced	\$	\$ 24.70		-
Lbs. of sheep produced		11,031	egang • •dhe	5 ¹⁷ »
Price rec'd. per cwt. sold	\$	\$ 12.97	***	7° '
Price paid per cwt. bought in 1942	\$	\$ 13.16	-	_
OGS94 farms	· · · · · · · · · · · · · · · · · · ·			2.11
Gross ret. per cwt. produced	\$	\$ 14.37	\$ 15.20	\$13.87
Lbs. hogs produced	Ψ	27,059	33,871	
Total no. litters raised				21,048
		16.1	21.0	13.4
Pigs per litter	<u> </u>	6.4	6.6	5.9
Price rec'd. per cwt. sold	\$	\$ 13.10	\$ 13.92	\$12.70
HICKENS81 farms				
Gross ret. per hen	\$	\$ 4.22	\$ 4.30	\$ 3.63
No. of hens		216	216	234
Eggs laid per hen		131	132	118
Price rec'd. per doz. eggs sold (cents)		27.7	26.5	27.5
URKEYS6 farms				
Gross ret. per cwt. produced	\$	\$ 25.84	_	-
Lbs. turkeys produced	· 	22,103	_	-
Price rec'd per 1b. sold (cents)		30.2	_	
DUAG (UULUU)		~~~	_	_

Table 21. Farm Produce Used in House and House Rental, 1942

Table 2	l. ra	rm. Produce	, 0960 11	I Donne	and no	se Rental,		
		Quai	ntities				lues	
	Your	Average	19 most					19 least
	farm	of 95	profit-	profit.	- farm	of 95	-	profit-
		farms	able	able		farms	able	able
Items			farms	farms	•		farms	farms
No. of adult) Family		3.3	3.6	2.9	1.	`		•
		.5	.7	.3	;			
equivalents)Other*		1141 qts	1	987	, \$	\$45.34	\$58.35	\$42.02
Whole milk				0	Ψ	1.29	1.19	1 0
Skim milk		273 qts				41.62	48.05	25.78
Cream		298 pts		183		3.78	4.15	5.24
Farm made butter		91bs		12				29.91
Eggs	,	168 do z		124	·	42.54		15.96
Cattle		362 1 bs		174	:	36.52	57.26	
Hogs		596 l bs	. 747	501		75.33	93.94	60.99
Sheep		1 1b.	0	0		.09	0	0
Poultry		142 lbs	. 172	111		23.59	29.13	18.93
Potatoes		23 bu.	22	18	4	20.92	21.33	16.99
Vegetables & fruits			:			56.02	54.92	41.89
		•			, · · · · · · · · · · · · · · · · · · ·	16.58		12.42
Farm fuel					 ,	211.39		192.67
Rental val. of house	3					211,00	201101	
•	,		į ·		374 #	erre of	\$681.04	\$462 80
Total					,	- \$575.01	àdor•∩æ	\$40°.00
		• •						
	Tabl	e 22. Ho	uschold	and Per	sonal E	xpenses fo	r	;
Those T	Tarms W	hich Kent	Complet	e Accou	nts of !	These Expe	nses, 194	2
THOSE I	CALLED I	mion mopu	- OOMPIE		Your	Average	8 most	8 least
					farm	_	profit-	profit-
	•				T CAT III'	0.1 1~	-	
· 4. :				,	•	forme	อไไอ	ahle
				•	•	farms	able	able farms
Items :				·	• · · · · · · · · · · · · · · · · · · ·	farms	able farms	able farms
				, ,	• •		farms	farms
Items Number of persons -	family	,		,		farms		
Number of persons -			<u> </u>			4.1	farms 3.9	farms 3.3
Number of persons -							3.9 3.0	3.3 2.8
Number of persons -	(Family	Ž.				4.1	farms 3.9	farms 3.3
Number of persons -	(Family	Ž.				4.1 3.3 .6	3.9 3.0 1.1	3.3 2.8 .3
Number of persons - Number of persons, (adult equivalent ((Family (Other*	Ž.			\$	4.1	3.9 3.0 1.1 \$ 390	3.3 2.8 .3 \$ 251
Number of persons - Number of persons, (adult equivalent (Food and meals bough	(Family (Other*	Ž.			\$	4.1 3.3 .6	3.9 3.0 1.1	3.3 2.8 .3
Number of persons - Number of persons, (adult equivalent (Food and meals bough Operating and suppli	(Family (Other* ht ies	<i>T.</i>			\$	4.1 3.3 .6 \$ 356 138	3.9 3.0 1.1 \$ 390 147	3.3 2.8 .3 \$ 251 111
Number of persons - Number of persons, (adult equivalent (Food and meals bough Operating and supplications and clothing	(Family (Other* ht ies ng mate	rials			\$	4.1 3.3 .6 \$ 356 138 208	3.9 3.0 1.1 \$ 390 147 262	3.3 2.8 .3 \$ 251 111 128
Number of persons - Number of persons, (adult equivalent (Food and meals bough Operating and suppli Clothing and clothin Personal care, personal	(Family (Other* het ies ng mate onal sp	rials			\$	4.1 3.3 .6 \$ 356 138 208 64	3.9 3.0 1.1 \$ 390 147 262 60	3.3 2.8 .3 \$ 251 111 128 32
Number of persons - Number of persons, (adult equivalent (Food and meals bough Operating and supplications and clothing Personal care, per	(Family Other that ies mate on al spent)	orials			\$	4.1 3.3 .6 \$ 356 138 208 64 156	3.9 3.0 1.1 \$ 390 147 262 60 203	3.3 2.8 .3 \$ 251 111 128 32 136
Number of persons - Number of persons, (adult equivalent (Food and meals bough Operating and suppli Clothing and clothin Personal care, personal	(Family Other that ies mate on al spent)	orials	nt		\$	4.1 3.3 .6 \$ 356 138 208 64 156 148	3.9 3.0 1.1 \$ 390 147 262 60 203 222	3.3 2.8 .3 \$ 251 111 128 32 136 90
Number of persons - Number of persons, (adult equivalent (Food and meals bough Operating and supplications and clothing Personal care, per	(Family Other that ies mate on al spinment on and	orials conding developme	nt		\$	4.1 3.3 .6 \$ 356 138 208 64 156 148 147	3.9 3.0 1.1 \$ 390 147 262 60 203 222 149	3.3 2.8 .3 \$ 251 111 128 32 136 90 159
Number of persons - Number of persons, (adult equivalent (Food and meals bough Operating and suppli Clothing and clothin Personal care, perso Furnishings and equi Education, recreation Medical care and her	(Family Other that ies mate on al spend alth in	orials conding developmensurance	nt		\$	4.1 3.3 .6 \$ 356 138 208 64 156 148 147 115	\$ 3.9 \$ 3.0 1.1 \$ 390 147 262 60 203 222 149 164	3.3 2.8 .3 \$ 251 111 128 32 136 90 159 64
Number of persons - Number of persons, (adult equivalent (Food and meals bough Operating and suppli Clothing and clothin Personal care, perso Furnishings and equi Education, recreation Medical care and head Church, welfare, git	(Family (Other* ies mate on al spipment on and alth infts, and	orials conding developmensurance ad taxes	nt		\$	4.1 3.3 .6 \$ 356 138 208 64 156 148 147	3.9 3.0 1.1 \$ 390 147 262 60 203 222 149	3.3 2.8 3.3 \$ 251 111 128 32 136 90 159 64 64
Number of persons - Number of persons, (adult equivalent (Food and meals bough Operating and suppli Clothing and clothin Personal care, perso Furnishings and equi Education, recreation Medical care and head Church, welfare, git Personal share of an	(Family (Other the state of the	orials conding developmensurance and taxes pense			\$	4.1 3.3 .6 \$ 356 138 208 64 156 148 147 115	\$ 3.9 \$ 3.0 1.1 \$ 390 147 262 60 203 222 149 164	3.3 2.8 .3 \$ 251 111 128 32 136 90 159 64
Number of persons - Number of persons, (adult equivalent (Food and meals bough Operating and suppli Clothing and clothin Personal care, perso Furnishings and equi Education, recreation Medical care and head Church, welfare, git Personal share of and Household share of	(Family (Other) of the second spin and alth in fits, and expelled.	development of taxes pense & gas eng.	exp.	ors bot	\$	4.1 3.3 .6 \$ 356 138 208 64 156 148 147 115 74 29	\$ 3.9 \$ 3.0 1.1 \$ 390 147 262 60 203 222 149 164 104	3.3 2.8 3.3 \$ 251 111 128 32 136 90 159 64 64
Number of persons - Number of persons, (adult equivalent (Food and meals bough Operating and suppli Clothing and clothin Personal care, perso Furnishings and equi Education, recreation Medical care and headical care and headical care and headical care of an Household share of an Hou	(Family (Other) of the second spin and alth in fits, and expelled.	developmensurance ad taxes pense & gas eng.	exp.	ors bot.	\$	4.1 3.3 .6 \$ 356 138 208 64 156 148 147 115 .74 29	\$ 3.9 3.0 1.1 \$ 390 147 262 60 203 222 149 164 104 28	3.3 2.8 .3 \$ 251 111 128 32 136 90 159 64 64 25 68
Number of persons - Number of persons, (adult equivalent (Food and meals bough Operating and suppli Clothing and clothin Personal care, perso Furnishings and equi Education, recreation Medical care and head Church, welfare, git Personal share of and Household share of	(Family (Other) of the second spin and alth in fits, and expelled.	developmensurance ad taxes pense & gas eng.	exp.	ors bot.	\$	4.1 3.3 .6 \$ 356 138 208 64 156 148 147 115 74 29 26 504	\$ 3.9 3.0 1.1 \$ 390 147 262 60 203 222 149 164 104 28	3.3 2.8 .3 \$ 251 111 128 32 136 90 159 64 64 25
Number of persons - Number of persons, (adult equivalent (Food and meals bough Operating and suppli Clothing and clothin Personal care, perso Furnishings and equi Education, recreation Medical care and headical care and headical care and headical care of an Household share of an Hou	(Family (Other the state of the	development taxes pense & gas eng. to, gas enginvestment	exp. . & moto	ors bot	\$	4.1 3.3 .6 \$ 356 138 208 64 156 148 147 115 .74 29	\$ 3.9 3.0 1.1 \$ 390 147 262 60 203 222 149 164 104 28	3.3 2.8 .3 \$ 251 111 128 32 136 90 159 64 64 25 68 606
Number of persons - Number of persons, (adult equivalent (Food and meals bough Operating and suppli Clothing and clothin Personal care, perso Furnishings and equi Education, recreation Medical care and headical care and headical care and headical care of an Household share of an Household share of an Life insurance and of the control of the contr	(Family (Other) of the second spin and spin and spin and spin and spin and spin alth in fts, and spin alth spin and spin	development taxes pense & gas enginvestment ash	exp. . & moto	or's bot	\$	4.1 3.3 .6 \$ 356 138 208 64 156 148 147 115 .74 .29 .26 .504 \$1,965	\$ 3.9 3.0 1.1 \$ 390 147 262 60 203 222 149 164 104 28 850 \$2,579	3.3 2.8 .3 \$ 251 111 128 .32 136 90 159 64 64 25 68 606 \$1,734
Number of persons - Number of persons, (adult equivalent (Food and meals bough Operating and suppli Clothing and clothin Personal care, perso Furnishings and equi Education, recreation Medical care and headical share of and Household share of and Household share and of the insurance and of the control of	(Family (Other) of the second specific	development of taxes pense to gas enginvestment all cash of	exp. . & moto	or's bot	\$	4.1 3.3 .6 \$ 356 138 208 64 156 148 147 115 74 29 26 504 \$1,965	\$ 3.9 3.0 1.1 \$ 390 147 262 60 203 222 149 164 104 28 - 850 \$2,579	3.3 2.8 3.3 \$ 251 111 128 32 136 90 159 64 64 25 68 606 \$1,734 217
Number of persons - Number of persons, (adult equivalent (Food and meals bough Operating and supplication and clothing equivalent (Personal care, personal care, personal care and head care and head church, welfare, gith Personal share of and Household share of and Household share of and the control of the control	(Family (Other) of the second specific	development of taxes pense to gas enginvestment all cash of	exp. . & moto	ors bot.	\$	4.1 3.3 .6 \$ 356 138 208 64 156 148 147 115 74 29 26 504 \$1,965	3.9 3.0 1.1 \$ 390 147 262 60 203 222 149 164 104 28 850 \$2,579	3.3 2.8 3.3 \$ 251 111 128 32 136 90 159 64 64 25 68 606 \$1,734 217 14
Number of persons - Number of persons, (adult equivalent (Food and meals bough Operating and suppli Clothing and clothin Personal care, perso Furnishings and equi Education, recreation Medical care and headical share of and Household share of and Household share and of the insurance and of the control of	(Family (Other) of the second specific	development of taxes pense to gas enginvestment all cash of	exp. . & moto	ors bot.	\$	4.1 3.3 .6 \$ 356 138 208 64 156 148 147 115 74 29 26 504 \$1,965	\$ 3.9 3.0 1.1 \$ 390 147 262 60 203 222 149 164 104 28 - 850 \$2,579	3.3 2.8 3.3 \$ 251 111 128 32 136 90 159 64 64 25 68 606 \$1,734 217
Number of persons - Number of persons, (adult equivalent () Food and meals bough Operating and supplication and clothing personal care, personal care, personal care and head church, welfare, gith Personal share of an Household share of the H.H. & pers.shr.of the insurance and control total household and food furnished by the House rental	(Family (Other) of the series of the farment of the series	development axes pense & gas enginvestment ash emm	exp & moto	ors bot.	\$	4.1 3.3 .6 \$ 356 138 208 64 156 148 147 115 74 29 26 504 \$1,965 340 16 186	3.9 3.0 1.1 \$ 390 147 262 60 203 222 149 164 104 28 850 \$2,579 412 26 146	3.3 2.8 3.3 \$ 251 111 128 32 136 90 159 64 64 25 68 606 \$1,734 217 14 184
Number of persons - Number of persons, (adult equivalent (Food and meals bough Operating and supplication and clothing equivalent (Personal care, personal care, personal care and head care and head church, welfare, gith Personal share of and Household share of and Household share of and the control of the control	(Family (Other) of the series of the farment of the series	development axes pense & gas enginvestment ash emm	exp & moto	ors bot.	\$	4.1 3.3 .6 \$ 356 138 208 64 156 148 147 115 74 29 26 504 \$1,965	3.9 3.0 1.1 \$ 390 147 262 60 203 222 149 164 104 28 850 \$2,579	3.3 2.8 3.3 \$ 251 111 128 32 136 90 159 64 64 25 68 606 \$1,734 217 14 184

^{*}Hired help or others boarded.

}		18	
t	Yellow Medicine	1,005 1,005 1,86 1,009 1,000 1	924 195 2,684 111 2,199 1,348 1,348 5,158
	Watonwan	294 394 110 290 110 290 181 181 182 1888 1888 1888 1888 1888 1	1,976 692 7,666 109 561 1,453 492 1,150 1,150 0,254 4,948
/ተ2	Stevens & Swift	\$ 785 253 86 86 1,339 193 281 193 276 276 593 593	1,316 1,913 1,913 1,930 1,330 386 420 2,102 5,915 3,638 3,638
ounties, 10	Mobles &	\$3,5% 2,075 2,075 3,590 1,346 1,35 1	8,287 4,197 1,789 2,889 1,915 593 593 593 559 652 652 652 652 652 652 652 652 653 653 653 653
raged by C	Martin	404 178 178 185 1.383 1.383 1.41 181 181 181 181 181 181 181 181 181 1	1,928 1,250 1,250 1,818 1,818 1,685 1,685 1,685 1,590 6,397
Gernines - Ave	Kandiyoh i	2, 357, 307 307 2, 140 2, 140 312 332 332 332 332 334 1, 140 1, 140	1,086 1,730 2,733 1,600 372 844 844 86,931 2,528 1,365 4,636
v of Narm	Jackson	208 11. 1259 11. 1259 11. 1259 11. 125 11. 125 12. 125 125 125 125 125 125 125 125 125 125	2,201 812 4,435 604 917 1,565 11,676 2,930 9,248 9,248
Summery of	1 7	(A)	1,650 1,013 2,711 1,363 3,68 238 238 238 238 5,990 3,925
בר ה (אים! בר ה (אים!	7 3 7 0 0 7	Cattle bought Cattle bought Sheep bought Sheep bought Feed Other livestock expense Crop expense Crop expense Power, machinery and equipment Custom work hired Buildings Hired labor Taxes, insurance and misc. (1) Total purchases (2) Decrease in capital (3) Board to hired labor (4) Unpaid family labor (5) Interest on farm capital	HECEIPH tile saling iry processor Escepanting and ultry and op A payment scelland) Total) Total) Total) Total) Total) Total) Total

Decidentive continues of year 350 \$ 315 \$ 314 \$ 365 \$ 4325 \$ 3139 \$ 2.941 1.0510.0100 1.0510		Brown,	Jackson	Kandiyobi	Martin	Murray & Nobles	Stevens & Swift	Watopran	Yellow Medicine
## 190 # 294				;	1111	E7L , 6	. 252	7 120	900
2.948 3.776 2.244 4.373 5.006 2.044 3.570 2.2948 3.770 2.2948 3.770 2.2948 3.770 2.2948 3.770 2.2948 3.770 2.2948 3.770 2.2948 3.770 2.2948 3.770 2.2948 3.770 2.2948 3.770 2.2948 3.770 2.2948 3.770 2.2948 3.770 2.2948 3.770 2.294 2.2948 2.294 2.2948 2.2948 2.294 2.2948 2.294 2.2948 2.294 2.294 2.2948 2.294 2.294 2.2948 2.294 2.2	Horses		290	\$ 515 \$ 15	44¢	φ 2002 2005 2006	250	לכל א מיל א	. 622 6
2.992 3,770 3,230 3,343 3,100 1,900 3,021 1,025 1,030	Productive livestock	3, 788	5,979	2,941	t, 0,00	, v	7000	7 520	0 0 T
Column C	Crop, seed and feed	2,942	2,70	2,202	0.71		, co	200 2	2,00
1, 255 1, 1744 1, 12.54 15.54 15.148 2.544 11.704 1.1.	Mach. and equipment	2°, 45°	3, 784	5,239	ر ا ا	7,114	90°	7,750	770
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### 100	Land	11.255	13.744		हर्त दे	000 SE	218 818	101 XCS	131
The color The	Total farm capital	\$27,600	\$55,590	\$51,524	472,022	430,000	(*O *O *A		
trock 11.7 36.9 36.7 40.3 44.5 35.5 39.7 100 A. 22.8 22.8 25.3 17.9 24.4 26.1 13.6 21.8 20.7 24.7 279 268 286 300 258 257 24.7 279 26.8 286 300 25.8 25.9 25.9 24.7 279 22.9 37.1 32.4 22.9 25.9 25. 37. 37. 39.7 27.9 25.9 26. 17. 20.7 184 2.0 2.3 2.0 1.8 27. 320 37. 36.9 37.1 39.7 27.5 28.7 28. 2.0 2.0 2.4 2.0 2.3 2.0 1.8 28. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	MEAS.OF FARE ORG. AND MARAGEMENT	THE TOT WILL	Ant	6	116	6 %	·85	108	. †01
trock the following the following state of th	Crop yleids - % or sw.	707 (26.0	7, 72) Y	177	35.5	7.65	9.0 ₁
1.00) • Th	200	 	300	66	91	86.	105
μης 2 5μ6 6εο 5ε1 683 μης 25 25/1 247 27 268 286 300 25/3 25/3 22.73 37.03 32.30 43.11 32.47 42.34 42.34 42.34 162 171 207 184 21.6 199 155 37 36 37.1 397 275 287 38 20 3.4 2.0 2.3 2.0 1.8 39 3.5 36 37.1 397 275 287 31 39 37.1 397 275 287 31 39 37.1 397 27.5 287 31 39 37.1 397 37.5 287 287 31 30 30 30 37.5 37.5 37.5 31 30 30 37.8 37.8 37.8 37.8 31 30 30	Index ret. Irom ilvestock A. n. livestock per 100 A.	22.8	25.3	17.9	↑. †	28.1	13.6	21.8	16.8
υφη 546 υξο 581 υδο υξο υξο <td></td> <td>•</td> <td></td> <td></td> <td>, ,</td> <td></td> <td></td> <td>F</td> <td>è</td>		•			, ,			F	è
rek \$2.73 \$5.05 \$5.11 \$2.47 \$2.59 \$25.94 \$2.594 \$2.594 \$2.73 \$3.05 \$2.30 \$5.11 \$2.47 \$42.34 \$2.594 \$2.594 \$2.73 \$3.05 \$3.05 \$3.11 \$2.0 \$1.14 \$2.0 \$2.3 \$2.5 \$2.5 \$2.5 \$2.5 \$2.5 \$2.5 \$2.5 \$2.5		£6 1	546	029	581	683	267	1/4	3 40
162 171 207 184 216 199 155 162 171 207 184 216 199 155 17 397 275 287 18 120 376 360 371 397 275 287 19 15 287 10 2.0 2.0 2.0 2.4 2.0 2.3 2.0 1.8 10 1.5 1.7 1.6 1.2 1.6 1.7 1.5 1.5 11 13.0 21.2 28.4 19.7 34.6 24.6 22.8 11 13.0 21.2 34.1 33.0 35.3 32.0 24.0 15 19 2 28.4 19.7 34.6 24.6 22.8 16 19 18 2 26.4 203.4 254.8 221.5 11.0 6.9 19 2 19 2 25.4 203.4 255.0 293.5 207.8 10 2 19 2 22.4 203.4 255.0 293.5 207.8 11 2 1.6 20.0 226.4 203.1 22.8 285.0 293.3 207.8 11 2 21.8 205.0 226.4 203.1 22.8 203.1 203.1 203.2 203.2 203.1 203.1 203.1 203.2 203.1 203.1 203.1 203.2 203.1 20	Work units per worker	75	279	268	586 5	300	278 278		
ock 171 207 184 216 199 155 ock 720 376 360 371 397 215 287 ars 20 20 20 20 20 20 20 20 cers 1.5 1.7 1.6 1.2 20 </td <td>Exp. per work unit</td> <td>\$2.73</td> <td>\$3.03</td> <td>∌2.30</td> <td>43.11</td> <td>\$2.41</td> <td>\$5.5¢</td> <td>すべいか</td> <td>≥ · ∨ *</td>	Exp. per work unit	\$2.73	\$3.03	∌2.30	43.11	\$2.41	\$5.5¢	すべいか	≥ · ∨ *
ref. 320 336 360 371 397 275 287 287 287 287 288 250 318 250 2.0 2.0 2.4 2.0 2.3 2.0 1.8 250 250 250 250 250 250 250 250 250 250		, cyt	.: 	202	181	216	199	155	191
rss 2.0 2.0 2.4 2.0 2.3 2.0 1.8 2.0 2.3 2.0 1.8 2.8 2.8 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	Mork units on crops	201	446	- C	377	39.7	275	782	236.
stres 2.0 2.0 2.0 2.0 1.2 1.6 1.2 1.6 1.7 1.3 1.7 1.3 1.7 1.3 1.5 1.7 1.3 1.7 1.3 1.5 1.7 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.4 1.5 1.4 1.5 1.4 </td <td>Work units on livestock</td> <td>אר היים ביים ביים ביים ביים ביים ביים ביים</td> <td>5,0</td> <td>33</td> <td>2</td> <td>2</td> <td>19</td> <td>R</td> <td>. 6</td>	Work units on livestock	אר היים ביים ביים ביים ביים ביים ביים ביים	5,0	33	2	2	19	R	. 6
stres 2.0 2.0 2.1 2.0 2.3 2.0 1.8 errs .5 .3 .8 .8 .7 .3 .5 rrs .5 .3 .8 .8 .7 .3 .5 rrs .5 .3 .6 .9 .7 .7 .5 .5 rrs .6 .6 .6 .9 .7 .7 .5 .6 .9 .8 .7 .1 .5 .6 .9 .8 .7 .1 .5 .6 .9 .8 .7 .1 .3 .2 .2 .6 .9 .2 .1 .1 .3	Other Work unite	***	3			•			OF C
rers 1.5 1.7 1.6 1.2 1.6 1.7 5 5.6 1.7 5 5.6 1.7 5 5.0 5 5.6 5.9 80.2 84.7 52.6 55.6 55.6 55.6 55.6 55.6 55.6 55.6	Total number of workers	2.0	2.0	್ ನೆ	2.0	2.3	2.0	M .	9:
IN FARM 63.9 93.4 122.2 70.5 98.2 134.3 74.4 crops 13.0 19.2 28.4 19.7 34.6 24.6 25.6 25.6 proped 13.0 19.2 28.4 19.7 34.6 24.6 25.6 25.6 sture 6.0 1.8 4.1 33.0 35.3 32.0 24.0 24.0 speed 6.0 1.8 4.5 0 2.0 8.0 25.6 24.0 speed 15.6 19.2 2.5 254.8 255.5 11.0 2.0 steads 16.0 1.8 4.5 0 2.1 11.3 1.3 1.3 77.2 86.3 86.3 91.4 89.2 85.2 88.8	Number of family workers	1.5	1.7	1.6	1.2	1.6	1.7	1.3	7. 4
Standard 63.9 93.4 122.2 70.5 98.2 134.3 74.4 75.6 5	Humber of hired workers	, r	~	50	80		.	Ċ.	Ņ
stops 63.9 93.4 122.2 70.5 95.5 15.5 $15.$	DISTRIBUTION OF ACRES IN FARM	•	i			9	7 1/2 1	זון זון ב	1.50
strops $\frac{4}{15}$.0 $\frac{5}{15}$.2 $\frac{5}{15}$.3 $\frac{5}{15}$.3 $\frac{5}{15}$.6 $\frac{5}{15}$.7 <t< th=""><th>in</th><th>63.9</th><th>93.4</th><th>122.5</th><th>. 6 . 6 . 6</th><th>7007</th><th>55.6</th><th>1</th><th>5</th></t<>	in	63.9	93.4	122.5	. 6 . 6 . 6	7007	55.6	1	5
sture 13.0 21.2 34.1 33.0 35.3 32.0 24.0 sture 5.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 18.0 196.8	ü,	17.0	N C C	0 cc	19.7	-9- 1 -0-		8 8	, r. d
speed $\frac{6.0}{155.6}$ $\frac{1.8}{196.8}$ $\frac{6.9}{254.5}$ $\frac{0}{254.8}$ $\frac{2.0}{254.8}$ $\frac{8.0}{251.5}$ $\frac{0}{183.8}$ s $\frac{14.0}{19.2}$ $\frac{1.8}{7.6}$ $\frac{4.5}{10.1}$ 0 $\frac{2.1}{254.8}$ $\frac{2.1}{254.8}$ $\frac{2.1}{254.8}$ $\frac{2.1}{255.0}$ $\frac{2.2}{255.0}$	Hillable acres in nay	7.12	77.60	74.1	33.0	35.3	32.0	o• †त	50.6
s 155.6 196.8 254.5 203.4 254.8 251.5 187.8 s 14.0 1.8 4.5 0 2.1 11.3 1.3 19.2 7.6 10.1 1.9 8.7 11.0 6.9 steads 16.0 19.5 21.8 16.5 19.4 19.3 15.8 206.0 226.0 226.0 221.8 221.8 285.0 297.3 207.8 77.2 86.3 86.9 91.0 89.2 85.2 88.8	Willshie Jand not chonned		8.6	6.9	0	2.0	8.0	9	2.5
s 14.0 1.8 4.5 0 2.1 11.3 1.3 1.3 19.2 7.6 10.1 1.9 8.7 11.0 6.9 1.2 7.2 2.2 2.2 0 0 2.2 0 steads 16.0 19.3 19.3 15.8 206.0 226.1 221.8 221.8 285.0 293.3 207.8 77.2 86.3 86.9 91.1 89.2 85.2 88.8	Total tillable land	155.6	196.8	254.5	203.4	254.8	251.5	183.8	192.8
steads 14.0 1.8 4.2 1.9 8.7 11.0 6.9 0 0 2.2 0 0 2.2 0 0 2.2 0 0 2.2 0 0 2.2 0 0 0 2.2 0 0 0 2.2 0 0 0 0			,	: . ;,	C		71 7	7,1	3.5
steads 16.0 19.5 20.8 16.5 19.4 19.3 15.8 206.0 226.4 293.1 221.8 285.0 293.3 207.8 77.2 86.3 86.9 91.4 89.2 85.2 88.8	Wild hay and Phalaris	14.0	1. x) [, x		0	11.3
msteads 16.0 19.5 21.8 16.5 19.4 19.3 15.8 207.8 206.0 226.4 293.1 221.8 285.0 293.3 207.8 77.2 86.3 86.9 91.4 89.2 85.2 88.8	Common tillable pasture	2.6T	۰,		, ,	- 0			2.1
steads 206.0 226.4 293.1 221.8 285.0 293.3 207.8 77.2 86.3 86.9 91.4 89.2 85.2 88.8	Imber not pastured	1	11) ע ע	10, 01	19.3	15.8	19.1
77.2 86.3 86.9 91.4 89.2 85.2 88.8	Roads, waste and farmsteads	0.90%	2966		221.8	285.0	33.3	207.8	229.1
	Local rand in Larm	77.2	86.3		91.1	89.2	85.2	88.8	85.3

Table 24. Miscel	llaneo	Miscellaneous Informati	on - Average	Averaged by Counties	1942	(Continued)	-		1
		:			Nobles &	دب	: 1	Yellow.	
	Brown	Vackson	Kandi yobi	Martin	Murray	& Swift	Wa tonuan	Medicine	1
Lan Acad	6			, , , , , , , , , , , , , , , , , , ,		ć		7 61	
•	76.7	0.11	٠٠. ا	12.4	, T.T.	ن ن	: 1. J.	- ; t t t	
•	8 5.	25.0	37.1		1(.5	51.8	٠ ا ا	8.25	
a de la companya de l	ූ. දි	. 55.6	17.2		13.	2	7.67	8	
	53.4	148.7	L.1	54.3	38•₩	48.5	54.1	57.5	
7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7	,	1							
sin. ou.	ي ا ا	15.9	12.1	10.4	1-11	14.0	20.0T	0.01	
grain, bu.	9.00	65.4	ار د د	71.0	50.0	, , , ,) 60	76.1	
Corn silage, tons	11.1	11.5	9.5	10.3	5.6	× × ×	10.4	10. 10.	
Alfalfa hav tons	7.7	7,1	11 'C	3.6	9.6	2.1	2.7.5	60 CV	
Wild hay, tons	1.0	7	7.		.5	٥	b 0	11.3	
			·		```	L 1			
AMOUNT OF LIVESHOCK						; > -			•
No. dairy & du. pur. cows	11.9	8.5	17.1	12.4	8.9	11.5	7.8	5.	
cattle	12.0	7.5	20.7	11.8	10.7	11.0	10.1	Q Tab.	
in beef-breeding herd	2. 5	10.3	3.6	6.2	11.9	3.9	12.3		
Lbs. feeder cattle produced 2	2,287	10,150	200	3,392	13,753	2.007	1,647	292	
	ý.	(-	d d		- (c			
in the second pigs raised	10.0	19.9	0.41	22.9	10.4	10.01	10.0	09 T.T	
	77,171 28.5	4,0,00	+J0,C2	79,600	17.0	2),050	20.00 0.00	17,700	
	185	213	123	159	258	, K	169	0 K	
							•		
Total no. prod.livestock units	11.1	1.61	14.1	51.1	9. 18 8	36.8	h1.6	32.6	
84.0	41.1	10.4	70,7	7, 7, 5	12.6	73.1	ט, ומ	8	
cattle	16.4	9.6	٠ ٠	17.	0.6	17.3	14.7	8.0	
	3.6	13.0	0.4	9.1	21.7	9.1	15.5	26.6	
Feeder cattle	4.0	18.8	80	10.6	17.4	11.0	ري. د د	5.0	
			•						
Sheep - farm flock	0.0 V:		٠. ت	1.7	0 h		5.3	2.9	
	# ! N !	v (O !	7 1	٠٠, ٠٠,) () i	0 0	
nie.	ڻ ٽ	₹. 87.	23.7	34.2	7.12 7.73	्र इ.स.	55.5	20°0	
Chickens	, ₂) K	0.8	, k	, , , , , , , , , , , , , , , , , , ,	7.7	× 4	0 8	
	:	?)) •		
		***************************************						بينيدور ومسيمة والمستوان و	1

Table 25. Summary of Farm Earnings by Years*

20020 -00				
Items	T S AD SE (Mail	1940	1941	1942
No. of farms		99	. , 96	95 . (2016 - 1883) 1883 1883 1883 1883 1883 1883 188
FARM EXPENSES		A		 K. B. G. Britan
Horses bought	, 1 1044	\$ 26	\$ 24	\$ 32
Dairy and dual-purpose cattle	bought	64 _{.,}	127	74
Beef cattle bought (including		258	295	934
Hogs bought		78	146	254
Sheep bought (including feeder	8)	106	135	489
Poultry bought (including turk		67	_83	122
Miscellaneous crop expenses		219	216	317
Feed bought		497	741	1,401
Power machinery (farm share) (new)	304	397	278
Power machinery (farm share) (upkeep)	318	396	474
Custom work hired		124	. 103	172
Crop and general machinery (ne		266	298	326
Crop and general machinery (up	keep)	50	60	102
Livestock equipment (new)		50	86	98
Livestock equipment (upkeep)		13	18	46
Miscellaneous livestock expens	80	58	85	109
Buildings and fencing (new)		297	376	311
Buildings and fencing (upkeep))	130	104	
Hired labor		251	290	
Taxes		228	230	258 35
Insurance		9	27	35 41
General farm		33	37	
(1) Total farm purchases		\$3,446	\$4,274	क्ठ,०००
(2) Decrease in farm capital		- 110		129
(3) Board furnished hired labor	or	112	115	
(4) Interest on farm capital		1,231	1,304	1,488 381
(5) Unpaid family labor	- /-> . />	246	29 <u>6</u>	
(6) Total farm expenses (Sum of	of (1) to (5)	\$5,035	\$5,989	\$8,354
FARM RECEIPTS		A 020	A 77	\$ 31
Horses		\$ 37	\$ 37	· ·
Dairy and dual-purpose cattle		280	383	
Dairy products		673	7 98	
Beef cattle (including feeders	3)	543	835	
Hogs		1,075	1,859	
Sheep and wool (including feet	iers)	204	268 361	
Poultry (including turkeys)		273	317	
Eggs.		188	337 337	
Corn		302	767	
Small grain		637	180	
Other crops		154 115	145	
Power machinery sold	1.5	61	66	
Crop and general machinery sol	La	252	128	
Miscellaneous		115	124	
Income from work off the farm	. + 0	419	412	
Agricultural Adjustment paymen	168	\$5,373	\$7,017	
(7) Total farm sales		1,235	1,772	1,559
(8) Increase in farm capital(9) Family living from farm		455	482	
(10) Total farm receipts (?) +	(8) ± (9)	\$7,023		
(6) Total farm expenses	(U) + (U) N	\$5,035	\$5,989	
(11) Operator's labor earnings	(10) - (6)	\$1,988	\$3,282	
/==/ Oborcoor o repor ecrimes	(20) - (0)	Ψ1,000	ψυ,~ω	Ψ Ο 1 ===

^{*}The financial statements differ in that the unpaid family labor rate was \$45 per month in 1940, \$50 in 1941, and \$60 in 1942; and the board for hired labor was calculated at \$18 per month in 1940, \$20 in 1941, and \$25 in 1942.

Table 26. Summary of Miscellaneous Items by Years

Items	1940	1941	1942
Total farm capital (beginning of year) MEAS. OF FARM ORG. AND MANAGEMENT EFFICIENCY	\$24,008	\$25,191	\$29,756
% tillable land in high return crops	34.9	37.6	39.8
Animal units prod. livestock per 100 A.	19.6	21.2	
Work units	490	503	541
Work units per worker	253	256	270
Expenses per work unit	\$1.99	\$2.16	\$2.70
ACRES PER FARM	225	228	246
Crop acres per farm	174	171	187
CROP YIELDS PER ACRE		T.1	101
Flax, bu.	13.6	11.5	11.0
Barley, bu.	41.9	29.9	28.1
Wheat, bu.	26.0	11.9	19.2
Oats, bu.	59.5	28.1	49.7
Corn, grain, bu.	49.5	55.3	56.6 ·
Corn silage, tons	8.9	9.7	10.0
Corn fodder, tons	3.0	3.3	
Alfalfa hay, tons	1.9		4.0
GRCSS RETURNS PER:	1,9	2.5	2.8
Dairy cow	\$00 RE	405 50	A375 WA
Dual-purpose cow	\$80.75	\$95.59	\$111.79
	60.20	80.27	95.97
Animal unit in beef-breeding herd	57.71	59.53	72.29
100 pounds feeder cattle produced	10.02	12.41	
Head of sheep in farm flock	6 .30	8.67	-
100 pounds feeder sheep produced	10.65	15.47	24.70
100 pounds hogs produced	5.85	10.66	14.37
Hen	2,32	2.96	4.22
100 pounds turkeys produced PRICE RECEIVED PER:	12,55	17.50	25.84
Lb. butterfat sold to creameries	\$.31	\$.37	\$.43
100 lbs. beef cattle sold	7.98	9.57	11.78
100 lbs. feeder sheep sold	9.15	10.41	12.97
100 lbs. hogs sold	5.36	9.06	13.10
Lb. wool sold	.30	.38	•40
Doz. eggs sold	.15	.22	.28
Lb. turkeys sold	.15	.20	.30
MISC. LIVESTOCK INFORMATION	•=-	•~0	,00
No. of work horses	3.8	3.6	3.7
No. of colts	.9	.9 :	
No. of dairy or dual-purpose cows	10.4	10.1	4
Head of other dairy and dual-purpose cattle	10.3	11.6	-
Head of cattle in beef-breeding herd	#3 9. 9	8.7	10.6
Pounds fooder cattle produced			8.4
production.	1,112	2,670	5,059
Litters of pigs	13.0	15.5	16.0
Pounds of hogs produced	20,544		26,774
Head of sheep	21.1	20.8	
No. of hens	- 130 A		17.6
A Company of the Comp		106	188
Pounds of butterfat per dairy cow	246	272	200
Pounds of butterfat per dual-purpose cow	188	235	225
No. of pigs per litter		199	186
% lamb crop	6.5	6.3	6.4 .
Eggs per hen	103	102	102
-OD- kot mon	126	120	131