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UNIVERSITY OF MINNESOTA

Department of Agriculture
and the

United States Department of Agriculture
Soil Conservation Service

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6th
Annual Report
of the
Soil Conservation
Farm Management Service
1940

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Division of Agricultural Economics
University Farm
St. Paul, Minnesota
May, 1941

## Sixth Annual Report of the Soil Conservation Farm Management Service for the Year 1940

Prepared by T. R. Nodland, G. A. Pond and C. Herman Welch, Jr.

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#### INTRODUCTION

The Division of Agricultural Economics and the Division of Agricultural Extension of the University of Minnesota and the Soil Conservation Service of the United States Department of Agriculture have since 1935 maintained a complete farm record service, for farmers in the Soil Conservation Areas of Southeastern Minnesota. In 1935 only farmers who were cooperating with the Soil Conservation Service and operating their farms under a complete erosion control program in the Gilmore Creek Area at Winona and the Deer-Bear Creek Area at Spring Valley were included. In 1936 the service was extended to include farmers cooperating with the Soil Conservation Service in the Beaver Creek Area at Caledonia. In 1939 the service was further extended to include cooperators in the Houston and Caledonia C.C.C. camp areas and also a considerable number of farmers who were not cooperating in erosion control with the Soil Conservation Service. A total of 75 farmers completed records in 1940. Only two farmers closed records in the Gilmore Creek Area and their farm data are included with that of Houston county.

#### RECORDS KEPT

The records kept by the cooperators included inventories at the beginning and end of the year, cash receipts and expenses, a record of feed for the various classes of livestock, and a record of the farm produce used by the farm family. Complete household and personal records were also kept by 43 cooperators. Supplementary information was secured during the year regarding crop and livestock and production practices.

The cooperators were assisted and supervised during the year by the fieldman, Mr. Austin B. Sanford of the Operations Division, Soil Conservation Service, who checked the records several times during the year for accuracy, completeness, and comparability. At the end of the year the records were completed and closed by C. Herman Welch, Jr., C. R. Hoglund, and H. O. Anderson of the Economics Division, Soil Conservation Service, and George V. Bowers and Austin B. Sanford of the Operations Division. The records were then brought to University Farm where they were checked and summarized under the direction of G. A. Pond and T. R. Nodland of the Division of Agricultural Economics of the University of Minnesota, who prepared this report.

The account books were furnished by the Agricultural Extension Division of the University of Minnesota. S. B. Cleland of this division handled the field organization and was assisted in securing the cooperation of the record-keeping farmers by Francis Brady, county agricultural agent of Houston county.

#### TYPE OF FARMING

Agriculture in the two areas covered by this report centers primarily around the dairy enterprise with smaller proportions of hogs, poultry and sheep included. A few farmers have both dairy cattle and beef cattle enterprises. Dairy products were sold principally as cream, although a few farmers had an outlet for whole milk. In those cases where cream was sold, the skim milk was fed to the calves, hogs and poultry.

The principal crops grown were oats, barley, hav and corn. The proportion of total farm land devoted to crop production and rotation pasture land varies from 30 per cent on some of the rougher farms in Houston county to more than 85 per cent on some of the more level farms in the Deer-Bear Creek Area, with an average of 60 per cent for all farms studied. Approximately 28 per cent of the farm acreage is devoted to permanent pasture, and about 8 per cent is in protected woodlots.

#### TOPOGRAPHY AND SOILS

The Deer-Bear Creek Area, in which 14 records were completed, is located in northwestern Fillmore county and along the eastern edge of Mower county and is drained by the middle branch of the Root River. The topography varies from very gently rolling to almost level land, in the upper part of the area, to very steep, hilly and rough land in the lower end. In many cases the upper end of the area lacks sufficient undulation of surface to allow proper drainage, in contrast to the lower, where creeks have cut deeply into the underlying limestone. The entire area has been glaciated almost equally between soils composed of drift material and of loessial mantle overdrift. Carrington and Lindley silt loam soils with glacial drift derivation and Tama & Clinton silt loams with loess derivation are among the more important soil types of the area. Erosion varies from slight amounts of sheet erosion in the upper reaches of the drainage areas to severe sheet and gully erosion in the middle and lower parts of the area.

Houston county, in which 59 records were completed, is located in the southeastern corner of the state. Most of the southwestern quarter of the county, in which somewhat more than one-half of the cooperation farmers are located, is undulating and moderately rolling. Productive forest and prairie soils (Fayette silt loam and Tama silt loam), mostly tillable, occupy about 75 per cent of this area. These areas are subject to some erosion. The remaining land in this area is generally too steep to till, but is satisfactory for grazing. Some of the hillsides are wooded.

The remainder of the county is undulating to hilly. The farmers keeping records are located largely in the Root River watershed. The Root River and other streams have cut numerous deep valleys with shallower tributaries. The soil on the ridges (Fayette silt loam) is quite productive. The soil below the most level part of the ridges (Dubuque silt loam) is less productive and is more subject to erosion. The valley floors represent excellent corn land, but frequent overflows reduce its value for other crops. Considerably more than half of the land is too steep to be tillable, much so steep as to be of limited value for grazing. The steepest north-facing slopes are covered with wood. The lime content of the soils throughout the county is too low for the satisfactory production of alfalfa and sweet clover. Out-crops of limestone of suitable quality for application to the soil occur in many parts of the county.

The Gilmore Creek Area, in which two records were completed, is located at the southwestern edge of the city of Winona in Winona county. The valley and side coulees are very narrow with steep sides. The ridges are narrow, varying from a few rods to usually less than one-fourth of a mile in width. The upland soils fall mainly into two types, Clinton silt loam, a forest soil developed on loess, and Dubuque silt loam, a forest soil developed on residual limestone. The valley soils consist mostly of Jackson silt loam and Chariton silt loam. A considerable portion of the steep valley slopes is classified as rough, stony land. Serious sheet and gully erosion has taken place over the area.

#### WEATHER

The winter was favorable for new seedings and winter grains. Temperatures were approximately normal in 1940. Precipitation for the year was below normal although early rains were received when most needed for small grains and corn. A dry period during late spring had a detrimental effect upon pastures and retarded the growth of meadows to some extent. Small grain yields were high although a rainy spell during threshing caused some loss. On a few farms in the Deer-Bear Creek Area hail severely damaged the grains and second crop of hay. A drought in late September drastically reduced pasture growth. Corn yields were a little above normal and the moisture content was high. An early winter handicapped many farmers and yard feeding of live-stock began earlier than usual.

Table 1. Monthly and Annual Precipitation, 1940, and Normal

							. •						
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Gilmore Creek													ř
(Winona)	.25	. 60	1.46	1.92	2.46	4.37	2.63	5.22	.86	2.69	2.81	1.02	26.29
Deer-Bear Creek							· ·						, E .
(Spring Valley	).16	. 60	1.09	1.68	2.08	3.77	3.28	5.20	.38	2.29	3.21	1.48	25.22
Beaver Creek	÷			30	***	3. (4)		**					
(Caledonia)	.36	.64	1.15	2.10	1.58	3.29	3.41	8.73	.19	3.44	3.29	1.55	29.73
Caledonia				*									
(1890-1919)	1.08	1.02	1.71	2.88	4.18	4.81	3.78	3.44	3.92	2.57	1.47	1.22	32.08
Spring Grove								•			•		
(1935-1940)	1.12	1.05	1.56	2.31	3.20	3.77	2.41	5.32	3.12	2.32	1.50	.81	28.69

Summary of Farm Invent	Summary of Farm Inventories (Beginning of Year), 1940						
	Your	Average of 75	15 most profitable				
Items	<u>farm</u>	farms	farms	farms			
Size of farm (acres) Size of business (work units)*		219.3 522 v	258•9 683	244.7 552			
Horses Productive livestock (total) Dairy and dual-purpose cows Other dairy & dual-purpose cattle Beef cattle (including feeders) Hogs Sheep (farm flock) Poultry (including turkeys) Crop, seed, and feed Mach. & equipment (total) Power mach. (f. share) Crop & gen. mach. (f. share)		\$ 377 2,041 696 460 320 365 88 112 1,212 1,773 699 829	\$ 395 .2,402 .664 .415 .530 .486 .97 .210 1,748 .2,222 .819 1,072	\$ 336 2,214 761 558 290 349 171 85 1,134 1,971 869 801			
Livestock equip. & supplies Buildings, fences, etc. Land		245 5,284 6,474	331 5,808 <u>7,602</u>	301 5,842 8,142			
Total farm capital \$		\$17,161	\$20,177	\$19,659			

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 and at average efficiency.

\*Explanation of term: "Work units."

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

0.		No. of			No. of
Item	Per	work units	Item	Per	work units
		•	*	9	·
Dairy and dual-	COM	14.5	Small grain	acre	8
purpose cows			Soybeans for grain	11	. 1.0
Other dairy and )		4.4	Sugar beets	<b>!</b> !	3.0
dual-purpose cattle)	animal		Sweet corn	11	2.5
Beef breeding herd )	unit*	4.0	Corn, husked	11	1.7
Sheep - farm flock )		2.0	Corn, hogged	n	1.1
Hens	100 hens	28.0	Corn, shredded	11	2.8
Feeder cattle )		.4	Corn silage ,	n	2.1
Feeder sheep )	100 lbs.	• 5	Corn fodder	11	1.5
Hogs )	produced	• • 3	Alfalfa hay.	11	1.0
Turkeys )	744	. 7	Soybean hay	11	1.4
Canning peas	acre	2.0	Other hay crop .	H	• 6

<sup>\*</sup>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.

Summary of Farm I	nver	tories	(End of Yea	ar), 1940	
		Your	Average of 75	15 most profitable	15 least profitable
Items	· .	farm	farms	farms	farms
Horses	¢		\$ 344	\$ 362	\$ 530
Productive livestock (total)	Ψ		2,276	2,935	2,4].5
Dairy & dual-purpose cows	-		749	733	791
Other dairy & duel-purpose cattle	:07		478	451	638
Beef cattle (including feeders)			431	879	425
Hogs	-		408	507	342
Sheep (farm flock)	_		90	113	140
Poultry (including turkeys)			120	252	79
Prop, seeds, and feed			1,452	2,152	1,209
Mach. & equipment (total)			1,818	2,431	1,991
Power mach. (f. share)			722	919	891
Crop and gen. mach.			829	1,093	806
Livestock equipment and supplies	-		267	419	294
Buildings, fences, etc.			5,290	5,939	5,828
Land	_		6,474	7,602	8,142
Total farm capital	\$		\$17,654	\$21,421	\$19,915

Summary of Amoun		Average	15 most	15 least
•	Your	of 75		
Items	farm		-	farms
	Ÿ.			*
No. of horses		3.6	4.1	. 3.3
No. of colts		1.0	.9	1.3
To. of dairy & dual-purpose cows		13.0	12.7	14.6
Head of other dairy & dual-purpose cattle		15.9	13.6	19.0
Head of cattle kept in beef breeding herd	<u>S</u>	6.3	13.1	6.4
itters of pigs		11.9	13.3	10.8
Pounds of hogs produced		17,521	22,268	14,874
Head of sheep (2 lambs = 1 head)		13.5	15.4	19.5
No. of hens		102	105	. 93
lotal no. of prod. livestock animal units	-	38.0	46.3	40.3
of total that are dairy and dual-		38.5	31.0	40.5
purpose cows  f of total that are other dairy and dual- purpose cattle		23.4	15.8	27.0
furpose cattle for of total that are in beef breeding herd		7.4	16.2	5.6
6 of total that are feeder cattle		.9	1.3	.0
% of total that are sheep (farm flock)	i i	4.0	5.1	5.6
% of total that are hogs		20.2	19.6	18.4
of total that are turkeys		2.2	8.3	•0
% of total that are hens		3.4	2.8	2.9
Number of farms with tractors		57	12 .	12
h.				

Summary of Farm Earnings		Average	1940 15 most	15 least
	Your	of 75	profitable	profitable
Items	farm	farms	farms	farms_
FARM EXPENSES				
Horses bought \$		\$ 1.7	\$ 23	\$ 23
Dairy and dual-purpose cows bought	181	16	4.	26
Other dairy & dual-purpose cattle bought		46	70	17
Beef cattle bought (including feeders)		44	98	55
Hogs bought		47	11.5	24
Sheep bought		9	16	4
Poultry bought (including turkeys)		70	185	20
Misc. crop expenses		132	242	1.16
Feed bought		455	967	359
Power mach. (farm share) (new)		127	221	125
Power mach. (farm share) (upkeep)		206	289	<b>2</b> 65
Custom work hired		81	98	68
Crop and general mach. (new)		93	150	92
Crop and general mach. (upkeep)		24	41	30
Livestock equipment (new)		54	121	32
Livestock equipment (upkeep)		8	15	9
Misc. livestock expense		30	. 59	41
Buildings and fencing (new)		189	243	159
Buildings and fencing (unkeep)		79	116	107
Hired labor		21.5	390	176
Taxes		262	300	282
Insurance		3	8	1.
General farm		13	15	19
(1) Total farm purchases \$		\$2,220	\$3,786	\$2,050
(2) Decrease in farm capital		_	_	
(3) Board furnished hired labor		82	140	89
(4) Interest on farm capital		870	1,040	989
(5) Unpaid family labor		305	209	496
(6) Total farm expenses (Sum of(1) to (5))		\$3,477	\$5,175	\$3,624
FARM RECEIPTS			, ,	,
Horses		35	38	4.
Dairy and dual-purpose cows		128	141	106
Dairy products		763	796	854
Other dairy and dual-purpose cattle		285	253	258
Beef cattle (including feeders)		134	274	65
Hogs		949	1,342	. 790
Sheep and wool		85	108	133
Poultry (including turkeys)		324	1,018	51
Eggs		164	256	132
Corn		28	42	22
Small grain		54	159	53
Other crops		184	668	72
Power machinery sold		38	66	39
Crop and general mach. sold		24	62	7
Misc.		127	192	111
Income from work off the farm		220	427	285
Agricultural adjustment payments		226	325	216
(7) Total farm sales	Latinac Commi	\$3,768	\$6,167	\$3,198
(8) Increase in farm capital		493	1,244	276
(9) Farm prod. used in house + house rent		472	506	453
(10) Total farm receipts (7)+(8)+(9)		\$4,733	\$7,917	\$3,927
(10) Total farm receipts (7)+(8)+(9) (6) Total farm expenses		\$4,733 3,477	\$7,91 <b>7</b> 5,175	\$3,9 <b>2</b> 7 3,624

Summary of Farm Earnings (Enter Your Items farm	Average of 75 farms	15 most profitable farms	15 least profitable farms
EXPENSES AND NET DECREASES			
Total power \$	\$ 420	\$ 492	\$ 485
Horses	_ Ψ <del>Ψ</del> ωΟ	Ψ 432 164	160
Tractor	102	102	122
Truck	31	45	61
Auto (farm share)	75	98	68
Gas engine (farm share)	_	9	8
Elec. plant or current (farm share)	- 19	22	31
Hired power	43	52	35
Crop and general machinery	97	111	94
Livestock equipment	36	40	46
Buildings, fencing and tiling	_ 35 141	120	190
Misc. productive livestock expense	_ 28	55	40
Labor		767	781
Real estate taxes	227	267	230
Personal property tax	_	33	52
Insurance	_ 3	8	$\frac{3z}{1}$
General farm	13	15	19
Interest on farm capital	870	1,040	989
(1) Total expenses & net decreases	2,495	2,948	2,927
RETURNS AND NET INCREASES			
All productive livestock	3,167	4,558	2,786
Dairy and dual-purpose cows	1,008	1,071	1,111
Other dairy & dual-purpose cattle	417	366	472
Beef breeding herd	196	491	124
Feeder cattle	29	75	0
Hogs	976	1,276	785
Sheepfarm flock	78	108	100
Turkeys	232	891	0
Chickens	231	280	194
Crops, seed and feed	4	187	-188
Income from work off the farm	_ 220	427	285
Agricultural conservation payments	226	325	216
Miscellaneous	134	193	3.31
(2) Total returns & net increases	3,751	5,690	3,230
(1) Total expenses & net decreases	2,495	2,948	2,927
(3) Oper. labor earnings (2) - (1)	1,256	2,742	303

<sup>(</sup>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 in page 6.

Analysis of the Reasons for Differences in Operator's Earnings

The financial statement on the preceding pages shows that there is a wide range in earnings. The average operator's labor earnings for the fifteen most profitable farms was \$2,742, and for fifteen least profitable farms \$303. The difference between the averages for these two groups was \$2,439. Some of the causes for these differences in earnings may be beyond the control of the farmer. It is significant, however, that the data secured from the records on these 75 farms indicate that there are several very definite factors that enable some farmers to make substantial earnings on these farms that are subject to rather serious erosion, while others fail to meet expenses. These factors and their relationship with earnings are the following:

Table 2. Relation of Crop Yields to Farm Earnings

	Per cent crop	yields were of the		
	average for al	l the 75 farms	No. of	Average
e	Group	Average	Farms	Earnings
	Below 85	74	24	\$ 715
	85 to 114	103	33	1,466
	115 and above	130	18	1,592

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. As a rule, plowing under legumes and manure and control of erosion tend to increase crop yields on these farms.

Table 3. Relation of Choice of Crops to Farm Earnings

Per cent of ti	llable land in		
high return cr	ops*	No. of	Average
Group	Average	Farms	Earnings
Below 28	24.4	19	\$1,155
28 to 44	36.2	42	1,262
45 and above	50.7	14	1,373

<sup>\*</sup>Crops are marked on page 14 as (A), (B), (C), or (D). All of the 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.

As a rule, on these farms, such crops as alfalfa, sweet clover, red clover, corn, barley, winter wheat, and flax bring a higher net return per acre than other crops usually grown. Additions can be made to earnings by putting a greater percentage of the tillable land into these higher return crops.

Soil erosion and fertility maintenance are vital problems on the farms included in this study. Biennial and perennial legumes, especially alfalfa and sweet clover, form a sod that helps to check erosion, conserve humus and soil fertility. If properly inoculated they tend to increase the nitrogen content of the soil. Legume hays and pastures are also valuable for feed, for they lessen the necessity to purchase high-priced protein feeds. Alfalfa is undoubtedly the most profitable crop available for these farms.

Table 4. Relation of Returns from Productive Livestock to Farm Earnings

Index of returns fed to productive	1.50	*	No. of	Average
Group	Average		Farns	Earnings
Below 86	72		17	\$ 971
86-113	100		39	1,302
114 and above	126	* * * * *	19	1,302 1,416
		4		

<sup>\*</sup>The index is weighted by the number of animal units of each class of livestock.

The majority of these farms are dairy farms. However, in addition to the dairy herd there is quite an investment in other classes of productive livestock such as beef cattle, hogs, sheep or poultry. Most or all of the feed raised is fed on the farm and considerable additional feed is purchased. Feed is the major item of cost in livestock production and livestock constitute the major source of income on these farms. Hence there is a marked relationship between returns for \$100 of feed and operator's labor earnings 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 5. Relation of Amount of Productive Livestock to Farm Earnings

Productive lives	tock units		S 3 a
per 100 A.		No. of	Average
Group	Average	Farms	Earnings
. 1	÷	,	
Below 17.0	14.3	. 24	\$1,202
17.0 to 23.9.	20.9	. 28	1,251
24.0 and above	29.9	23	1,317
		•	

On some farms the returns from livestock are so low that they do not cover feed and other costs. Such livestock is unprofitable, especially if there is more than enough to utilize what would otherwise be waste feed.

ing a menganggan penggan peng

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 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 6. Relation of Size of Business (days of prod. work) to Farm Earnings

Days of product	tive work	No. of	Average
Group	Average	Farms	 Earnings
	Y.		
Below 375	308	16	\$ 813
375 to 624	483	<u>4</u> 0	1,124
625 and above	783	19	1,907

Average farm earnings tend to increase with an increase in size of business where size of business is measured by days of productive work. However, for those farmers who are operating their farms at a loss, the larger the volume of business the larger will be the loss. On the other hand, a farmer who is making a profit, could make a larger profit if he increased his size of business, providing that in 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.

Table 7. Relation of Amount of Work Accomplished per Worker to Farm Earnings

Days of productive wo	rk per worker	No. of	Average
Group	Average	Farms	Earnings
			•
Below 200	167	14	\$ 696
200 to 314	257	44	1,180
315 and above	358	17	1,913

More days of productive work accomplished per worker reduce 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 an efficient manner, 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, economical use of labor-saving machinery, etc., help to increase the work accomplished per worker.

Table 8. Relation of Power, Machinery and Building Expense to Farm Earnings\*

Expense per day	of productive work	No. of	Average
Group	Average	Farms	Earnings
\$1.95 and above \$ .90 to \$1.94 Below \$ .90	\$2.23 1.33 .73	12 49 14	\$1,151 1,182 1,605

<sup>\*</sup>Includes building, fencing, and all machinery expense, horse feed, and miscellaneous horse expense.

The expense factor shows a higher relation with earnings when prices are very low than when they are high. 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 9.

Table 9. Relation of Operator's Labor Earnings to the Number of

	ractors 1	n which t	ne farmer is Above the Average	<u> </u>
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 Earnings
Five or six	17		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	\$1,909
Four	16	<del></del>	. KAKKKKKKKKKKKKAGATATAK	1,655
Three	24		KXXXXXXXXXXX	914
$\mathbb{T}_{W}$ o	13	· .	XXXXXXXXXXXX	800
One or none	5		XXXXXXXXXX	588

The array in Table 9 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.

Measures of Farm Organization and Management E	fficiency,	1940	
Measures used in chart Your on page 13 farm	Average of 75 farms	15 most profit- able farms	15 least profit- able farms
Operator's Labor Earnings \$	_, \$1,256	\$2,742	\$ 303
(1) Crop yields*	_ 100	106	, 81
(2) % of tillable land in high return crops**	35.9	34.9	32.5
(3) Ret. for \$100 feed to prod. livestock***	_ 100	107	97
(4) Prod. livestock units per 100 acres****	21.6	23.2	20.7
(5) Size of business - work units	522	683	552
(6) Work units per worker	263	327	229
(7) Pow., mach., equip. & bldg.exp.per work unit\$	\$1.36	\$1.16	\$1.48
Measures and items related to some of the above measures:	,		
(3) Index of return for \$100 feed from -			
Dairy cattle Milk and beef cattle	100 100	96 102	100
Beef breeding herd	100	102	52
Feeder cattle	100	102	-
Hogs	100	102	88
Sheep - farm flock	100	102	85
Turkeys	100	-	-
Chickens	100	90	102
(5) Work units on crops	127	182	132
Work units on productive livestock	340	394	349
Other work units	<u>.</u> 55	107	71.
(6) Total number of workers	2.0	2.2	2.4
Number of family workers	1.6	1.4	1.9
Number of hired workers	.4	• • 8	•5
(7) Power expense per work unit \$	\$.83	\$.75	\$.90
Crop machinery expense per work unit	.19	.17	.1.8
Livestock equip. expense per work unit	06	•06	•08
Bldgs. and fencing exp. per work unit	28 .	.18	•32

<sup>\*</sup>Given as a percentage of the average.

<sup>\*\*</sup>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.

<sup>\*\*\*</sup>An index weighted by the animal units of livestock.

<sup>\*\*\*\*</sup>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 75 farms included in this summary are located between the dotted lines across the center of this page.

Oper.	<del></del>	High	Return	Pr. 1.s.		Work	Pow., mach.,
labor		re-	from pro-			units	eq., & bldg.
earn-	Crop	turn	ductive	per	Work	per	exp. per
ings	yields	crops	livestock		units	worker	work unit
-	F	E	E	E	<b>}</b>		<u> -  </u>
\$2850	140	52.0	340	37.6	0.40	F00	¢ 10
Ψ2000		52.0	140	37.0	840	380	\$.40
					<u> </u>		
2650	135	50.0	135	35.6	800	365	.52
=	E	E	F		Εl	-	F
2450	130	48.0	130	33.6	760	350-	.64
=	E	=	E	E	El		E
2250	125	46.0	125	31.6	720	335	.76
=	-29=	±0.0	123	51.0	720=		• 10
-	3 00 =						
2050	120	44.0	120	29.6	680	320	.88
E			<b>=</b>	F	F	Fi	<u> </u>
1850	115	42.0	11.5	27.6	640	305	1.00
=	=	=			=		
1650	110	40.0	110	25.6	600	290	1.12
		10.0	110	20.0	000	2.90	1 • 1.%
3.450	30c=	F0 (=	3.0.5				1
1450	105	38.0	105	23.6	560	275	1.24
······							
1250	100	36.0	100	21.6	520	263 <u> </u>	1.36
	E	=	E	El	E	El	
1050	95	34.0	95	19.6	480	245	1.48
E	ΞI		E	=	=	~ 19 =	=
850	90=	32.0	90	17.6	440	230-	1.60
-		02.0	30 = 1	17.0	-1440	204	
	_ =			-			_
650	85	30.0	85	15.6	400	215	1.72
-	E	E	E	Ei	=	E	El
450	80	28.0	80	13.6	360	200	1.84
	=		<u> </u>	]_			=
250	75	26.0	75 =	11.6	320	185	1.96
	19=	20.0	, 2/= 1	11.0	520		F
50	70E	24.0	70	9.6	280=	170	2.08
				=:			=
<b> </b>	=				=		
-150	65	22.0	65	7.6	240	155	s•so=
=	-			<b> - </b>			
Γ. (	Γ (		$\mathcal{F}$	厂人	厂(	/ (	5

Crop Yields	per Acre, ]	940		Control of the second of the s
	Your farm	Average of 75	15 most profitable	15 least profitable
Crop		farms	farms	farms
Flax, bu.		8.6	10.1	8.4
Barley, bu.	Marketing white representation of the analysis of the	_ 33.3	33.8	25.7
Winter wheat, bu.		20.8	23.3	20.0
Spring wheat, bu.		15.8	19.6	14.0
Oats and barley, bu.		37.8	43.3	36.9
Oats and wheat, bu.		40.9	43.7	-
Oats, bu.		36.4	39.3	30.2
Rye, bu.		26.5	35.0	-
Soybeans for grain, bu.		16.0	17.1	10.1
Potatoes, bu.		90.4	77.5	93.1
Corn, grain, bu.		57.8	58.4	47.0
Corn silage, tons		10.0	9.2	9.3
Corn or cane fodder, tons		5.4	5.5	-
Alfalfa hay, tons		2.1	2.2	1.9
Red clover hay, tons		1.5	1.7	1.3
Soybean hay, tons		1.9	1.4	1.9
Mixed legume and non-legume hay, tons		1.5	1.4	1.6
			1	3.4
Timothy and/or brome hay, tons		1.2	1.4	. 9
Timothy seed, 1bs.		1.35.2	176.3	88.3
Other annual hay, tons		_ ,9	1.0	. 7
Wild hay, tons		1.2	• 5	1.2
Feed Costs for Horses and Misc	. Power and	Machinery	Expense, 194	o ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
			erage 14 mos	
•			72 profit	
•			rms* able	able
Items			farms*	farms*
			1	
Feed per horse, ** lbs.:		7	2010	3 E 17 E
Grain			6.0.5 1819	1535
Hay			120 3579	3703
Fodder and stover	-		523 330	542
Feed costs per horse:			20 F 2	
Grain	Ċ	<b>\$</b> 1	4.24 \$16:26	\$13.74
Roughage	Ψ		2.14 10.61	
Pasture	-		4.28 3.82	
TOTAL FEED COSTS	\$	\$7	\$0.66 \$30.69	
, , , , , , , , , , , , , , , , , , , ,	Ψ	Ψ.	.0.00	1~,5
Number of work horses	-		3.7 4.4	3.6
Number of colts			1.1 .9	1.4
<b>2</b> 2.200		100		777.0
Crop acres per farm***			04.5 141.1	
Tractor and horse exp. per crop acre***		3	\$2.64 \$2.12	
Crop and general mach. exp. per crop ac	res TT		1.00 .85	.98

<sup>\*</sup>Three farms did not have horses.

<sup>\*\*</sup>Two colts equal one horse.

<sup>\*\*\*</sup>Seventy-five farms.

Factors of Cost and Returns from Dairy Cows, 1940 10 farms Your Average 10 farms farm of 39 highest in lowest in farms returns returns above feed above feed Items Pounds of butterfat per cow. 225 283 164 Feeds per cow, lbs.: Corn 615 1.043 439 744 Small grain 684 635 Com. feeds - under 25% protein 35 39 9 Com. feeds - over 25% protein 87 153 62 Legume hay 2704 2618 2824 Other hay 1143 11.01 1139 Fodder and stover 260 589 532 Total concentrates 1431 18.70 1254 Total dry roughage 4293 4185 4432 Silage 4185 5216 2336 Total digestible nutrients\* 3873 4415 3497 T.D.N. per lb. B.F. 17.6 1.5.5 21.2 % T.D.N. that is protein 12.7 12.6 12.8 Feed cost per cow: \$17.70 \$11.54 Concentrates \$13.46 Roughages 16.34 17.90 14.66 Pasture 5.25 5.81 6.22 TOTAL FEED COSTS \$40.85 \$35.61 \$32.42 Value of produce per cow: B.F. sales \$61.47 \$89.12 \$40.83 Dairy produce used in house 5.33 4.57 7.78 Milk to livestock 13.39 15.30 9.54 Net increases in value of cows 1.67 2.81 -.20 TOTAL VALUE PRODUCED \$82.86 \$1.11.80 \$57.95 RETURNS ABOVE FEED COST PER COW \$47.25 \$70.95 \$25.53 RETURNS FOR \$100 OF FEED \$242 \$288 \$191 Price received per 1b. B.F. sold As manufacturing cream (cents) 32.0 31.1 As mkt. mk. & cm. & mk. for cheese (cts.) 39.7 40.9 33.8 Feed cost per 1b. B.F. (cents) 16.1 14.2 19.7 % fall freshening 47.0 56.2 31.4 Number of dairy cows\*\* 11.4 13.6 17.2

<sup>\*</sup>Not including nutrients received from pasture.

<sup>\*\*</sup>All dairy cows which have at some time in the past freshened are included in the dairy herd, and affect the average number of cows used in computing this table. There is some variation in the number of months of dry period per cow; however, this variation is small for the majority of farms.

25	Your	Average	10 farms	10 farms
:	farm	of 38	highest in	lowest in
		farms*	returns	returns
Items			above feed	above feed
Feeds per head, lbs.:	80.4			== (
Concentrates		278	195	285
Hay and fodder		1741	1955	1.561
Silage		1248	: 1172	1079
Whole milk		577	575	809
Skim milk		1396	1239	2078
Feed cost per head:			6	
Concentrates	\$	\$ 2.54	\$ 1.91	\$ 2.62
Roughages		5.51	4.57	5.35
Milk		9.94	9.41	14.38
Pasture		2.20	1.87	2.43
TOTAL FEED COSTS	\$	\$20.19	\$17.76	\$24.78
Net inc. in value of other dairy cattle	\$	\$30.60	\$41.80	\$22.38
	1	. ,		
PETURNS ABOVE FEED COST PER HEAD	\$	\$10.41	\$24.04	\$-2.40
RETURNS FOR \$100 OF FEED .	\$	\$168	. \$242	\$100
Number of head of other dairy cattle		11.5	9.1	13.1
				<del></del>
Feed Costs and Returns	s from All	Dairy Catt	ile	
Feed Costs and Returns				10 farms
	Your	Average	10 farms	10 farms
		Average of 39	10 farms highest in	lowest in
Feed Costs and Returns	Your	Average	10 farms highest in returns	lowest in returns
Feed Costs and Returns  Items	Your	Average of 39	10 farms highest in	lowest in returns
Feed Costs and Returns  Items Feeds per animal unit, lbs.:	Your	Average of 39 farms	10 farms highest in returns above feed	lowest in returns above feed
Feed Costs and Returns  Items Feeds per animal unit, 1bs.: Concentrates	Your	Average of 39 farms	10 farms highest in returns above feed	lowest in returns above feed
Feed Costs and Returns  Items Feeds per animal unit, lbs.: Concentrates Hay and fodder	Your	Average of 39 farms 1162 3960	10 farms highest in returns above feed 1414 4179	lowest in returns above feed
Feed Costs and Returns  Items Feeds per animal unit, 1bs.: Concentrates	Your	Average of 39 farms	10 farms highest in returns above feed 1414 4179	lowest in returns above feed
Items  Items Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage	Your	Average of 39 farms 1162 3960	10 farms highest in returns above feed 1414 4179	lowest in returns above feed
Feed Costs and Returns  Items Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage  Feed cost per animal unit:	Your	Average of 39 farms 1162 3960 3562	10 farms highest in returns above feed  1414 4179 5064	lowest in returns above feed 1215 4414 1456
Feed Costs and Returns  Items Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage  Feed cost per animal unit: Concentrates	Your farm	Average of 39 farms  1162 3960 3562	10 farms highest in returns above feed 1414 4179 5064	lowest in returns above feed 1215 4414 1456
Items  Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage  Feed cost per animal unit: Concentrates Roughages	Your farm	Average of 39 farms  1162 3960 3562  \$10.95 14.47	10 farms highest in returns above feed  1414 4179 5064  \$13.60 16.25	lowest in returns above feed 1215 4414 1456 \$11.26 13.81
Feed Costs and Returns  Items Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage  Feed cost per animal unit: Concentrates	Your farm	Average of 39 farms  1162 3960 3562  \$10.95 14.47 5.31	10 farms highest in returns above feed 1414 4179 5064	lowest in returns above feed 1215 4414 1456
Items  Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage  Feed cost per animal unit: Concentrates Roughages Pasture TOTAL FEED COSTS	Your farm	Average of 39 farms  1162 3960 3562  \$10.95 14.47	10 farms highest in returns above feed  1414 4179 5064  \$13.60 16.25 4.75	lowest in returns above feed 1215 4414 1456 \$11.26 13.81 5.90
Items Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage  Feed cost per animal unit: Concentrates Roughages Pasture TOTAL FEED COSTS  Value of produce per animal unit:	Your farm	Average of 39 farms  1162 3960 3562  \$10.95 14.47 5.31 \$30.73	10 farms highest in returns above feed  1414 4179 5064  \$13.60 16.25 4.75 \$34.60	lowest in returns above feed 1215 4414 1456 \$11.26 13.81 5.90 \$30.97
Items  Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage  Feed cost per animal unit: Concentrates Roughages Pasture TOTAL FEED COSTS  Value of produce per animal unit: Dairy products	Your farm	Average of 39 farms  1162 3960 3562  \$10.95 14.47 5.31 \$30.73	10 farms highest in returns above feed  1414 4179 5064  \$13.60 16.25 4.75 \$34.60	lowest in returns above feed  1215 4414 1456  \$11.26 13.81 5.90 \$30.97
Items  Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage  Feed cost per animal unit: Concentrates Roughages Pasture TOTAL FEED COSTS  Value of produce per animal unit: Dairy products Net increase in value of dairy cattle	Your farm	Average of 39 farms  1162 3960 3562  \$10.95 14.47 5.31 \$30.73	10 farms highest in returns above feed  1414 4179 5064  \$13.60 16.25 4.75 \$34.60  \$67.86 22.98	lowest in returns above feed  1215 4414 1456  \$11.26 13.81 5.90 \$30.97
Items  Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage  Feed cost per animal unit: Concentrates Roughages Pasture TOTAL FEED COSTS  Value of produce per animal unit: Dairy products	Your farm	Average of 39 farms  1162 3960 3562  \$10.95 14.47 5.31 \$30.73	10 farms highest in returns above feed  1414 4179 5064  \$13.60 16.25 4.75 \$34.60	lowest in returns above feed  1215 4414 1456  \$11.26 13.81 5.90 \$30.97
Items  Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage  Feed cost per animal unit: Concentrates Roughages Pasture TOTAL FEED COSTS  Value of produce per animal unit: Dairy products Net increase in value of dairy cattle	Your farm	Average of 39 farms  1162 3960 3562  \$10.95 14.47 5.31 \$30.73	10 farms highest in returns above feed  1414 4179 5064  \$13.60 16.25 4.75 \$34.60  \$67.86 22.98	lowest in returns above feed  1215 4414 1456  \$11.26 13.81 5.90 \$30.97
Items  Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage  Feed cost per animal unit: Concentrates Roughages Pasture TOTAL FEED COSTS  Value of produce per animal unit: Dairy products Net increase in value of dairy cattle TOTAL VALUE PRODUCED	Your farm	Average of 39 farms  1162 3960 3562  \$10.95 14.47 5.31 \$30.73  \$50.67 18.00 \$68.67	10 farms highest in returns above feed  1414 4179 5064  \$13.60 16.25 4.75 \$34.60  \$67.86 22.98 \$90.84	lowest in returns above feed  1215 4414 1456  \$11.26 13.81 5.90 \$30.97

<sup>\*</sup>One farmer having both a dairy and a beef herd used a beef bull and included all the young stock in the beef herd.

Factors of Cost and Retur	ns from Dual-	Purpose C	ows, 1940_	
20000250	Your	Average	8 farms	8 farms
•	farm	of 31	highest in	lowest in
6		farms	returns	returns
Items	ž 19	ac ()/ac 220 m	above feed	
1 0 cm 5				
Pounds of butterfat per cow		187	222	152
Feeds per cow, lbs.:				
Corn		535	475	364
Small grain		546	293	715
		35	17	2
Com. feeds - under 25% protein			37	27
Com. feeds - over 25% protein	<del></del>	42	51	21
Legume hay		2727	2564	3176
Other hay		843	738	1029
		706	618	547
Fodder and stover		. 700	010	0-21
Total concentrates		1158	822	13.08
Total dry roughage		4276	3920	4752
		3665	4788	4673
Silage		. 5005	4750	4070
Total digestible nutrients*		3561	3316	3945
		19.6	15.2	26.3
T.D.N. per lb. B.F.		-		12.9
% T.D.N. that is protein		12.8	12.2	12.9
Feed cost per cow:				٨
Concentrates	\$	\$10.69	\$ 7.69	\$10.27
The state of the s	Ψ	15.51	15.73	18.63
Roughages				
Pasture	A	5.87	5.80	5.82
TOTAL FEED COSTS	ა	\$32.07	\$29.22	\$34.72
Value of produce per cow:	±	-		A==:
B.F. sales	\$	\$47.75	\$57.69	\$39.61
Dairy produce used in house		6.47	8.64	4.75
Milk to livestock		12.04	13.22	9.11
:Net increases in value of cows		1.97	<u>4.16</u>	46
TOTAL VALUE PRODUCED	\$	_ \$68.23	\$83.71	\$53.01
DOMESTIC ADOLES THE COOR DID COU	ф	000 20	ĊE4_40	47.0 00
RETURNS ABOVE FEED COST PER COW	φ	\$36.16	\$54.49	\$18.29
RETURNS FOR \$100 OF FEED	\$	\$232	\$309	\$155
TENTONNO FOR \$1,000 OF EEED.	. Ψ	_	Ψ003	Ψ
Price received per 1b. B.F. sold				
As manufacturing cream (cents)		30.7	30.4	31.0
As mkt. mk. & cm. & mk. for cheese (	ats.)	34.6	-	_
THE MILES OF CHIEF TO TOTOGO (		_ 01.0	5F	
Feed cost per 1b. B.F. (cents)		17.8	13.3	23.7
			y 8 * y	
% fall freshening		47.2	50.0	45.3
		*		*
Number of dual-purpose cows		_ 14.4	15.4	15.6

<sup>\*</sup>Not including nutrients received from pasture.

MARKET THE PARTY OF THE PARTY PARTY.

Feed Costs and Returns from	Your	Average		8 farms
	farm	of <b>3</b> 0	highest in	
· ·		farms*	returns	returns
Items		1	above feed	above feed
Feeds per head, lbs.:		5 0 1 T	5.05	
Concentrates		395	365	534
Hay and fodder		1452	1216	1.474
Silage	<del></del>	986	444	1429
Whole milk		. 283	271	338
Skim milk		1339	1534	1085
Took neet man hand.				
Feed cost per head: Concentrates	\$	\$3.57	\$3.35	\$4.76
	Ψ	4.60	φ <b>3.</b> 61	5.35
Roughages		•		6.76
Milk		6.11	6.34	
Pasture	<u> </u>	2.25	2.59	2.05
TOTAL FEED COSTS	\$	\$16.54	\$15.89	\$18.92
Net increase in value	\$	\$27.05	\$37.35	\$18.62
THE PART OF THE PA			m3 4.6	
RETURNS ABOVE FEED COST PER HEAD	\$	10.51	21.46	30
RETURNS FOR \$100 OF FEED	\$	\$174	\$244	\$100
No. of head other dual-purpose cattle  Feed Costs and Returns f				39.7 8 farms
Feed Costs and Returns f	rom All Dua Your farm		Cattle 8 farms highest in returns	8 farms lowest in returns
	Your	l-Purpose Average of 31	Cattle 8 farms highest in	8 farms lowest in
Feed Costs and Returns f	Your	l-Purpose Average of 31	Cattle 8 farms highest in returns	8 farms lowest in returns
Feed Costs and Returns f  Items  Feeds per animal unit, lbs.:	Your	l-Purpose Average of 31 farms	Cattle 8 farms highest in returns above feed	8 farms lowest in returns above feed
Feed Costs and Returns f  Items  Feeds per animal unit, lbs.: Concentrates	Your	1-Purpose Average of 31 farms	Cattle 8 farms highest in returns above feed	8 farms lowest in returns above feed
Feed Costs and Returns f  Items  Feeds per animal unit, lbs.: Concentrates Hay and fodder	Your	1-Purpose Average of 31 farms	Cattle 8 farms highest in returns above feed  997 3530	8 farms lowest in returns above feed 1024 3862
Feed Costs and Returns f  Items  Feeds per animal unit, lbs.: Concentrates	Your	1-Purpose Average of 31 farms	Cattle 8 farms highest in returns above feed	8 farms lowest in returns above feed
Feed Costs and Returns f  Items  Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage	Your	1-Purpose Average of 31 farms	Cattle 8 farms highest in returns above feed  997 3530	8 farms lowest in returns above feed 1024 3862
Feed Costs and Returns f  Items  Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage  Feed cost per animal unit:	Your farm.	l-Purpose Average of 31 farms 1002 3706 2864	Cattle 8 farms highest in returns above feed  997 3530 3426	8 farms lowest in returns above feed 1024 3862 4004
Items  Feed Costs and Returns f  Items  Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage  Feed cost per animal unit: Concentrates	Your	1-Purpose Average of 31 farms  1002 3706 2864	Cattle 8 farms highest in returns above feed  997 3530 3426  \$8.95	8 farms lowest in returns above feed 1024 3862 4004
Items  Feed Costs and Returns f  Items  Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage  Feed cost per animal unit: Concentrates Roughages	Your farm.	1-Purpose Average of 31 farms  1002 3706 2864 \$9.15 12.64	Cattle 8 farms highest in returns above feed  997 3530 3426  \$8.95 13.01	8 farms lowest in returns above feed 1024 3862 4004
Feed Costs and Returns f  Items  Feeds per animal unit, lbs.:     Concentrates     Hay and fodder     Silage  Feed cost per animal unit:     Concentrates     Roughages     Pasture	Your farm.	1-Purpose Average of 31 farms  1002 3706 2864 \$9.15 12.64 5.20	Cattle 8 farms highest in returns above feed  997 3530 3426  \$8.95 13.01 5.12	8 farms lowest in returns above feed 1024 3862 4004 \$9.39 15.20 5.22
Items  Feed Costs and Returns f  Items  Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage  Feed cost per animal unit: Concentrates Roughages	Your farm.	1-Purpose Average of 31 farms  1002 3706 2864 \$9.15 12.64	Cattle 8 farms highest in returns above feed  997 3530 3426  \$8.95 13.01	8 farms lowest in returns above feed 1024 3862 4004
Feed Costs and Returns for the state of the	Your farm.	1-Purpose Average of 31 farms  1002 3706 2864 \$9.15 12.64 5.20	Cattle 8 farms highest in returns above feed  997 3530 3426  \$8.95 13.01 5.12	8 farms lowest in returns above feed 1024 3862 4004 \$9.39 15.20 5.22
Feed Costs and Returns for stand Returns for stand Returns for stand Returns for standard Ret	Your farm.	1-Purpose Average of 31 farms  1002 3706 2864  \$9.15 12.64 5.20 \$26.99	Cattle  8 farms highest in returns above feed  997 3530 3426  \$8.95 13.01 5.12 \$27.08	8 farms lowest in returns above feed  1024 3862 4004  \$9.39 15.20 5.22 \$29.81
Feed Costs and Returns f  Items  Feeds per animal unit, lbs.:     Concentrates     Hay and fodder     Silage  Feed cost per animal unit:     Concentrates     Roughages     Pasture	Your farm.	1-Purpose Average of 31 farms  1002 3706 2864  \$9.15 12.64 5.20 \$26.99	Cattle 8 farms highest in returns above feed  997 3530 3426  \$8.95 13.01 5.12 \$27.08	8 farms lowest in returns above feed  1024 3862 4004  \$9.39 15.20 5.22 \$29.81
Feed Costs and Returns for stand Returns for stand Returns for stand Returns for standard Ret	Your farm.	1-Purpose Average of 31 farms  1002 3706 2864  \$9.15 12.64 5.20 \$26.99	Cattle  8 farms highest in returns above feed  997 3530 3426  \$8.95 13.01 5.12 \$27.08	8 farms lowest in returns above feed  1024 3862 4004  \$9.39 15.20 5.22 \$29.81
Feed Costs and Returns f  Items  Feeds per animal unit, lbs.:     Concentrates     Hay and fodder     Silage  Feed cost per animal unit:     Concentrates     Roughages     Pasture	Your farm.	1-Purpose Average of 31 farms  1002 3706 2864  \$9.15 12.64 5.20 \$26.99  \$32.77 23.27	Cattle 8 farms highest in returns above feed  997 3530 3426  \$8.95 13.01 5.12 \$27.08	8 farms lowest in returns above feed  1024 3862 4004  \$9.39 15.20 5.22 \$29.81  \$22.19 21.18
Feed Costs and Returns for the second state of	Your farm.	1-Purpose Average of 31 farms  1002 3706 2864  \$9.15 12.64 5.20 \$26.99  \$32.77 23.27 \$56.04	Cattle 8 farms highest in returns above feed  997 3530 3426  \$8.95 13.01 5.12 \$27.08  \$41.11 30.40 \$71.51	8 farms lowest in returns above feed  1024 3862 4004  \$9.39 15.20 5.22 \$29.81  \$22.19 21.18 \$43.37
Feed Costs and Returns f  Items  Feeds per animal unit, lbs.:     Concentrates     Hay and fodder     Silage  Feed cost per animal unit:     Concentrates     Roughages     Pasture     TOTAL FEED COSTS  Value of produce per animal unit:     Dairy products     Net increase in value     TOTAL VALUE PRODUCED	\$\$ \$\$ \$\$	1-Purpose Average of 31 farms  1002 3706 2864  \$9.15 12.64 5.20 \$26.99  \$32.77 23.27 \$56.04 \$29.05	Cattle 8 farms highest in returns above feed  997 3530 3426  \$8.95 13.01 5.12 \$27.08  \$41.11 30.40 \$71.51	8 farms lowest in returns above feed  1024 3862 4004  \$9.39 15.20 5.22 \$29.81  \$22.19 21.18 \$43.37  \$13.56

<sup>\*</sup>One farmer having both a dual-purpose and a beef herd used a beef bull and included all the young stock in the beef herd.

Feed Costs and Returns f	Your farm	Average of all farms	Farms	Farms lowest in returns
Items		larms		above feed
Beef breeding herd: no. of farms:		11	5	5
Feeds per animal unit, lbs.:		•		
Concentrates		1168	899	1.523
Legume hay		2209	1885	2756
Other hay		664	621	662
Fodder and stover		312	120	292
Silage		3314	2300	4827
Skim milk*		363	283	1.39
Whole milk*		38	34	13
Feed cost per animal unit:			4 **	
Concentrates	\$	\$10.20	\$ 7.90	\$13.28
Roughages	Ψ	13.01	10.54	16.68
Milk		1.09	.93	•37
Pasture		6.85	6.15	7.07
TOTAL FEED COSTS	¢	\$3115	\$25.52	\$37.40
TOTAL FEED, COOLS	Ψ	_ φου•το	Ψ20•02	φ <b>ο / •</b> 4:Ο
Value of produce per animal unit:		<b>.</b>	Å	A
Dairy products	\$	\$4.16	\$5.79	\$3.37
Net increase in value of animals		42.35	<u>53.32</u>	<u>31.07</u>
TOTAL VALUE PRODUCED	ফ <u></u>	_ \$46.51	\$59.11	\$34.44
RETURNS ABOVE FEED COST PER ANIMAL UNIT	\$	\$15.36	\$33.59	\$-2.96
RETURNS FOR \$100 OF FEED	\$	_ \$163	\$231	\$96
Number of cows and herd bulls		14.8	17.2	15.1
Number of Animal Units in the Herd		29.0	29.7	31.2
Feeder cattle: no. of farms:		5		
Feeds per cwt. beef produced, lbs.:				
Corn		324		
Small grain		- 38		
Com. feeds - under 25% protein		_ 0 .		
		71		
		282		
Legume hay		-		
Other hay Fodder and stover		_ 62		
rodder and stover		_ 0		
Total concentrates		_ 433		
Total dry roughages		344		
Silage		_ 883		
				•
Feed cost per cwt. beef produced:		A .		
Feed cost per cwt. beef produced: Concentrates	\$	\$4.29		
Concentrates	\$	_ \$4.29 2.10		
Concentrates Roughages	\$	2.10	a.	
Concentrates	\$ \$		,	
Concentrates Roughages Pasture TOTAL FEED COSTS	\$\$ \$\$	2.10 .23		
Concentrates Roughages Pasture TOTAL FEED COSTS Net increase in value of feeders	\$	2.10 <u>.23</u> \$6.62 \$9.08		
Concentrates Roughages Pasture	\$	2.10 .23 \$6.62		
Concentrates Roughages Pasture TOTAL FEED COSTS  Net increase in value of feeders  RETURNS ABOVE FEED COST PER CWT.BEEF PROD.  RETURNS FOR \$100 OF FEED	\$	2.10 .23 \$6.62 \$9.08 \$2.46 \$149		
Concentrates Roughages Pasture TOTAL FEED COSTS Net increase in value of feeders RETURNS ABOVE FEED COST PER CWT.BEEF PROD.	\$	2.10 .23 \$6.62 \$9.08 \$2.46		

<sup>\*</sup>Several farmers had both dairy or dual-purpose cows and beef cows and fed considerable amounts of milk produced by the dairy herd to beef calves.

Items	s and Return	Your farm	Average of all farms		Farms lowest in returns above feed
Hogs: no. of farms:			75	15	15
Feed per cwt. hogs produced, 11	os.:				nuo-G-1
Corn			314	247	484
Small grain			105	72	129
Com. feeds - under 25% prote	ein		_ 3	5	3
Com. feeds - over 25% prote	ein		6	<u>6</u>	8 10
Total concentrates			428	330	624
Skim milk, buttermilk and wh	ney		273	191	430
			- ,		
Feed cost per cwt. hogs produce	ed:				
Concentrates	**	\$	_ \$3 <b>.7</b> 8	\$2.93	\$5.52
Skim milk			39	. 29	• 59
Pasture			22		. 25
TOTAL FEED COSTS		\$	_ \$4.39	\$3.42	\$6.36
Set increase in value per cwt.	hogs prod.	\$	\$5.57	\$5.88	\$5.48
RETURNS ABOVE FEED COST PER CWI	L. HOGS PROD.	S	\$1.18	\$2.46	\$88
		Т	_ +2.20	,	
RETURNS FOR \$100 OF FEED	E	\$	\$135	\$173	\$92
rice received per cwt. hogs so	o1d	\$	\$5.27	. \$5.48	\$5.09
	*			77.0	97 % 173
otal no. of litters raised	A		_ 11.9	11.6	11.3
No. of pigs weaned per litter			_ 6.5	6.2	6.3
Pounds of hogs produced			_ 17521	16941	15108
Shara (fam. 61 ash) 6 fam	, 1		07	10	: 10
Sheep (farm flock): no. of far	ms:		21	10	10
Feeds per head*, lbs.: Concentrates	å ,		48	29	61
		<del>:</del>	- 40 177	171	195
Legume hay					51
Other hay	w s		_ 53	55	
Fodder and stover	3 4		_ 30	44	18
Silage			_ 109	104	118
Feed cost per head:					
Concentrates		Ġ	\$ .45	\$ .27	\$ .56
Roughages		Ψ	.89	.90	.94
			95	1.04	.87
Pasture . TOTAL FEED COSTS	a 2.5	φ			\$2.37
TOTAL FEED COSTS		Φ	_ \$2.29	\$2.21	φ2.01
Value of produce per head:					
		\$	\$2.01	\$2.19	\$1.83
		T		5.84	3.01
Wool	een		21 215		
Wool Net increase in value of sh	еер	Ś	\$6.45		\$4.84
Wool Net increase in value of sh TOTAL VALUE PRODUCED	. •	\$\$	\$6.46	\$8.03	\$4.84
Wool Net increase in value of sh TOTAL VALUE PRODUCED	. •	\$			\$4.84
Wool Net increase in value of sh TOTAL VALUE PRODUCED RETURNS ABOVE FEED COST PER HE	. •	\$\$	\$6.46 \$4.17	\$8.03	
Wool Net increase in value of sh TOTAL VALUE PRODUCED RETURNS ABOVE FEED COST PER HE RETURNS FOR \$100 OF FEED	. •	\$ \$	\$6.46 \$4.17 \$305	\$8.03 \$5.82 \$389	\$2.47 \$222
Wool Net increase in value of sh TOTAL VALUE PRODUCED RETURNS ABOVE FEED COST PER HE RETURNS FOR \$100 OF FEED Value per lamb sold	. •	\$ \$ \$	\$6.46 \$4.17 \$305 \$6.90	\$8.03 \$5.82 \$369 \$7.36	\$2.47 \$222 \$6.44
Wool Net increase in value of sh TOTAL VALUE PRODUCED  RETURNS ABOVE FEED COST PER HE RETURNS FOR \$100 OF FEED Value per lamb sold Price per lb. wool sold (cts.)	AD	\$ \$ \$ \$	\$6.46 \$4.17 \$305 \$6.90 32.0	\$8.03 \$5.82 \$389 \$7.36 31.7	\$2.47 \$222 \$6.44 32.4
Wool Net increase in value of sh TOTAL VALUE PRODUCED  RETURNS ABOVE FEED COST PER HE RETURNS FOR \$100 OF FEED Value per lamb sold Price per 1b. wool sold (cts.) Number of ewes kept for lambin	AD	\$ \$ \$	\$6.46 \$4.17 \$305 \$6.90 32.0	\$8.03 \$5.82 \$389 \$7.36 31.7 20.7	\$2.47 \$222 \$6.44 32.4 41.7
Wool Net increase in value of sh TOTAL VALUE PRODUCED  RETURNS ABOVE FEED COST PER HE RETURNS FOR \$100 OF FEED  Value per lamb sold  Price per lb. wool sold (cts.)  Number of ewes kept for lambin  % lamb crop	AD	\$ \$ \$	\$6.46 \$4.17 \$305 \$6.90 32.0 32.0 113.1	\$8.03 \$5.82 \$389 \$7.36 31.7 20.7 118.8	\$2.47 \$222 \$6.44 32.4 41.7 106.5
Wool Net increase in value of sh	AD	\$ \$ \$	\$6.46 \$4.17 \$305 \$6.90 32.0	\$8.03 \$5.82 \$389 \$7.36 31.7 20.7	\$2.47 \$222 \$6.44 32.4 41.7

<sup>\*</sup>Two lambs under 6 months of age considered as one head.

Feed Costs and Returns from  Items	Your farm	Average of all farms	Farms highest in returns above feed	returns
			\ r a	
Chickens: no. of farms:	<del></del>	69	14	14
Feed per hen, los.: Concentrates Skim milk		· 100 · 39	113 37	12 <b>1</b> <u>4</u> 2
Feed cost per hen:     Concentrates     Skim milk, buttermilk and whey     TOTAL FEED COST	\$	\$1.09 .06 \$1.15	\$1.29 .06 \$1.35	\$1.27 06 \$1.33
Value of produce per hen:  Eggs sold and used in house  Net increase in value of chickens  TOTAL VALUE PRODUCED	\$ \$	\$1.53 .64 \$2.17	\$2.10 1.45 \$3.55	\$1.05 .39 \$1.44
RETURNS ABOVE FEED COST PER HEN	\$	\$1.02	\$2.20	\$ .11
RETURNS FOR \$100 OF FEED	\$	\$210	\$295	\$116
Price received per doz. eggs sold (cts.) Eggs laid per hen No. of hens % of hens that are pullets		14.7 120 110 69	15.8 155 113 73	.14•1 87 98 66
Turkeys: no. of farms:		5		
Feed per cwt. turkeys produced, lbs.: Grain Com. feeds - under 25% protein Com. feeds - over 25% protein		323 1 188		
Total concentrates Skim milk		512 0	1	
Feed cost per cwt. turkeys produced	\$	\$7.93		
Value of produce per cwt. turkeys prod.:  Eggs and poults  Net increases in turkeys  TOTAL VALUE PRODUCED	\$\$	\$2.30 12.86 \$15.16		3
		d= ==	* * * *, * *	
RETURNS ABOVE FEED COST PER CWT. TURKEYS PRODUCED	\$	\$7.23		
	\$	\$7.23 \$194		
PRODUCED	\$			

.Dead soo as bemaliamer upa la adiama d relam admai ov?

Farm Produce Used in House and House Rental, 1940

	Quantities				Talent	Value					
Items	Your farm	Average 75 farms		15 least profit- able farms	Your farm	Average 75 farms		15 least profit- able farms			
Whole milk		843 qts.	934	783 \$		\$25.48	\$27.61	\$24.45			
Skim milk		758 qts.	789	523		2.47	2.59	1.70			
Cream		390 pts.		309		36.10	37.08	29.61			
Farm-made butter		28 lbs.	1	41		9.47	.27	13.85			
Eggs		163 doz.	177	1.58		26.85	29.29	26.04			
Cattle		358 lbs.		442		21.98	23.48	27.57			
Hogs		571 lbs.	504	506		30.74	28.06	26.58			
Sheep		3 lbs.	0	12		.21	0	.70			
Poultry		88 lbs.	95	99		10.02	11.14	11.51			
Potatoes		23 bu.	25	24		14.07	14.53	14.52			
Vegetables & fruits		<b>-</b> .	_			. 56.20	68.56	44.18			
Farm fuel		12 cds.	12	13		. 51.77	47.37	52.43			
Rental val. of house		-	_	-		186.78	214.53	180.11			
Misc.(wool, honey, etc.	)	-		-		.24	1.20	0			
Total				\$	<u> </u>	\$472.38	\$505.71	\$453.25			

Household and Personal Expenses for Those Farms Which Kept Complete Accounts of these Expenses, 1940 9 least Your Average 9 most profitof 43 profitfarm able able . farms Items farms farms Number of persons - family 4.1 3.7 3.6 Number of persons, (Family 3.0 2.9 3.2 adult equivalent (Other\* • 5 .8 . 6 \$189 \$217 \$260 Food and meals bought Operating and supplies 63 42 68 87 144 Clothing and clothing materials 105 Personal care, personal spending 57 45 90 76 Furnishings and equipment 57 106 Education, recreation and development 37 47 11 53 43 Medical care and health insurance 59 64 48 Church, welfare, and gifts 44 77 68 60 Personal share of auto expense 13. ... 11 Household share of elect. & gas eng. exp. 11 58 58 71 H.H.& pers.shr.of new auto, gas eng. & motors bought 48 14 Life insurance and other investments 49 \$819 \$830 \$964 Total household and personal cash expenses \$193 \$235 \$266 Food furnished by the farm 43 41 Fuel furnished by the farm 48 163 182 208 House rental \$1481 \$1216 \$1295 Total household and personal expenses

<sup>\*</sup>Hired help or others boarded.

Summary of Farm Earnings by Areas, 1940 14 farms in Deer-61 farms in Bear Creek Area Houston county FARM EXPENSES \$31 \$14 Horses bought Dairy and dual-purpose cows bought 19 Other dairy and dual-purpose cattle bought 87 36 Beef cattle bought (including feeders) 152 19 Hogs bought 108 33 Sheep bought (including feeders) 24 6 Poultry bought (including turkeys) 27 80 Misc. crop expenses 167 124 Feed bought 397 468 Power mach. (farm.share) (new) 218 106 Power mach. (farm share) (upkeep) 236 199 Custom work hired 97 78 Crop and general mach. (new) 97 75 Crop and general mach. (upkeep) 40 21 Livestock equipment (new) 55 54 Livestock equipment (upkeep) 1.0 . 8 Misc. livestock expense 46 26 Buildings and fencing (new) 179 191 Buildings and fencing (upkeen) 124 70 Hired labor 246 208 Taxes 275 259 Insurance 1 2 General farm 20 11 (1) Total farm purchases \$2618 \$2129 (2) Decrease in farm capital (3) Board furnished hired labor 68 86 (4) Interest on farm capital 1045 830 (5) Unpaid family labor 257 316 (6) Total farm expenses (Sum of (1) to (5) \$3988 \$3361 FARM RECEIPTS Horses \$28 \$37 Dairy and dual purpose cows 84 138 Dairy products 766 762 Other dairy and dual-purpose cattle 239 296 Beef cattle (including feeders) 188 122 Hogs 1007 935 Sheep and wool (including feeders) 230 51 Poultry (including turkeys) 61 384 Eggs 193 158 Corn 60 21 Small grain 206 19 Other crops 204 180 Power machinery sold 67 31 Crop and gen. mach. sold 19 25 Misc. 178 115 Income from work off the farm 274 208 Agricultural adjustment payments 348 199 (7) Total farm sales \$4152 \$3681 (8) Increase in farm capital 809 420 (9) Farm prod. used in house + house rent 498 466 (10) Total farm receipts (7) + (8) + (9) \$5459 \$4567 (6) Total farm expenses 3988 3361 \$1206 (11) Operator's labor earnings (10) - (6) \$1471

Distribution of Ac		on of Acres	Crop Y	
	Deer-Bear	Houston	Deer-Bear	Houston
	Creek Area	county	Creek Area	county
77				
Flax	8.3	• 6	7.8 bu.	9.4 bu.
Barley	8.9	5.6	22.1 bu.	35.6 bu.
Winter wheat	2.0	• 6	1.0.0 bu.	21.0 bu.
Spring wheat	2.2	.9	14.6 bu.	16.3 bu.
Oats and barley	16.2	13.5	42.5 bu.	·37.1 bu.
Oats and wheat	, 2.9	1.9	40.1 bu.	41.1. bu.
Oats	19.0	10.5	29.8 bu.	37.7 bu.
Rye	0	.1	_	26.5 bu.
Soybeans for grain	11.6	.1	15.3 bu.	17.9 bu.
Miscellaneous	1.6	• 2	_	
Total small grain	72.7	34.0	*	,
			-	CT21 5 Ye
Hybrid seed corn, truck crops	,		2	
etc.	•6	1.0	_	78 30 1
Potatoes	•3	.3	75.0 bu.	93.8 bu.
Corn, grain	31.4	22.0	39.3 bu.	62.1 bu.
Corn, silage	. 7.9	3.8	9.1 tons	10.3 tons
Corn fodder	, 1.0	.1	4.9 tons	6.4 tons
Total cultivated crops	41.2	27.2		
A10.10.1				0.7.4
Alfalfa hay	1.0.9	12.6	1.7 tons	2.1 tons
Red clover hay	1.5	2.0	2.0 tons	1.4 tons
Soybean hay	10.5.	2.0	1.5 tons	2.1 tons
Mixed legumes and non-legumes	.19.8	9.7	1.3 tons	1.6 tons
Legumes for seed	. 0	.1	, ma	To Take
Timothy and/or brome hay	1.8	3.2	1.0 tons	1.2 tons
Timothy seed	.7	0	146.9 lbs.	-
Other annual hav	1.5	.6	.6 tons	1.1 tons
Total tillable land in hay	.46.7	30.2	-	- E
Alfalfa pasture	. 3	•6		
Sweet clover :pasture	•6	2.1	ļ.	
Mix. incl.alf., sw.cl., brome		1.2	l .	
Other legumes and mixtures		4.3		
	12.3			
Sudan grass	.2	.8		
Other tillable pasture	18.8	10.5	-	
Total tillable land in pas	35.4	19.5	-	
Tillable land not cropped	4.0	.8	-	
Total tillable land	200.0	111.7	-	
Wild hay (non-tillable)	. 7	. 4	.8 tons	1.3 ton
Non-tillable pasture	41.9	68.0		
	13.1	17.5		
Timber (not pastured)				
Roads and waste	5.6	7.0		
Farmstead	6.0	3.7	-	
Total acres in farm	267.3	208.3		
% land tillable	74.0	56.0		
% tillable land in high				*
return crops	30.1	37.2	1	

Measures of Farm Organization and Management Efficiency

	<u> </u>	Deer-Bear Creek Area	į <u>.                                </u>	Houston county	
Operator's labor earnings	•	\$1471		\$1206	
Index of crop yields		. 85		103	. I
% tillable land in high re	turn crops	30.1		37.2	5 3
Index of returns for \$100		100		100	
Productive livestock units		18.2		22.3	Ē
Size of business - work un	its	591		506	
Work units per worker		303		254	e: 12
Power, mach., equip, & bld	g. exp. per work uni	t \$1.37		\$1.36	
Work units on crops	â	185	Ŷ.	114	
Work units on productive 1	ivestock	338		340	
Other work units		68		52	
Total number of workers	•	1.9		2.1	
No. of family workers		1.5		1.6	4.0
No. of hired workers		• 4		•5	•
		· · · · · · · · · · · · · · · · · · ·			
	A			*	
	Amount of Liv	estock			··
No. of work horses		4.3		3.4	
No. of colts	•	1.4		•9	
No. of dairy and dual-pury	ose cows	12.5		13.2	
Head of other dairy and du	al-purpose cattle	15.1	* *	16.1	
Head in beef breeding here	1	12.4	* 12	4.9	100
Litters of pigs raised		11.1		12.0	
Pounds of hogs produced		16608		17730	
Head of sheep (farm flock)	)	31.0		9.5	
No, of hens	,	113		100	
Total number of productive % of total productive live are:		42.9 hat		36.9	
Dairy and dual-purpose	cows	. 33.6		39.6	
Other dairy and dual-pu		21.5		23.8	
Beef breeding herd	x + g	13.6	180	6.0	
Feeder cattle	¥	0		1.1	
				0.0	
,		9.0		2.8	
Sheep (farm flock)		9.0 18.6		20.6	ž (6)
,					. *

Summary of Earnings by Years (see	footno	te, pa	ge 29)			
	1935			1.938	1939	1940
No. of farms	40	81	57	55	. 91	75
FARM EXPENSES	· .		*			
Horses bought	መ 4 ገ	ф <b>4</b> о	<b>ሰ</b> ወ <b>ታ</b>	Ø 1717	¢ 0.	@1 m
Cattle bought (including feeders)	\$41	\$42	\$33	\$33	\$25	\$17
Hogs bought	79	114	152	133	80	106
Sheep bought	31	, 51	42	32	45	47
	105	43	1.6	43	31	9
Poultry bought (including turkeys)	27	30	. 19	18	25	70
Misc. crop expenses	99	108	141	145	147	132
Feed bought	184	271	369	253		455
Power mach. (new & exp.) (farm share)	90*	265	410	3 <b>3</b> 6.	373	333
Custom work hired	-	-	- 1		-	81
Crop & general mach. and livestock equip. (new)	.132*	139	180	124	129	147
Crop. & general mach. & livestock equip. (upkeep		36	41	36	35	32
Buildings, fencing, tiling (new)	152	96	128	55	102	. 189
Buildings, fencing, tiling (upkeep)	28	39	37	40	36	. 79
Hired labor	162	167	217	196	183	. 215
Taxes and insurance	193	204	226	236	258	265
General farm	14	19	14	12	9	13
Miscellaneous livestock expense	21	30	55	63	48	30
(1) Total farm purchases	1494	1654	2080	1755	1813	2220
(2) Decrease in farm capital	-	-	-	-	-	-
(3) Board furnished hired labor	88	87	95	78	81	82
(4) Interest on farm capital	638	703	752	761	775	870
(5) Unpaid family labor	156	241	247	244	336	. 305
(6) Total farm expenses (Sum of (1) to (5)	2376	2685	3174	2838	3005	3477
FARM RECEIPTS		(g) ×				
Horses	\$18	\$25	<b>\$</b> 39	\$54	\$48	\$35
Cattle (including feeders)	568	380	656	673	607	547
Dairy products	700	812	919	800	629	763
Hogs .	474	802	920	890	946	949
Sheep	247	159	161	128	152	85
Poultry (including turkeys)	106	142	122	58	137	324
Eggs	136	136	135	162	138	164
Corn .	4.	3	50	7	106	28
Small grain	149	183	113	51	50	54
Other crops	97	102	67	42	50	184
Misc.	69	115	189	142	141	189
Income from work off farm	101	88	137	177	166	220
Agricultural adjustment payments	68	131	149	168	230	226
(7) Total farm sales	2737	3077	3627	3352	3400	3768
(8) Increase in farm capital	160	254	66	50	105	493
(9) Farm produce used in house + house rental	311	361	317		270	472
(10) Total farm receipts (7) + (8) + (9)	3208	3692	4010	3717	3775	4733
(6) Total farm expenses	2376	2685	3174	2838	3005	3477
(11) Operator's Labor earnings (10) - (6)	832	1007	836	879	770	1256
, , , , , , , , , , , , , , , , , , , ,	~					

<sup>\*</sup>Tractor, truck, gas engine and electricity (new & expense) were included with crop and general machinery and livestock equipment in 1935.

Miscallaneous items:   1935   1935   1937   1938   1930   1940   1945   1947   1938   1930   1930   1940   1945   1947   1948   1945   1948	Summary of Miscellaneous I	tems by	y Year	3			M. V. V. V. M.
Crop acres in farm   106.2 100.7 108.7 110.9 107.6 104.5   \$5.5 \$ \$5.5		1935	1936	1937	1938	1939	1940
\$\frac{\phi}{\phi}\$ of till, land in high return crops							
Yield per acre, corn, grain (bu.) Yield per acre, corn, stlage (tons) Yield per acre, barley (bu.) Yield per acre, carn, stlage (tons) Yield per acre, barley (bu.)  Yield per acre, barley (bu.)  30.8 18.1 23.9 25.6 22.8 33.3 Yield per acre, alfalfa (tons)  32.2 20.8 37.0 31.5 32.2 36.4 Yield per acre, alfalfa (tons)  33.2 20.8 37.0 31.5 32.2 36.4 Yield per acre, alfalfa (tons)  33.2 1.8 2.0 2.4 1.5 2.1  Productive livestock units per 100 A.  Productive livestock units per 100 A.  So. of work units So6 550 597 628 644 522 Work units per worker Power, equipment & building exp. per work unit \$.75 \$1.13 \$1.10 \$1.00 \$1.00 \$1.00 \$1.36  No. of work horses No. of colts No. of other dairy & dual-purpose cottle No. of litters of pige No. of litters of pige No. of head of sheep Pounds of butterfat per dairy cow Pounds of butterfat per dual-purpose cow No. of sign per litter No. of sign per litt							12 P
Yield per acre, corn, sitage (tons) Yield per acre, onts (tu.) 10.8 18.1 23.9 26.6 22.8 33.3 Yield per acre, oats (tu.) 33.2 20.8 37.0 31.6 32.2 36.4 Yield per acre, alfalfa (tons) 32.2 1.8 2.0 2.4 1.5 2.1 Productive livestock units per 100 A. 14.9 17.6 17.9 20.1 20.0 21.6 No. of work units 506 550 557 628 646 522 Work units per worker Power, equipment & building exp. per work unit 15.0 10.0 10.0 11.0 11.0 No. of work horses No. of colts No. of colts No. of colts No. of litters of pigs No. of litters of pigs No. of litters of pigs No. of head of sheep No. of pigs per litter No. of pigs per	% of till. land in high return crops	*	36.7	41.7	40.3	35.5	35.9
Yield per acre, corn, sitage (tons) Yield per acre, onts (tu.) 10.8 18.1 23.9 26.6 22.8 33.3 Yield per acre, oats (tu.) 33.2 20.8 37.0 31.6 32.2 36.4 Yield per acre, alfalfa (tons) 32.2 1.8 2.0 2.4 1.5 2.1 Productive livestock units per 100 A. 14.9 17.6 17.9 20.1 20.0 21.6 No. of work units 506 550 557 628 646 522 Work units per worker Power, equipment & building exp. per work unit 15.0 10.0 10.0 11.0 11.0 No. of work horses No. of colts No. of colts No. of colts No. of litters of pigs No. of litters of pigs No. of litters of pigs No. of head of sheep No. of pigs per litter No. of pigs per	Yield per acre. corn. grain (by.)	39.1	30.1	34.8	49.5	57.7	57.8
Yield per acre, barley (bu.)   33.2 20.8 18.1 23.9 25.6 22.8 33.3   Yield per acre, alfalfa (tons)   33.2 20.8 37.0 31.5 32.2 35.8 \$2.2 35.4   Yield per acre, alfalfa (tons)   32.2 1.8 2.0 2.4 1.5 2.1							
Yield per acre, alfalfa (tons)       3.2       1.8       2.0       2.4       1.5       2.1         Productive livestock units       per 100 A.       14.9       17.6       17.9       20.1       20.0       21.6         No. of work units       506       550       557       628       646       522         Work units per worker       506       550       557       628       646       522         No. of work horses       4.4       4.2       4.3       4.0       3.8       5.6         No. of colts       .6       .9       .8       1.0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
Productive livestock units per 100 A.		33.2	20.8	37.0	31.6	32.2	36.4
No. of work units   506   550   597   628   646   522   526   527   628   636   521   265   628   6301   314   340   321   265   628   6301   314   340   321   265   628   6301   314   340   321   265   628   6301   314   340   321   265   628   6301   314   340   321   265   628   6301   314   340   321   265   628   6301   314   340   321   265   6301   314   340   321   265   6301   314   340   321   265   6301   314   340   321   265   6301   314   340   321   265   6301   314   340   321   265   3201   314   314   31.0	Yield per acre, alfalfa (tons)	3.2	1.8	2.0	2.4	1.5	2.1
No. of work units   506   550   597   628   646   522   526   527   628   636   521   265   628   6301   314   340   321   265   628   6301   314   340   321   265   628   6301   314   340   321   265   628   6301   314   340   321   265   628   6301   314   340   321   265   628   6301   314   340   321   265   628   6301   314   340   321   265   6301   314   340   321   265   6301   314   340   321   265   6301   314   340   321   265   6301   314   340   321   265   6301   314   340   321   265   3201   314   314   31.0	Productive livesteel units per 100 A	140	17 C	7 % O	20 i	20 0	27 6
Work units per worker   285   301   314   340   321   283							
No. of work horses							
No. of work horses No. of colts No. of colts No. of colts No. of colts No. of dairy and dual-purpose cows Head of other dairy & dual-purpose cattle No. of litters of pigs No. of litters of pigs No. of head of sheep No.							
No. of colts   6		,	,	,	,	A 1 100 P. D.	
No. of dairy and dual-purpose cows   12.7   13.9   13.7   14.2   14.4   15.0   15.8   17.2   21.2   19.9   21.1   15.9   15.0   15.8   17.2   21.2   19.9   21.1   15.9   20.0   15.8   17.2   21.2   19.9   21.1   15.9   20.0   15.8   17.2   21.2   19.9   21.1   15.9   20.0   15.8   17.2   21.2   19.9   21.1   15.9   20.0   15.8   17.2   21.2   19.9   21.1   15.9   20.0   23.7   30.9   30.2   22.4   13.5   20.0   23.7   30.9   30.2   22.4   13.5   20.0   23.7   30.9   30.2   22.4   13.5   20.0   23.7   30.9   30.2   22.4   13.5   20.0   23.7   30.9   30.2   22.4   13.5   20.0   23.7   30.9   30.2   22.4   13.5   20.0   23.7   30.9   30.2   22.4   23.5   20.0   23.7   30.9   30.2   22.4   23.5   20.0   23.7   30.9   30.2   22.4   23.5   20.0   23.7   30.9   30.2   22.4   23.5   20.0   23.7   30.9   30.2   22.4   23.5   20.0   23.7   20.0							
Head of other datry & dual-purpose cattle No. of litters of pigs Pounds of hogs produced No. of head of sheep No. of head of sheep No. of head of sheep No. of head No. of head of sheep Pounds of butterfat per dairy cow Pounds of butterfat per dairy cow Pounds of butterfat per dual-purpose cow No. of pigs per litter No. of pigs per litter No. of eggs laid per hen No. of eggs laid per hen Price received per lb. of butterfat sold Price received per dozen eggs sold Return above feed cost per: Dairy cow Dual-purpose cow Animal unit in beef breeding herd Cwt. turkeys produced No. of pigs produced Peed cost per: Dairy cow No. of eggs laid per hen No. of e							
No. of litters of pigs Pounds of hogs produced No. of head of sheep No. of pigs per litter No. of pigs per litter No. of pigs per litter No. of eggs laid per hen No.							
Pounds of hogs produced							
No. of head of sheep No. of head of sheep No. of head of sheep No. of head of butterfat per dairy cow Pounds of butterfat per dual-purpose cow No. of pigs per litter No. of pigs per litter No. of pigs per litter No. of eggs laid per hen  Price received per lb. of butterfat sold Price received per cwt. hogs sold Price received per dozen eggs sold  Return above feed cost per:  Dairy cow Dual-purpose cow Animal unit in beef breeding herd Cwt. hogs produced Cwt. hogs produced Cwt. turkeys produced  Ped cost per: Dairy cow Cwt. turkeys produced  No. of eggs laid per hen  26.0 23.7 30.9 30.2 22.4 13.5 103 79 93 100 101 102  189 225 187 187 189 187 189 225 189			,				
No. of hens   103		26-0					
Pounds of butterfat per dairy cow Pounds of butterfat per dual-purpose cow No. of pigs per litter No. of pigs per litter No. of eggs haid per hen Price received per lb. of butterfat sold Price received per cwt. hogs sold Price received per dozen eggs sold Price received per lb. of butterfat sold Price of feed, ear corn (per bu.) Price of feed, bran (per cwt.)			10000 100				
Pounds of butterfat per dual-purpose cow No. of pigs per litter							
No. of pigs per litter No. of pigs per litter No. of eggs laid per hen  6.3 5.6 6.8 6.7 6.1 6.5 No. of eggs laid per hen  95 102 114 118 115 120  Price received per lb. of butterfat sold Price received per cwt. hogs sold Price received per dozen eggs sold  8.30 \$.31 \$.37 \$.30 \$.27 \$.31 Price received per dozen eggs sold  8.30 \$.31 \$.37 \$.30 \$.27 \$.31 Price received per dozen eggs sold  8.30 \$.31 \$.37 \$.30 \$.27 \$.31 Price received per dozen eggs sold  8.30 \$.31 \$.37 \$.30 \$.27 \$.31 Price received per dozen eggs sold  8.30 \$.31 \$.37 \$.30 \$.27 \$.31 Price received per dozen eggs sold  8.30 \$.31 \$.37 \$.30 \$.27 \$.31 Price received per dozen eggs sold  8.30 \$.31 \$.37 \$.30 \$.27 \$.31 Price received per dozen eggs sold  8.30 \$.31 \$.37 \$.30 \$.27 \$.31 Price received per lb. of butterfat sold  8.30 \$.31 \$.37 \$.30 \$.27 \$.31 Price received per lb. of butterfat sold  8.30 \$.31 \$.37 \$.30 \$.27 \$.31 Price received per wt. bogs produced  8.37 \$.30 \$.27 \$.31 Price received per lb. of butterfat sold  8.30 \$.31 \$.37 \$.30 \$.27 \$.31 Price received per lb. of butterfat sold  8.30 \$.31 \$.37 \$.30 \$.27 \$.31 Price received per wt. bogs produced  8.37 \$.30 \$.27 \$.31 Price price in the pick is a single price in the pick in the pick in the pick is a single price in the pick in th							
No. of eggs laid per hen   95   102   114   118   115   120							
Price received per lb. of butterfat sold							
Price received per cwt. hogs sold Price received per dozen eggs sold  21 .18 .18 .18 .15 .15  Return above feed cost per:  Dairy cow Pual-purpose cow Pual-purpose cow Pual-purpose cow Pual-purpose cow Peeder cattle produced Peed cost per:  Dairy cow Pairy cow Pairy cow Pairy cow Peeder cattle produced Peed cost per:  Dairy cow Pairy cow Peeder cattle produced Peeder cattle produced Peeder cattle produced Peeder cattle produced Peed of sheep Peed of sheep Peed of feed, ear corn (per bu.) Price of feed, bran (per cwt.) Peeder cattle produced Perce of feed, bran (per cwt.) Peeder cattle produced Perce of feed, bran (per cwt.)	No. of eggs taid per nen	. 95	102	T7 <del>.4</del>	118	110	120
Return above feed cost per:  Dairy cow  Dual-purpose cow  Animal unit in beef breeding herd  Cwt. feeder cattle produced  Cwt. turkeys produced  Dual-purpose cow  * * * * * * * * * * * * * * * * * * *	Price received per 1b. of butterfat sold	\$.30	\$.31	\$.37	\$.30	\$.27	\$.31 .
Return above feed cost per:  Dairy cow  Dual-purpose cow  Animal unit in beef breeding herd  Cwt. feeder cattle produced  Cwt. hogs produced  Head of sheep (farm flock)  Cwt. turkeys produced  Teed cost per:  Dairy cow  Dual-purpose cow  Animal unit in beef breeding herd  Cwt. thege produced  * * * * * * * * * * * * * * * * * * *		*	9.22	9.01	7.55	6.15	5.37
Dairy cow Dual-purpose cow Animal unit in beef breeding herd Cwt. feeder cattle produced Cwt. hogs produced Head of sheep (farm flock) Cwt. turkeys produced  Feed cost per: Dairy cow Dual-purpose cow Animal unit in beef breeding herd Cwt. turkeys produced  Feed cost per: Cwt. turkeys produced  Feed cost per: Cwt. turkeys produced  Feed cost per: Cwt. feeder cattle produced Cwt. hogs produced  Feed cost per: Cwt. feeder cattle produced Cwt. hogs produced  Feed cost per: Cwt. feeder cattle produced Cwt. hogs produced Cwt. hogs produced Cwt. hogs produced Feed cost per: Cwt. feeder cattle produced Cwt. feeder cattle produced Cwt. hogs produced Feed cost per: Cwt. turkeys produced Feed cost per: Sign 37.53 42.51 34.22 31.16 35.61 Cwt. feeder cattle produced Feed cost per: Cwt. feeder cattle produced Feed cost per: Cwt. turkeys produced Feed cost per: Sign 37.53 42.51 34.22 31.16 35.61 Cwt. feeder cattle produced Feed cost per: Sign 37.53 42.51 34.22 31.16 35.61 The cost per service servi	Price received per dozen eggs sold	.21	.18	.18	.18	.15	.15
Dairy cow Dual-purpose cow Animal unit in beef breeding herd Cwt. feeder cattle produced Cwt. hogs produced Head of sheep (farm flock) Cwt. turkeys produced  Feed cost per: Dairy cow Dual-purpose cow Animal unit in beef breeding herd Cwt. turkeys produced  Feed cost per: Cwt. turkeys produced  Feed cost per: Cwt. turkeys produced  Feed cost per: Cwt. feeder cattle produced Cwt. hogs produced  Feed cost per: Cwt. feeder cattle produced Cwt. hogs produced  Feed cost per: Cwt. feeder cattle produced Cwt. hogs produced Cwt. hogs produced Cwt. hogs produced Feed cost per: Cwt. feeder cattle produced Cwt. feeder cattle produced Cwt. hogs produced Feed cost per: Cwt. turkeys produced Feed cost per: Sign 37.53 42.51 34.22 31.16 35.61 Cwt. feeder cattle produced Feed cost per: Cwt. feeder cattle produced Feed cost per: Cwt. turkeys produced Feed cost per: Sign 37.53 42.51 34.22 31.16 35.61 Cwt. feeder cattle produced Feed cost per: Sign 37.53 42.51 34.22 31.16 35.61 The cost per service servi	Return above feed cost ner:						×
Dual-purpose cow Animal unit in beef breeding herd  Cwt. feeder cattle produced Cwt. hogs produced Head of sheep (farm flock) Hen Cwt. turkeys produced  Teed cost per: Dairy cow Cwt. hogs produced Dual-purpose cow Animal unit in beef breeding herd Cwt. feeder cattle produced  Example 1.12  Cwt. feeder cattle produced  Example 2.31  Exam		*	37.06	41.33	37.23	29.82	47.25
Animal unit in beef breeding herd  Cwt. feeder cattle produced  Cwt. hogs produced  Cwt. hogs produced  Head of sheep (farm flock)  Hen  Cwt. turkeys produced  Teed cost per:  Dairy cow  Dail-purpose cow  Animal unit in beef breeding herd  Cwt. feeder cattle produced  Cwt. hogs produced  * * * * * * * * * * * * * * * * * * *	•	*					
Cwt. hogs produced  Cwt. hogs produced  Head of sheep (farm flock)  Hen  Cwt. turkeys produced  * 2.31 2.21 3.04 1.16 1.18  * 2.27 1.98 1.71 2.91 4.17  Hen  * .78 1.14 1.21 .73 1.02  Cwt. turkeys produced  * * * * * 7.23   Feed cost per:  Dairy cow  Pual-purpose cow  Animal unit in beef breeding herd  Cwt. feeder cattle produced  Cwt. hogs produced  Head of sheep  Head of sheep  Hen  Cwt. turkeys produced  * * * * * * * * 6.62  Cwt. hogs produced  * * * * * * * * 6.62  Cwt. hogs produced  * * * * * * * * 6.62  Cwt. turkeys produced  * * * * * * * * 7.93  Hen  * * * * * * * 7.93  Horse  Price of feed, ear corn (per bu.)  Price of feed, bran (per cwt.)  * * * * * * * * * 8.1 \$.70 \$.41 \$.40 \$.48  Price of feed, bran (per cwt.)  * * * * * * * * * * * * * * * * * * *	,	*	*	*	*	*	
Head of sheep (farm flock)  Hen  Cwt. turkeys produced  * * * * * * * * * * * * * * * * * * *	Cwt. feeder cattle produced	*	*	*	*	*	2.46
### ### ### ### ### ### ### ### ### ##			2.31			1.16	
Cwt. turkeys produced * * * * * * * 7.23  Feed cost per:  Dairy cow							
Feed cost per:  Dairy cow  Dual-purpose cow  Animal unit in beef breeding herd  Cwt. feeder cattle produced  Cwt. hogs produced  Head of sheep  Hen  Cwt. turkeys produced  Hen  Cwt. turkeys produced  Frice of feed, ear corn (per bu.)  Price of feed, bran (per cwt.)  * \$37.53 42.51 34.22 31.16 35.61  * * * * * * 32.07  * * * * * * * * 31.15  * * * * * * * 6.62  * * * * * * * 6.62  * * * * * * * 6.62  * * * * * * * 6.62  * * * * * * * 6.62  * * * * * * * * 6.62  * * * * * * * * 6.62  * * * * * * * * 6.62  * * * * * * * * 6.62  * * * * * * * * 6.62  * * * * * * * * * 6.62  * * * * * * * * * 6.62  * * * * * * * * * 6.62  * * * * * * * * * * 6.62  * * * * * * * * * * * * 6.62  * * * * * * * * * * * * 6.62  * * * * * * * * * * * * * * * * * * *							
Dairy cow	owt. turkeys produced	45	4		T	-ir	7.23
Dual-purpose cow       *       *       *       *       *       32.07         Animal unit in beef breeding herd       *       *       *       *       *       31.15         Cwt. feeder cattle produced       *       *       *       *       *       6.62         Cwt. hogs produced       *       6.69       6.30       4.37       4.19       4.39         Head of sheep       *       2.83       2.41       2.25       2.03       2.29         Hen       *       1.54       1.43       1.22       1.12       1.15         Cwt. turkeys produced       *       *       *       *       *       7.93         Horse       *       40.59       33.64       28.44       28.31       30.66         Price of feed, ear corn (per bu.)       *       \$.81       \$.70       \$.41       \$.40       \$.48         Price of feed, bran (per cwt.)       *       1.40       1.35       1.05       1.25       1.30	Feed cost per:	a i					
Animal unit in beef breeding herd	Dairy cow	* 5	37.53	42.51	34.22	31.16	35.61
Cwt. feeder cattle produced  Cwt. hogs produced  * * * * * * 6.62  Cwt. hogs produced  * 6.69 6.30 4.37 4.19 4.39  Head of sheep  * 2.83 2.41 2.25 2.03 2.29  Hen  * 1.54 1.43 1.22 1.12 1.15  Cwt. turkeys produced  * * * * * 7.93  Horse  * 40.59 33.64 28.44 28.31 30.66  Price of feed, ear corn (per bu.)  * \$.81 \$.70 \$.41 \$.40 \$.48  Price of feed, bran (per cwt.)  * 1.40 1.35 1.05 1.25 1.30							32.07
Cwt. hogs produced							
Head of sheep  Hen  Cwt. turkeys produced  Horse  Price of feed, ear corn (per bu.)  Price of feed, bran (per cwt.)  * 2.83 2.41 2.25 2.03 2.29  * 1.54 1.43 1.22 1.12 1.15  * * * * * * * 7.93  * 40.59 33.64 28.44 28.51 30.66  * \$.81 \$.70 \$.41 \$.40 \$.48  * 1.40 1.35 1.05 1.25 1.30							
Hen							
Cwt. turkeys produced							
# 40.59 33.64 28.44 28.51 30.66  Price of feed, ear corn (per bu.)							
Price of feed, ear corn (per bu.) * \$.81 \$.70 \$.41 \$.40 \$.48 Price of feed, bran (per cwt.) * 1.40 1.35 1.05 1.25 1.30							
Price of feed, bran (per cwt.) * 1.40 1.35 1.05 1.25 1.30		*					
	Price of feed, bran (per cwt.)  Price of feed, alfalfa hav (per ton)		9.00	9.50			
*Information not available.	*Information not available.				<del>-</del>	. • 50	

Footnote for pages 27 and 28:

The financial statements differ in that the unpaid family labor rate was \$40 per month for 1935, \$43 in 1936, and \$45 in 1937 to 1940; and the board for hired labor was figured at \$15 per month in 1935, and \$18 per month in 1936 to 1940. These adjustments to meet changes in the price level should be considered in comparing 1940 results with previous years.

The data for each of the first three years were for the 12 months' period beginning March first of the three years indicated and ending February twenty-eighth of the following year. The data for 1938 to 1940 were for the period January first to December thirty-first.

Several changes appear in the 1940 records. The value of the house which has previously been omitted from the farm business is now included and a rental charge equal to 10 per cent of the average value of the house is included with the farm perquisites. The standards used in the calculation of work units have been changed in accordance with new information recently made available. This latter change also affects the work units per worker and the factor of expense per work unit. The acres in protected woodlots, roads, waste and farmstead have been omitted from the acreage used in the calculation of amount of livestock per 100 acres. Several new livestock statements were added. Cattle kept for milk production have been classified into two groups, "specialized dairy cattle" and "dual-purpose cattle". Separate statements are presented for these groups. Statements for beef breeding cattle, feeder cattle and feeder sheep are also included.

Suggestions for Improvements