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UNIVERSITY OF MINNESOTA Department of Agriculture

and

UNITED STATES DEPARTMENT OF AGRICULTURE
Bureau of Agricultural Economics

and the

County Extension Services of
Dakota, Dodge, Freeborn, Goodhue, Le Sueur, Mower, Nicollet
Olmsted, Rice, Scott, Steele, Wabasha, and Waseca Counties
Cooperating

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Annual Report
of the
Southeastern Minnesota
Farm Management Service
1940

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Cooperator:

Mimeographed Report No. 120
Division of Agricultural Economics
University Farm
St. Paul, Minnesota
March 1941

Thirteenth Annual Report of the Farm Management Service of Dakota, Dodge, Freeborn, Goodhue, Le Sueur, Mower, Nicollet, Olmsted, Rice, Scott, Steele, Wabasha and Waseca Counties for the Year 1940

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

INDEX

	Page
Introduction	1
Summary of Farm Inventories.	4 & 5
Amount of Livestock	5
Summary of Farm Earnings (Cash Statement)	6
Summary of Farm Earnings (Enterprise Statement)	7
Analysis of the Reasons for Differences in Operator's Earnings	8
Effect of Well Balanced Efficiency on Operator's Earnings	10
Measures of Farm Organization and Management Efficiency	12
Thermometer Chart	13
Distribution of Acres in Farm	14
Yield of Crops	15
Feed Costs and Returns from Dairy Cows	16
Feed Costs and Returns from Other Dairy Cattle	17
Feed Costs and Returns from All Dairy Cattle	17
Feed Costs and Returns from Milk and Beef Cows	
Feed Costs and Returns from other Milk and Beef Cattle	19
Feed Costs and Returns from All Milk and Beef Cattle	19
Feed Costs and Returns from the Beef Breeding Herd	20
Feed Costs and Returns from Feeder Cattle	20
Feed Costs and Returns from Native Sheep	21.
Feed Costs and Returns from Feeder Sheep	21
Feed Costs and Returns from Hogs	22
Feed Costs and Returns from Chickens	22
Feed Costs and Returns from Turkeys	23
Feed Costs for Horses and Other Power Expense Items	23
Farm Produce Used in House and House Rental	24
Household and Personal Expenses	24
Miscellaneous Information - Averaged by Counties	25
Summary of Farm Earnings 1928-1940	26 & 27
Comparison of Various Items with Previous Years	27 & 28
Notes	29

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The Division of Agricultural Economics and the Division of Agricultural Extension of the University of Minnesota, the Bureau of Agricultural Economics of the United States Department of Agriculture, and the county extension services of Dodge, Freeborn. Goodhue, Rice, Steele and Waseca Counties organized late in 1927 the Farm Management Service Project, to operate in the above named counties, beginning January 1, 1928. Additional counties have since been added. This farm management service is offered to farmers who desire to keep farm records, and to have these records summarized and analyzed in connection with those of other farmers. Each farmer who cooperates

Note: Assistance in the preparation of this material was furnished by workers supplied on N.Y.A. Student Work Project No. 0061-100.

Sponsor: University of Minnesota

in this service pays an annual fee which covers a part of the cost. The following tabulation shows by counties the number of records submitted in 1940:

Dakota	8	Mower	9	Steele	16
Dodge	10	Nicollet	17	Wabasha	4
Freeborn	19	Olmsted	13	Waseca	15
Goodhue	17	Rice	11		
Le Sueur	5	Scott	8	Total	152

The tables on page 4 and succeeding pages show 148 farms. Four farms have been omitted from all of the averages in the tables because they differed so widely in type from the others or were not complete enough for analysis.

General administration of this project, analysis of the records and preparation of the reports is handled by the Division of Agricultural Economics under the direction of G. A. Pond and T. R. Nodland. Field organization is handled by the Agricultural Extension Division with S. B. Cleland and J. B. McNulty in charge of this work. At the end of the year the following members of the Division of Agricultural Economics aided in closing the records:
A. W. Anderson, S. A. Engene, A. W. Epp, G. E. Toben, and Geo. Wilkens. County agricultural extension agents who cooperate in this project include H. Lawrenz, V. Sander, W. M. Lawson, G. J. Kunau, R. D. Evans, F. L. Liebenstein, E. Nelson. R. Aune, D. Marti, W. W. Miller, J. R. Gute, S. B. Simpson and C. F. Murphy.

The Southeast Minnesota Farm Management Association was organized in 1939 by the farmers cooperating in the S. E. Farm Management Service. This association now represents its membership as an additional cooperating agency to determine policies and especially to maintain the field organization and membership. Officers for 1940 were:

President, Stanley Newhall, Owatonna, Steele County;
Vice President, H. B. Hillier Brownsdale, Mower County;
Secretary-Treasurer, Otto Kajer, New Prague, Le Sueur County.

The board of directors included these officers and also the following: Charles Flugum, Freeborn County; Wm. G. Frame, Dakota County; John Holmes, Rice County; R. C. Johnson, Nicollet County; Joe Rostad, Goodhue County; Fred Scholljegerdes, Waseca County; John Vaughn, Scott County; and Leslie Wright, Dodge County.

TYPE OF FARMING

Most of the farms are livestock farms on which dairy cattle are the principal source of income. Although some milk and cream are retailed in cities, and some milk is sold for shipment to the Twin Cities, cream for manufacture into butter is the principal dairy product sold. This is marketed through farmer-owned cooperative creameries specializing in the manufacture of high quality butter. The skimmilk is retained on the farm and fed to hogs and poultry. These two classes of livestock are also an important source of income.

The principal crops grown are corn, nats, barley and hay. These crops are raised primarily as livestock feed, although a seasonal surplus may be sold. Wheat, sweet corn, canning peas, sugar beets, flax and seed crops are grown to a limited extent as cash crops.

This report shows that the receipts from sales of dairy products constituted about twenty-five per cent, and the receipts from hog sales about sixteen per cent of the average cash income of 148 cooperators included in this report. These forms are fairly typical of the system of dairy farming prevailing in southeastern Minnesota.

WEATHER, SOIL AND TOPOGRAPHY

Weather conditions were rather uniform in this area in 1940. Temperatures in April and May were below normal and small grains got an excellent start even though precipitation was also somewhat below normal. Yields were the highest of any year of this study. Fairly high temperatures in June and July with ample summer rainfall resulted in the highest corn yields of any year except 1939. Hay yields because of low rainfall in the spring and wet weather losses in curing the second crop were slightly below normal.

There is some variation in soil conditions and topography among these counties. The soil varies from sandy loam to a rich black clay loam; the latter type predominates in this area. Some of the farms are level, all tillable, and well drained, but most of them are gently rolling with some land too rough or too wet to cultivate. Goddhue County has more rolling land than the other counties. Much of the level land is tiled to make possible its cultivation in wet years. However, on a number of farms, there is considerable land which is poorly drained. In much of Goodhue, Dodge, Mower and Olmsted Counties and in the eastern part of Dakota, Rice and Steele Counties, the soil is lime deficient and applications of lime are necessary in order to grow alfalfa and sweet clover. In the remainder of the area it is not necessary, as a rule, to apply lime in order to grow these two crops.

RECORDS KEPT

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

The cooperators were assisted and supervised in keeping their records by the field agent, Glen Myers, who visited each farm in the thirteen counties several times during the year. In addition to securing the supplementary information, the field agent's duties included numerous services, viz., securing a monthly list of prices of farm products prevailing in the area, helping the farmer place uniform values on real estate and equipment, checking the cash and feed records, and answering any questions that might arise as to how the entries should be made in the account book. The supervision resulted in uniformity in the type of records secured, in the inventory valuations and in the prices at which feed and farm prices at which feed and farm produce were charged.

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

 $c_{ij} = dc_{ij} c_{ij} c_{i$

Summary of Farm Inve	ntories (Beginning of	Year), 1940	
Items	Your farm	Average of 148 farms	30 most profitable farms	30 least profitable farms
Size of farm (acres) Size of business (work units)*		224.6 658	300.3 876	205.7 546
Horses Productive livestock (total) Dairy and milk - beef cows Other dairy & milk - beef cattle Beef cattle (including feeders) Hogs Sheep (including feeders) Poultry (including turkeys) Crop, seed, and feed Mach. & equipment (total) Power mach. (f. share) Crop & gen. mach. (f. share) Livestock equip. & supplies Buildings, fences, etc. Land	\$	\$ 449 2,764 1,061 572 389 398 112 232 2,016 2,575 906 1,211 458 6,418 9,313	\$ 565 3,957 1,343 647 1,034 521 225 187 2,912 3,081 1,209 1,446 426 6,793 12,503	\$ 407 2,314 1,064 560 80 360 92 158 1,537 2,360 764 1,157 439 6,680 7,319
Total farm capital		23,535	29,811	20,617

* 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:

,		No. of			No. of
Item	Per	work units	Item	Per	work units
Doing and mills		a): m	S. 11		G*
Dairy and milk -	COW	14.5	Small grain	acre	.8
beef cows			Soybeans for grain	LII	1.0
Other dairy & milk	-)	4.4	Sugar beets	, H	3.0
beef 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	Ħ	1.1
Hens	100 hens	28.0	Corn, shredded	11	2.8
Feeder cattle	, i)	14	Corn silage	. 11	2.1
Feeder sheep) 100 lbs.	.5	Corn fodder	. !!	1.5
Hogs) produced	. 3	Alfalfa hay	Ų	1.0
Turkeys) -	. 7	Soybean hay	ย์	1.4
Canning peas	acre	2.0	Other hay crop	11	.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.

	Summary of	Farm I	nventoi	ies (End of Year), 1940	· · · · · · · · · · · · · · · · · · ·
Items			You	ir	Average of 148 farms	30 most profitable farms	30 least profitabl farms
Alternative services	adamin'i			***************************************			
Horses	100 m		\$		\$ 413	\$ 472	\$ 359
Productive live	stock (tota	1)			3,158	5,042	2,480
Dairy & milk			***************************************		1,158	1,493	1,145
Other dairy &			<u> </u>	-,	609	797	563
Beef cattle	37.7	- 00,002	·		592	1,596	154
Hogs		• • • • • • • • • • • • • • • • • • • •			442	645	343
Sheep	**		1		143	326	107
Poultry			-		214	185	168
Crop, seeds, an	heaf h				2,402	3,651	1,626
Mach. & equipme		11.24	* * * * * * * * * * * * * * * * * * * *	t '			
Power Mach. (2,723	3,329	2,561
Crop & gen. m	1. Suelte/			-	961	1,272	885
			*******		1,272	1,601	1,191
Livestock equ		phries			490	456	485
Buildings, fenc	es, e.c.		*****	**********	6,536	6,993	6,586
Hanu)			***************************************		9,320	12,504	7,318
Motal from and		¥3			مار حم		00 070
Total farm capi	∪a.± ∖	13.		·····	24,552	31,991	20,930
\$9.	\$1.1	111				1 to	
10 to				a T.			Array San
	Summ.	ary of A	Amount	or Pri			
10000 10000		nj.	mac., 44	77	Average	-	30 least
† e ^t a Tir maa	1.1	1	** * ****	Your	of 148	profitable	
Items ()				farm	farms	farms	farms
TT A TO SEE	Establish (To go a	**		,	, 100 miles (100 miles	MARKO I.I.
No. of horses	M. [187]				4.1	4.5	3.6
No. of colts	4 1	**	n		1.0	1.2	1.0
No. of dairy &			of managers		17.1	21.3	0016.3
Head of other d					17.4	20.7	17.2
Head of cattle l	cept in beef	breedi	ng herd		3.4	6.1	2.4
7 - 44 (144) 			est who dy way y	14.50	ers ye. The second	The state of the s	eligia di Salaharan Salaharan
Head of sheep (2 lambs = 1	head)	the Management of	· "	18.6	37.1	13.1
No. of hens	V 1.5	7.5			197	5,40	203
Litters of pigs		Q2.2	e the fill had all an earlier gray.		12.1	16.8	9.0
Pounds of hogs	produced	404	e the title and the same		17,671	24,794	13,000
	13.5	200	e engage age of				
Total ho. of pr		ck anime	al unit	S	46.1	64, 9	38.2
% of total that	are dairy	ć milk -	***************************************		40.6	37.8	42.7
	Seef beef		and the season of		· ATARTON	in a fighter was	
% of total that		dairy &	milk -		21.8	19.2	24.2
% of total that	are in hee	f hraadi	no hom	3	3.0	11 6	وْ اوْ :
% of total that			rife man	4	7.7	7. Q (2.00)	្រីក្រី ប្រឹ
% of total that			es es emigra	 		0.0 7 π 3333	5.0
% of total that			· · · · · · · · · · · · · · · · · · ·	. 		ins valdiging	
% of total that			NECE POLI		Find	· TOLLY AND LE	77 1
% of total that		-3.j 10.i			1(.)	$\pm f \cdot \Xi$	11.7
% of total that	are turk y	S		····	<u></u>	in though Section	1.0
A OF COCUT OILUT	#1 & 116112	20 2 17775	1.001.000		<u> </u>	-t, c	Q.1L
Number of farms	with tract	ors	en die saage		1.10 1.36	29 29	25
				<u> 12 de 17 - </u>	46		

Summary of Farm Earni	-6- ngs (Ca			
which we find the property and the depresentation of the second of the s	Your	Average of 148	profitable	30 least profitable
Items	farm	farms	farms	farms
FARM EXPENSES	ுஜ்ர் துரி என்ன≉	* * * * * * * * * * * * * * * * * * *	Of DE	ф OF
Horses bought	Ф	\$ 28	\$ 45 68	\$ 25
Dairy and milk-beef cows bought	<u>(2</u> - 10 8 (27)	39 66	149	39 5 7
Other dairy & milk-beef cattle bought			1526	57
Beef cattle bought (including feeders)		502 60		92 82
Hogs bought Sheep bought (including feeders)	-	82	95 149	2
Poultry bought (including turkeys)		100	62	71
Misc. crop expenses		182	230	166
Feed bought	***********	600	802	486
Power mach. (farm share) (new)		26 2	372	308
Power mach. (farm share) (upkeep)		342	443	32 7
Custom work hired		123	131	86
Crop and general mach. (new)		207	352	177
Crop and general mach. (upkeep)	- F	46	63	43
Livestock equipment (new)	************	89	87	95
Livestock equipment (upkeep)		22	24	18
Misc. livestock expense		78	107	63
Buildings and fencing (new)	***************************************	352	456	146
Buildings and fencing (upkeep)	~	8,1	99	92
Hired labor	}********* *****	; , jtÖjt	586	382
Taxes		263	353	247
Insurance		13	18	<u>1</u> 5
General farm		42	41	43
(1) Total farm purchases	-	3986	6258	3062
(2) Decrease in farm capital			••• •	gamba - Jaylor II - La Garage Mange
(3) Board furnished Mired labor	*	141	160	133
(4) Interest on farm capital		1202	1545	1039 214
(5) Unpaid family labor	***************************************	<u>269</u>	<u> </u>	714
(6) Total farm expenses(Sum of (1) to (5) FARM RECEIPTS	····	5598	φ)±) · .	4740
Horses		718	113	38
Dairy and milk-beef cows	***	239	359	180
Dairy products	to with months and the	1454	, 2022	1313
Other dairy and milk-beef cattle		250	277	249
Beef cattle (including feeders)	***	687	1927	104
Hogs		98 <i>j</i> t	1399	791
Sheep and wool (including feeders)		162	267	58
Poultry (including turkeys)		339	J _j †5	170
Eggs		405	425	346
Corn		128	5,148	107
Small grain		235	419	55,1
Other crops		250	534	124,
Power machinery sold	<u>ර්</u>	109	157	111
Crop and gen. mach. sold		42	73	70
Misc.	-	3)1 &	273	64.
Income from work off the farm	•	148 324	223	.38 244
Agricultural adjustment payments	***************************************	<u> 324</u> 5948	520 0378	<u>4198</u>
(7) Total farm sales	territorio constitutivo	101.7	9378 2180	
(8) Increase in farm capital (9) Farm prod. used in House + house	**************************************	TOT	CTOU	313
(9) farm prod. used in house + house rent	I was come	458	512	422
(10) Total farm receipts(7)+(8)+(9)	Moratomognicupana	7423	12070	4933
(6) Total farm expenses	****	5598	8313	111118
(11) Operator's labor earnings(10)-(6)	Terretourous singlescone	1825	3757	1485
	Water to the second	-	- - -	-

Items	Summary of Farm Ear	Your farm		30 most profitable farms	30 least profitable farms
EXPENSES AND NET	DECREASES				
Total power	\$	* * * * * * * * * * * * * * * * * * * *	\$ 623	\$ 795	\$ 584
Horses	· · · · · · · · · · · · · · · · · · ·		165	207	164
Tractor			177	265	194
Truck	•••••		72	86	56
Auto (farm sl	nare)		97	111	77
Gas engine (· · · · · · · · · · · · · · · · · · ·	·	6	7	<u>, j</u>
·	or current (farm share)	· · · · · · · · · · · · · · · · · · ·	48	53	49
Hired power		along to the state of the state	. 58	. 66	40
Crop and genera	al machinery	0-10-10-10-10-10-10-10-10-10-10-10-10-10	163	190	161
Livestock equi			71	69	59
	cing and tiling		202	238	227
	ve livestock expense	·	74	102	60
Labor			841	1,131	749
Real estate ta	xes		232	310	220
Personal prope			31	43	27
Insurance			$\tilde{13}$	18	15
General farm	-		42	41	43
Interest on fa	rm capital	: "	1,202	1,545	1,039
(1) Total expe	nses & net décreases		3,494	4,482	3,184
RETURNS AND NET	INCREASES	1 . * 1 * ** 1 ** 1 * 1 * 1 * 1 * 1 * 1		· ·	
All productive	livestock		4,409	6,245	3,339
Dairy and mi	lk - beef cows		1,719	2,349	1,502
Other dairy	& milk - beaf cattle		530	747	464
Beef breeding	g herd		81	147	47
Feeder cattle	e 1 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		296	759	40
${ t Hogs}$			1,000	1,465	717
Sheep - farm	·		93	197	71
Sheep - feed	ers		18		0
Turkeys	·		196	0	. 50
Chickens	-		476	558	448
Crops, seed an		P vs 1 d read in earth the relation ages	271	998	- 72
	rk off the farm		148	223	38
	onservation payments $_$	· · · ·	324	520	5/1/1
Miscellaneous	er grande en	dent of the sector and the sector an	167	253	120
(2) Total retu	rns & net increases	Ann	5,319	8,239	3,669
(1) Total expe	nses & net decreases _		3,494	h'f185	3,184
(3) Oper. labo	r earnings (2) minus(1)		1,825	3,757	485

⁽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.

Secretarian Control of the Control o

The financial statement on the preceding pages show that there is a wide range in earnings. The average operator's labor earnings for the 30 most profitable farms \$485. The difference between the averages for these two groups was \$3,272. Some of the causes for these differences in earnings may be beyond the control of the farmer. It is significant, however, that the data in this report and the reports of recent years in this same area indicate that there are several factors which show definite relationships with operator's labor earnings and which suggest opportunities for increased earnings. The more important of these factors and their relationship with earnings are presented in the following tables.

Table 1.	Relation	of Crop Yields	to Farm Earnings
Per cent crewere of the for all 148	average	No. of farms	Average operator's labor earnings
Group	Average	a seguina de la compansión de la compans	
Below 85 85-114 115 and abov	74 100 ve 123		\$1,146 1,894 2,266

134

30

1,00

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 2. Relation of Choice of Crops to Farm Earnings

Per cent of tillable land No.

in high return

. Table 2.	Relat	ion of Choice of	Crops to Farm Earnings
		le land No.	Notes Televisión de la periodo de la trata figura de
in high retu	irn cro	os* of	Average operator's
Group		Average farms	labor earnings
Below 34.0 34.0-45.9 46.0 and abo))) ve	28.1 27 40.8 87 53.6 34	\$1,225 1,887 2,144

^{*}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.

As a rule, on these farms, such crops as alfalfa, clover, canning crops, sugar beets, 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 as high a percentage as possible of the tillable land into these higher return crops.

Table 3. Relation of Returns From Productive Livestock to

and the second seco	and the second s	Farm Enr		General Control of the Control of th
and the state of t	Index of returns for fed to productive liv	\$100 feed	Ио.	Average operator's contable labor sarnings
కుండాలన్ ప <i>్</i> డాకన -	Group	Average	· · · <u>·</u> · ·	and the second s
	Below 86 86-113 114 and above	75 101 125	56 34 58	\$1,336 1,858 2,230

^{*}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 4. Relation of Amount of Productive Livestock to

Land Brown and

		Farm Earnings	
	ve_livestock. r 100 acres*		Average operator's
	Average	farms	labor earnings
Below 18. 18.0-26.9 27 and al		81	\$1,713 1,756 2,099

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

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. 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 5. Relation of Size of Business (Work unit)

	to	Farm Earnings
Days of product	tive work	No. of Average operator's
Group	Average	farms labor earnings
Below 500 500-799 800 and above		36 \$1,126 79 1,706 33 2,872

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 in so doing he does not lower materially the efficiency in some one or more important branches of his business. Those formers 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 6. Relation of Amount of Work Accomplished per
Worker to Farm Earnings

Work unit	·	7 .	2.4		
per worker		. *		No. of A	verage operator's
Group .	Average		2	farms 1:	abor earnings
Below 250 250-324 325 and above	213 282 375	٠.		38 66 44	\$1,303 1,887 2,182

More days of productive 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 7. Relation of Power, Machinery, Equipment and

	Building	Expense to #	arm darnings*	
Expense per work unit		No. of	Average operato	
Group Av	erage	farms	labor earnings	
\$2.00 and above \$1.30-\$1.99 Below \$1.30	\$2.47 1.61 1.03	36 71 41	\$1,187 2,015 2,056	

^{*}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 8.

Table 8. Relation of Operator's Labor Earnings to the Number of Pactors in which the Pormon is Thous Avorage

		- 61/ 	ctors in which the farmer is Above Average	
No. of factor which excels	s in farma	Nn.	and the state of t	Average operator! labor earnings
e mengan persenta terba Negari	A same of the same			
Seven		2	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	x \$5,478
Six		16	XXXXXXXXXXXXXXXX	2,806
Five	, x C y L	22711	XXXXXXXXXXXXXX	2,245
Four		30	EXXXXXXXXXXXX	1,972
Three	5.45	37 . 🗀 🗌	XXXXXXXXXXX	1,752
Two		5/1	er Silve for the plant of the XXXXXX	1,151
One	11 / Y	12.01	THE PROPERTY OF THE PROPERTY O	993
None	•	5	xx to the second of the section of	. 5966
N	<u> </u>		And the second s	

11 ac 20100 - 2094 200 00 eg 70 The array in Table 8 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 weak-Service view of the control of the c ness in his farm business.

adio to cure in Pairlant (Set) incorporati TERRITORIA MINIS in genny desert that Could income the Xellin System wir without that the Bills Commence of the Commence of th bred arthural fers 50£ Siffand Salaya $r \rightarrow r$ 33.1-3 大小百年 25 大型配 Q. 14. Appropriate the state of the st 100 moste teller W_{i+1} ,,.. gavandal organical establishment (a) Sent the western bright to the on + ijg in the green to the it 1 HALLMAN TO MURROW (C. 114 C) to the entry of the content $f_{i} = 1$ and the second s where the existing process are a market and a second Agrange day to the property of the comment of the with the war that we do not be a finished the Make the first of a part of the Albert

Section Association for the Section of the Section Section 1 A CARROLL CONTROL OF THE STATE The second of the second

 Section 1. Section 1 Control of the Contro en de la companya de la co

Measures of Farm Organization and Management	Efficier	ncy, 1940	
Measures used in chart Your on page 13 farm	Average of 148 farms	30 most profit- able farms	30 least profit- able farms
Operator's Labor Earnings \$	\$1,825	\$3,757	\$485
(1) Crop yields*	100	105	91
(2) % of tillable land in high return crops**	41.4	43.9	36.4
(3) Ret. for \$100 feed to prod. livestock***	100	107	92
(4) Prod. livestock units per 100 acres****	23.4	25.1	21.8
(5) Size of business - work units	658	876	546
(6) Work units per worker	292	322	271
(7) Pow., mach., equip., & bldg.exp.per work unit \$	\$1.66	\$1.52	\$1.93
Measures and items related to some of the above measures: (3) Index of return for \$100 feed from - Dairy cattle Milk and beef cattle Beef breeding herd Feeder cattle Hogs Native sheep Fooder sheep	100 100 100 100 100	112 120 93 93 112 99	91 99 82 121 85
Feeder sheep Turkeys Chickens	100 100	103	104 90
(5) Work units on crops Work units on productive livestock Other work units	177 431 50	250 551 7 5	147 386 13
(6) Total number of workers Number of family workers Number of hired workers	2.3 1.5	2.7 1.6 1.1	2.1 1.3 .8
(7) Power expense per work unit Crop machinery expense per work unit Livestock equip. expense per work unit Bldgs. and fencing exp. per work unit	\$.97 .26 .10 .32	\$.95 .22 .08 .27	\$1.09 .30 .11 .44

^{*} 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.

^{**} Given as a percentage of the average.

^{***} 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 148 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		0	High	frompr		*.* ·	units	eq., & bldg.
earn-		Crop yield	return s crops	ductive livesto	*	Work units	per worker	exp. per day pr.work
ings		y teru	s crops	L	L I	L	worker	L T
\$4400		140	62.0	140	39.0	1300	460	\$.50
4100		135	59.5	135 =	37.0	1225	440	.65
-		. =						
3800 -		130	57.0	130	35.0	1150	420	.80
3500		125	54.5	125	33.0	1075	400	•95
3200		120	52.0	120	31.0	1000	380 =	1.10
2900 =	- '	115 =	49.5	115	29.0	925	360	1.25
2600	-	110	47.0	110 =	27.0	850	340	1.40
2300 =	-	105	44.5	105	25.0	775	320	1.55
2000		100	42:9	100	23:4	700 658 =	300 292	1.66
1825 <u> </u>	• -	o_E	39.5	95	21.0	625	280	1.85
1400 =		90 =	37.0	90 =	19.0	550	260	2.00
1100		85 =	34.5	85	17.0	475	240	2.15
800		80 =	32.0	80	15.0	400	220	2.30
500	. =	75	29.5	75	13.0	325	200 =	2.45
200		7.0	27.0	70	11.0	250	180	2.60
-100		65	24.5	65	9.0	175	160	2.75
E	5) - 2 -		

Distribut	ion	of Aaros	in Form	1940		
Crop: (A) (B) (C) and (D) refer		No.	Your	Average	30 most	30 least
to ranking used in calculating	•	growing	farm	of 148	profit-	profit-
% of tillable land in High		this		farms	able	able
Return Crops (see page 12)		crop			farms	farms
_	, ,					
Canning peas	(A)	10		.8	1.8	. 3
Flax	(B)	74		7.8	11,2	8.1
Barley	(B)	95		13.4	17.2	11.1
Winter wheat	(B)	52	····	5.5	7.8	3.8
Spring wheat Oats and barley	(°C)	39		2.3	2.6	2.6
Oats and wheat	(°C)	70		13.7	17.1	5.8
Oats	(D)	31 95		2.9 14.7	6.2 15.3	.5 20.5
Rye	(D)	13		1.1	.6	3.4
Soybeans for grain	(D)	29		1.9	2.0	2.5
Miscellaneous	(D)	12		.6	1.3	•5
Total small grain and peas				64.7		59.1
Sugar beets, hybrid seed corn,				04./	83.1	<u> </u>
potatoes and truck crops	(A)	70	,	2.2	6.4	.7
Sweet corn	(B)	17		1.5	3.5	.3
Corn gràin	(B)	147	······································	31.3	44.6	24.0
Corn silage	(C)	122		. 8.4	11.4	6.9
Corn fodder	(D)	30		.9	1.4	1.6
Total cultivated crops			-	44.3	67.3	33.5
Alfalfa hay	(A)	135		100	07 0	
Red clover hay	(B)	24		18.2 2.2	23.2 2.4	15.0 2.4
Soybean hay	(c)	73	-	4.7	7.1	5.6
Mixed legumes & non-legumes	(c)	37.		3.3	3.4	1.8
Legumes for seed	(c)	4	······································	.5	1.6	.3
Timothy and/or brome	(D)	32		1.7	2,1	2.1
Timothy seed	(D)	3	***************************************	.2	0	.3
Other annual hay	(D)	32		1.3	1.9	1.9
Total tillable land in hay				32.1	42.7	29.4
	(^)	00				
Alfalfa pasture	(A)	29	·	1.0	1.0	.4
Sweet clover pasture	(B)	46 .		3.9	7.7	1.9
Mixture incl.alf., sw.clov., brom Other legumes and mixtures	e(D).	22	***************************************	2.7	3.1	3.1
Sudan grass pasture	(c)	38 46		5.0	9.7	3.0
Other tillable pasture	(D)	73		2.1 5.8	1.7	2.5
	-	1) .		5.8	6.1	2.7
Total tillable land in past				20.5	26.0	13.6
Tillable land not cropped	(D)	32		1.8	1.0	3.2
Total tillable land				163.4	219.1	138.8
Phalaris hay (non-tillable)		15		1.3	1.9	1.5
Wild hay (non-tillable)		43		3,3	5,7	1.1
Non-tillable pasture		126		32:7	37.4	42.2
Timber (not pastured)		67		7.1	9.6	6.7
Roads and waste				10.2	18.3	10.2
Farmstead				6.6	8.3	5.2
Mata2						·
Total acres in farm		. •		224.6	300.3	205.7
% land tillable % tillable land in high naturn			·	74.1	75.0	70.2
% tillable land in high return	crobs	·		41.4	43.9	36.4

Crop		lds per Ac Your farm	Average 148 farms	30 most profitable farms	30 least profitable farms
Canning peas, value above Flax, bu. Barley, bu. Winter wheat, bu. Spring wheat, bu.	seed cost	\$	\$36.26 11.0 41.0 29.7 23.3	\$45.02 12.2 41.2 33.7 21.7	\$45.03 10.6 42.1 24.8 24.2
Oats and barley, bu. Oats and wheat, bu. Oats, bu. Rye, bu. Soybeans for grain, bu.			54.7 49.5 58.2 22.5 15.6	57.3 46.5 60.6 27.2 19.4	49.2 61.3 52.0 20.6 14.8
Sweet corn, tons Corn, grain, bu. Corn silage, tons Corn fodder, tons			3.5 56.3 9.7 2.9	3.6 57.9 10.0 2.2	2.9 49.0 9.7 2.4
Alfalfa hay, tons Red clover hay, tons Soybean hay, tons Mixed legume & non-legume Legumes for seed, lbs.	hay, tons		2.3 1.8 1.7 1.5 143.5	2.6 1.4 1.8 1.4 200.6	2.2 1.5 1.7 1.3 68.4
Timothy and/or brome hay, Timothy seed, lbs Other annual hay, tons Phalaris hay on non-tillab Wild hay, tons	* .	ns	1,5 149.1 1.4 2.0 1.5	1.7 1.4 1.7 2.4	1.2 148.8 1.3 1.4 2.1
			,		

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Factors of Cost and Return	Your Average		25 farms
Items	farm of 126 farms	highest in	lowest in returns
T U emis		HOOAR TEER	above reco
Pounds of butterfat per cow Feeds per cow, lbs.:	260	315	205
Corn Small grain Com. feeds - under 25% protein Com. feeds - over 25% protein	735 1,164 88 88	715 1,306 130 143	840 1,223 35 70
Legume hay	3,588	3,316	3,841
Other hay Fodder and stover	496 432	431 298	720 639
Total concentrates Total dry roughage Silage	2,075 4,516 6,334	2,294 4,045 6,410	2,168 5,200 6,541
Total digestible nutrients* T.D.N. per lb. B. F. T.D.N. that is protein	4,869 19.3 14.0	4,826 15.3 14.3	5,336 26,5 13,5
Feed cost per cow: Concentrates \$	\$17.08 20.81 5.33 \$43.22	\$18.92 19.81 5.49 \$44.22	\$17,51 22.73 5.49 \$45.73
Value of produce per cow: B. F. sales Dairy produce used in house Milk to livestock Net increases in value of cows TOTAL VALUE PRODUCED	\$84.51 4.45 11.12 1.19 \$101.27	\$115.52 4.57 10.81 4.03 \$134.93	\$61.66 4.62 9.00 -2.43 \$72.85
RETURNS ABOVE FEED COST PER COW \$_	\$58.05	\$90.71	\$27,12
RETURNS FOR \$100 OF FEED \$_	\$239	\$316	\$164
Price received per 1b. B. F. sold As manufacturing cream (cents) As mkt. mk.& cm.& mk.for cheese(cts.)	32.6 44.3	32.4 46.4	32.6 41.6
Feed cost per 1b. B. F. (cents)	17.1	14.0	22.6
% fall freshening	56.0	53.2	147.1
Number of cows**	18.0	21.0	16.4

^{*}Not including nutrients received from pasture.

^{**}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.

	ner Dairy Ca	ttle, 1940	Feed Costs and Returns From Other Dairy Cattle, 1940 Your Average 25 farms 25 farms								
farm											
Items	animakada kan anama manda ana	above feed	above feed								
Feeds per heai, lbs.:	. P. St. S. and Market . A. other consisting Market and	19 to t. See just over See to a graph of									
Concentrates	459	484	503								
Hay and fodder	1,657	1,558	2,295								
Silage	2,313	2,484	1,963								
Whole milk	408	359	592								
Skimmilk	1,104	810	1,091								
Feed cost per head:											
Concentrates \$	\$ 3.76	\$ 3.89	\$ 4.18								
Roughages	7.31	7.39	9.03								
Milk Pasture	7.22	5.90	10.09								
TOTAL FEED COSTS \$	\$22.03	<u>3.22</u> \$20.40	\$27.24								
Net inc. in value of other dairy cattle	\$31.34	\$44.79	\$21.81								
RETURNS ABOVE FEED COST PER HEAD \$	\$ 9.31	\$24.39	\$-5.43								
RETURNS FOR \$100 OF FEED \$_	<u> </u>	\$235	\$83								
Manhan at had a control of	-)	17.6	3.6								
Number of head of other dairy cattle	14.4	17.6	16.2								
Feed Costs and Returns From Your	Average	25 farms									
Your farm			25 farms lowest in returns								
Your	Average of 126	25 farms highest in	lowest in								
Your farm Items	Average of 126	25 farms highest in returns	lowest in returns								
Your farm Items Feeds per animal unit, lbs.: Concentrates	Average of 126 farms	25 farms highest in returns above feed	lowest in returns above feed								
Your farm Items Feeds per animal unit, lbs.: Concentrates Hay and fodder	Average of 126 farms 1,663 3,971	25 farms highest in returns above feed 1,875 3,888	lowest in returns above feed 1,677 4,443								
Your farm Items Feeds per animal unit, lbs.: Concentrates	Average of 126 farms	25 farms highest in returns above feed 1,875 3,888	lowest in returns above feed								
Your farm Items Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage	Average of 126 farms 1,663 3,971	25 farms highest in returns above feed 1,875 3,888	lowest in returns above feed 1,677 4,443								
Your farm Items Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage Feed cost per animal unit: Concentrates \$	Average of 126 farms 1,663 3,971 5,612	25 farms highest in returns above feed 1,875 3,888	lowest in returns above feed 1,677 4,443 4,729								
Your farm Items Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage Feed cost per animal unit: Concentrates Roughages	Average of 126 farms 1,663 3,971 5,612 \$13.66 18.31	25 farms highest in returns above feed 1,875 3,888 6,256 \$15.62 18.85	lowest in returns above feed 1,677 4,443 4,729 \$13.68 18.78								
Your farm Items Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage Feed cost per animal unit: Concentrates Roughages	Average of 126 farms 1,663 3,971 5,612 \$13.66 18.31	25 farms highest in returns above feed 1,875 3,888 6,256 \$15.62 18.85	lowest in returns above feed 1,677 4,443 4,729 \$13.68 18.78								
Your farm Items Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage Feed cost per animal unit: Concentrates Roughages	Average of 126 farms 1,663 3,971 5,612	25 farms highest in returns above feed 1,875 3,888 6,256 \$15.62 18.85	lowest in returns above feed 1,677 4,443 4,729 \$13.68								
Your farm 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:	Average of 126 farms 1,663 3,971 5,612 \$13.66 18.31 5.90 \$37.87	25 farms highest in returns above feed 1,875 3,888 6,256 \$15.62 18.85 6.04 \$40.51	lowest in returns above feed 1,677 4,443 4,729 \$13.68 18.78 6.05 \$38.51								
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	Average of 126 farms 1,663 3,971 5,612 \$13.66 18.31 5.90 \$37.87	25 farms highest in returns above feed 1,875 3,888 6,256 \$15.62 18.85 6.04 \$40.51	lowest in returns above feed 1,677 4,443 4,729 \$13.68 18.78 6.05 \$38.51								
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	Average of 126 farms 1,663 3,971 5,612 \$13.66 18.31 5.90 \$37.87	25 farms highest in returns above feed 1,875 3,888 6,256 \$15.62 18.85 6.04 \$40.51	lowest in returns above feed 1,677 4,443 4,729 \$13.68 18.78 6.05 \$38.51								
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	Average of 126 farms 1,663 3,971 5,612 \$13.66 18.31 5.90 \$37.87 \$62.47 19.83 \$82.30	25 farms highest in returns above feed 1,875 3,888 6,256 \$15.62 18.85 6.04 \$40.51 \$83.96 25.39 \$109.35	1,677 4,443 4,729 \$13.68 18.78 6.05 \$38.51 \$45.75 13.99 \$59.74								
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	Average of 126 farms 1,663 3,971 5,612 \$13.66 18.31 5.90 \$37.87 \$62.47 19.83 \$82.30	25 farms highest in returns above feed 1,875 3,888 6,256 \$15.62 18.85 6.04 \$40.51	1,677 4,443 4,729 \$13.68 18.78 6.05 \$38.51 \$45.75 13.99 \$59.74								
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 \$	Average of 126 farms 1,663 3,971 5,612 \$13.66 18.31 5.90 \$37.87 \$62.47 19.83 \$82.30	25 farms highest in returns above feed 1,875 3,888 6,256 \$15.62 18.85 6.04 \$40.51 \$83.96 25.39 \$109.35	1,677 4,443 4,729 \$13.68 18.78 6.05 \$38.51 \$45.75 13.99 \$59.74								

Factors of Cost and Returns Items	Your farm	Average of 18 farms	9 farms highest in returns above feed	9 farms lowest in returns
Pounds of butterfat per cow		181	210	152
Feeds per cow, lbs.: Corn Small grain Com. feeds - under 25% protein Com. feeds - over 25% protein		426 1,067 42 37	508 1,332 6 37	344 802 78 36
Legume hay Other hay Fodder and stover		3,182 439 835	3,291 390 566	3,074 487 1,105
Total concentrates Total dry roughage Silage		1,572 4,456 4,462	1,883 4,247 4,065	1,260 4,666 4,858
Total digestible nutrients* T.D.N. per lb. B. F. % T.D.N. that is protein		4,072 23.2 13.7	4,226 20.0 13.8	3,918 26.4 13.6
Feed cost per cow: Concentrates Roughages Pasture TOTAL FEED COSTS \$		\$12.89 17.68 <u>5.72</u> \$36.29	\$14.92 17.11 <u>5.82</u> \$37.85	\$10.86 18.26 5.61 \$34.73
Value of produce per cow: B. F. sales Dairy produce used in house Milk to livestock Net increases in value of cows TOTAL VALUE PRODUCED \$		\$50.74 4.09 10.06 <u>3.09</u> \$67.98	\$60.01 4.82 11.54 <u>5.46</u> \$81.83	\$41.48 3.35 8.58 .73 \$54.14
RETURNS ABOVE FEED COST PER COW \$_		\$31.69	\$43.98	\$19.41
RETURNS FOR \$100 OF FEED \$_		\$193	\$227	\$159
Price received per 1b. B. F. sold As manufacturing cream (cents) As mkt. mk.& cm.& mk.for cheese(cts)		32.2 37.0	32.3 42.5	32.0
Feed cost per 1b. B. F. (cents)	·	20.6	17.9	23.3
% fall freshening	,	47.1	51.7	42.6
Number of cows	in the state of th	14.6	14.4	14.9

^{*}Not including nutrients received from pasture.

Items			Your farm	Average of 18 farms	Cattle, 191 9 Farms highest in returns above feed	9 Farms lowest in returns above fee
Feeds per head, 11	he •					
Concentrates		Acres ex rees you and acres		609	673	545
Hay and fodder				1509	1304	1714
Silage		The second second second	the second secon	1518		1912
Whole milk	2.5		description and acting control distribution	.188	183	193
Skimmilk		1. 1	and the second s	875	723	1027
Feed cost per head	4 •	torre ,				
Concentrates		* * *	\$	\$4.74	\$5,25	\$4.23
Roughages	1	•	Ψ	5.91	4.47	7.36
Milk			gargation migdens a given in describe a second marge	4.02	3.5 ¹ 4	4.52
Pasture				3.40	3.51	3.28
TOTAL FEED (COSTS		\$	\$18.07	\$16.77	\$19.39
Net increase in va	alue	en e		\$30.81	\$37.67	\$23.95
RETURNS ABOVE FEET	O COST PER	HEAD	\$	\$12.74	\$20.90	\$ 4.56
RETURNS FOR \$100 C	OF FEED		\$	\$183	\$24,4	\$123
Number of head				25.6	26.4	24.8
Fee	ed Costs ar	nd Returns			4	
		that have given	Your	Average of 18	9 Farms highest in	9 Farms lowest in
		the second second second	farm	farms	returns	returns
Items			· ·	./1	above feed	above fee
	The second secon				The street was a series of the	
foode non enimal i	init : lbs :	•				
		• · · · · · · · · · · · · · · · · · · ·		i nava		· · · · · · · · · · · · · · · · · · ·
Concentrates	The second secon	Provider and specifical and a second second	***************************************		1	
Concentrates Hay and fodder		• Common de la	2	3709	3430	3988
Hay and fodder Silage	to the second consequence of	·	3			
Concentrates Hay and fodder Silage Feed cost per anim	to the second consequence of			3709 3743	3430 4333	3988 3152
Concentrates Hay and fodder Silage Feed cost per anim Concentrates	to the second consequence of		\$	3709 3743 \$11.38	3430 4333 \$13.64	3988 3152 \$ 9.13
Concentrates Hay and fodder Silage Feed cost per anim Concentrates Roughages	to the second consequence of		\$	3709 3743 \$11.38 14.65	3430 4333 \$13.64 14.16	3988 3152 \$ 9.13 15.14
Concentrates Hay and fodder Silage Feed cost per anim Concentrates Roughages Pasture	nal unit:		\$	3709 3743 \$11.38 14.65	3430 4333 \$13.64	3988 3152 \$ 9.13 15.14 6.04
Concentrates Hay and fodder Silage Feed cost per anin Concentrates Roughages Pasture TOTAL FEED (nal unit:		\$	3709 3743 \$11.38	3430 4333 \$13.64 14.16	3988 3152 \$ 9.13 15.14
Concentrates Hay and fodder Silage Feed cost per anin Concentrates Roughages Pasture TOTAL FEED (Value of produce p	nal unit:		\$	\$11.38 14.65 <u>6.07</u> \$32.10	3430 4333 \$13.64 14.16 6.10 \$33.90	3988 3152 \$ 9.13 15.14 6.04 \$30.31
Concentrates Hay and fodder Silage Feed cost per anim Concentrates Roughages Pasture TOTAL FEED Concentrates	nal unit: COSTS per animal		\$	\$11.38 14.65 6.07 \$31.50	3430 4333 \$13.64 14.16 6.10 \$33.90 \$35.96	3988 3152 \$ 9.13 15.14 6.04 \$30.31
Concentrates Hay and fodder Silage Feed cost per anim Concentrates Roughages Pasture TOTAL FEED (Value of produce p Dairy products Net increase in	nal unit: COSTS per animal		\$	\$11.38 14.65 6.07 \$31.50	3430 4333 \$13.64 14.16 6.10 \$33.90 \$35.96	3988 3152 \$ 9.13 15.14 6.04 \$30.31
Concentrates Hay and fodder Silage Feed cost per anin Concentrates Roughages Pasture TOTAL FEED (Value of produce p Dairy products Net increase in	nal unit: COSTS per animal r value PRODUCED	unit:	\$ \$ \$ \$ \$ \$	\$11.38 14.65 <u>6.07</u> \$32.10	3430 4333 \$13.64 14.16 6.10 \$33.90	3988 3152 \$ 9.13 15.14 6.04 \$30.31
Concentrates Hay and fodder Silage Feed cost per anim Concentrates Roughages Pasture TOTAL FEED Value of produce p Dairy products Net increase in TOTAL VALUE	nal unit: COSTS Der animal PRODUCED O PER ANIMA	unit:	\$ \$ \$	\$11.38 14.65 6.07 \$31.50 28.11 \$59.61	3430 4333 \$13.64 14.16 6.10 \$33.90 \$35.96 34.88 \$70.84	\$ 9.13 15.14 6.04 \$30.31 \$27.05 21.35 \$48.40
Concentrates Hay and fodder Silage Feed cost per anim Concentrates Roughages Pasture TOTAL FEED (Value of produce p Dairy products Net increase in	nal unit: COSTS Der animal PRODUCED O PER ANIMA	unit:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$11.38 14.65 6.07 \$32.10 \$31.50 28.11 \$59.61 \$27.51	3430 4333 \$13.64 14.16 6.10 \$33.90 \$35.96 34.88 \$70.84 \$36.94	3988 3152 \$ 9.13 15.14 6.04 \$30.31 \$27.05 21.35 \$48.40 \$18.09

The second comes is the second control of th

Items		of all farms	highest in returns	lowest in returns
- vomb		larms	above feed	
Beef breeding herd: no. of farms:		14	7	7
Feeds per animal unit, lbs.:				
Concentrates	***************************************	1328	1551	1105
Legume hay Other hay		1442 1442	1936 11 71	912 1714
Fodder and stover		411	409	411
Silage		2725	2862	2589
Feed cost per animal unit:				
Concentrates	\$	\$11.37	\$13.79	\$ 8.95
Roughages	T and the agent of	11.23	12.77	9.69
Pasture		3.42	3.60	3.24
TOTAL FEED COSTS	\$	\$26.02	\$30.16	\$21.88
Value of produce per animal unit:			A.	
Dairy products	\$	\$ 1.56		\$.87
Net increase in value of animals TOTAL VALUE PRODUCED	ji	35.08 \$36.64	49.68	20.46
	-		\$51.94	\$21.33
RETURNS ABOVE FEED COST PER ANIMAL UNIT	\$	\$10.62	\$21.78	\$55
RETURNS FOR \$100 OF FEED	\$	\$148	\$202	\$95
Number of cows and herd bulls	-	12.4	7.8	17.0
Number of Animal Units in the Herd		24.3	20.8	27.8
Feeder cattle: no. of farms:		29	10	10
Feeds per cwt. beef produced, 1bs.:		*	_	
Corn		61.0	527	795
Small grain	***************************************	126	109	167
Com. feeds - under 25% protein Com. feeds - over 25% protein		12 16	20 °	21
Legume hay	the simulature in the second sector of	206	20 214	15 226
Other hay	***************************************	160	99	292
Fodder and stover	**************************************	27	13	50
Total concentrates		764	668	998
Total dry roughages	**************************************	393	326	568
Silage		401	180	354
% of T.D.N. in ration that is protein		11.3	11.7	11.4
Feed cost per cwt. beef produced: Concentrates	\$	\$ 6.00	\$ 5.32	\$ 7.87
Roughages	Ÿ 	1.53	₽ 9.36 1.19	Ψ 7.87 1.81
Pasture		.17	.06	. 20
TOTAL FEED COSTS	. \$	\$ 7.70	\$ 6.57	\$ 9.88
Net increase in value of feeders	\$	\$11.67	\$14.03	\$10.25
RETURNS ABOVE FEED COST PER CWT.BEEF PRODU	CED_	\$ 3.97	\$ 7.46	\$.37
RETURNS FOR \$100 OF FEED	\$	\$172	\$230	\$114
Prince received	\$	\$ 8.67	\$ 9.52	\$ 7.78
Price received per cwt. beef sold No. of animal units	·	20.8	35.9	

Concentrates Roughages Rou	Feed Costs and Retur	Your farm	Average of all farms	Farms highest in returns above feed	returns
Concentrates			. 58	12	12
Roughages	Concentrates Legume hay Other hay Fodder and stover		206 55 45	217 3 59	199 79
Wool \$ \$2.25 \$2.28 \$2.09 Not increase in value of sheep 3.79 6.47 1.08 TOTAL VALUE PRODUCED \$ \$6.04 \$8.75 \$3.17 RETURNS ABOVE FEED COST PER HEAD \$ \$3.43 \$6.09 \$6.63 RETURNS FOR \$100 OF FLED \$ \$245 \$351 \$140 Value per lamb sold \$ \$6.69 \$7.55 \$5.68 Frice per lb, wool sold (cts.) 30.7 31.0 30.6 Frice per lb, wool sold (cts.) 30.7 31.0 30.6 Frice per lb, wool sold (cts.) 30.7 31.0 30.6 Frice per lb, wool sold (cts.) 30.7 31.0 30.6 Frice per lb, wool sold (cts.) 30.7 31.0 30.6 Frice per lb, wool sold (cts.) 30.7 31.0 30.6 Frice per lb, wool sold (cts.) 30.7 31.0 30.6 Frice per lb, wool sold (cts.) 30.7 31.0 30.6 Frice per lb, wool sold (cts.) 30.7 31.0 30.6 Frice per lb, wool sold (cts.) 30.7 31.0 30.6 Frice per lb, wool sold (cts.) 30.7 31.0 30.6 Frice per lb, wool sold (cts.) 30.7 31.0 30.6 Frice per lb, wool sold \$ \$9.12 Frice per lb, wool sold \$ \$9.05 Frice per lb, w	Concentrates Roughages Pasture	\$ \$	1.02	.99 1.01	1.01 91
RETURNS FOR \$100 OF FEED \$ \$245 \$351 \$140 Value per lamb sold \$ \$6.69 \$7.55 \$5.68 Price per lb. wool sold (cts.) 30.7 31.0 30.6 Number of ewes kept for lambing 25.3 26.5 19.8 1 lamb crop 106.0 118.3 74.3 1 death loss 17.9 15.8 25.0 No. of head of sheep* 37.6 38.8 28.7 Feeder sheep: no. of farms: 4 Feeder sheep: no. of farms: 4 Feeder sheep: no. of farms: 927 Legume hay 322 Other hay 68 Fodder and stover 31age 7 Feed cost per head: Concentrates \$7.15 Roughages 1.43 Pasture 54 TOTAL FEED COSTS \$9.12 Net increase in value of sheep \$7.76 RETURNS ABOVE FEED COST PER CWT.PRODUCED \$9.03 Price per cwt. sheep sold \$9.03 \$9.03 \$9.03 \$9.04 \$9.05 \$9.06 \$9.07 \$9.08 \$9.09 \$9.00 \$	Wool Net increase in value of sheep	\$\$		6.47	1.08
Value per lamb sold \$6.69 \$7.55 \$5.68 Price per lb. wool sold (cts.) 30.7 31.0 30.6 Number of ewes kept for lambing 25.3 26.5 19.8 % lamb crop 106.0 118.3 74.3 % death loss 17.9 15.8 25.0 No. of head of sheep* 37.6 38.8 28.7 Feeder sheep: no. of farms: 4 Feeder sheep: no. of farms: 4 Feeder sheep: no. of farms: 927 Concentrates 927 Legume hay 68 Fodder and stover 49 Silage 7 Feed cost per head: 57.15 Concentrates \$7.15 Roughages 1.43 Pasture .54 TOTAL FEED COSTS \$9.12 Net increase in value of sheep \$7.76 RETURNS ABOVE FEED COST PER CWT.PRODUCED \$-1.36 RETURNS FOR \$100 OF FEED \$90 Price per cwt. sheep sold \$9.03 % death loss 3.5 % of T.N. in ration that is protein<	RETURNS ABOVE FEED COST PER HEAD	\$	\$3.43	\$6.09	\$.63
Feeder sheep: no. of farms: 4 Feeds per cwt. sheep produced, lbs.: 927 Concentrates 927 Legume hay 322 Other hay 68 Fodder and stover 49 Silage 7 Feed cost per head: Concentrates Concentrates \$ \$7.15 Roughages 1.43 Pasture 54 TOTAL FEED COSTS \$ 99.12 Net increase in value of sheep \$ 7.76 RETURNS ABOVE FEED COST PER CWT.PRODUCED \$ -1.36 RETURNS FOR \$100 OF FEED \$ 990 Price per cwt. sheep sold \$ 9.03 % death loss 3.5 % of T.D.N. in ration that is protein 11.9 Founds of sheep produced 8630	Value per lamb sold Price per lb. wool sold (cts.) Number of ewes kept for lambing % lamb crop	\$	\$6.69 30.7 25.3 106.0	\$7.55 31.0 26.5 118.3	\$5.68 30.6 19.8 74.3
Feeds per cwt. sheep produced, lbs.: Concentrates	No. of head of sheep*	***	37.6	38.8	28.7
Feeds per cwt. sheep produced, lbs.: Concentrates	To don about 100 of Court		V.		
Concentrates Roughages Pasture TOTAL FEED COSTS S S9.12 Net increase in value of sheep S RETURNS ABOVE FEED COST PER CWT.PRODUCED S S-1.36 RETURNS FOR \$100 OF FEED S Price per cwt. sheep sold \$ \$9.03 % death loss % of T.D.N. in ration that is protein Pounds of sheep produced \$ \$7.15 1.43 2.54 59.12	Feeds per cwt. sheep produced, lbs.: Concentrates Legume hay Other hay Fodder and stover Silage		927 322 68		
RETURNS ABOVE FEED COST PER CWT.PRODUCED \$ 3-1.36 RETURNS FOR \$100 OF FEED \$ \$90 Price per cwt. sheep sold \$ 9.03 % death loss 3.5 % of T.D.N. in ration that is protein 11.9 Pounds of sheep produced 8630	Concentrates Roughages Pasture	\$ 		10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	te se da la composition de la composition della
RETURNS FOR \$100 OF FEED \$ \$ \$90 Price per cwt. sheep sold \$ \$9.03 % death loss \$ 3.5 % of T.D.N. in ration that is protein 11.9 Pounds of sheep produced \$ 8630	Net increase in value of sheep	\$	\$ <u>7.76</u>	the state of the state of	
Price per cwt. sheep sold \$ \$9.03 % death loss \$ 3.5 % of T.D.N. in ration that is protein 11.9 Pounds of sheep produced \$ 8630	RETURNS ABOVE FEED COST PER CWT.PRODUCED	\$	\$-1.36		<i>:</i>
% of T.D.N. in ration that is protein 11.9 Pounds of sheep produced 8630		\$		e Santa Santa Santa Santa Alife Santa Santa Santa S	**************************************
三、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一	% of T.D.N. in ration that is protein		11.9 8630		

Feed Costs and Returns Front Ifems	Your farm	Average of all farms	Farms highest returns	Farms in lowest in returns ed above feed
Hogs: no. of farms:		143	29	29
Feed per cwt. hogs produced, 1bs.:				
Corn		308	230	431
Small grain Com. feeds - under 25% protein		134	111	17 ⁴ 1
Com. feeds - over 25% protein		. 3 9	9	15
Total concentrates Skimmilk		454 262	355 141	621 363
Feed cost per cwt. hogs produced: Concentrates Skimmilk	\$	\$3.55 .39	\$2.77 .21	\$4.91 .5 ⁴
Pasture TOTAL FEED COSTS	\$	\$4.11	\$3.14	\$5.66
Net increase in value per cwt. hogs prod	. \$	\$ <u>5.61</u>	\$5.91	\$ <u>5.44</u>
RETURNS ABOVE FEED COST PER CWT.HOGS PROD	. \$	\$1.50	\$2.77	\$-,22
RETURNS FOR \$100 OF FEED Price received per cwt. hogs sold	\$	\$144 \$5.27	\$189 \$5.47	\$99 \$5,20
Total no. of litters raised No. of pigs weaned per litter % of two-litter system Pounds of hogs produced		12.4 6.3 56.0 18,184	12.5 6.4 63.0 20,686	11.2 5.7 51.0 13,632
Chickens: no. of farms:	. i . i . i	133	27	27
Feed per hen, lbs.: Concentrates Skimmilk		119 26	135 26	
Feed cost per hen:			2	
Concentrates Skimmilk TOTAL FEED COST	\$	\$1.32 •.04 \$1.36	\$1.52 .04 \$1.56	\$1.21 <u>.04</u> \$1,25
Value of produce per hen: Eggs sold and used in house Net increase in value of chickens TOTAL VALUE PRODUCED	\$	\$1.82 .46 \$2.28	\$2.45 1.13 \$3.58	
RETURNS ABOVE FEED COST PER HEN	\$	\$.92	\$2,02	\$05
RETURNS FOR \$100 OF FEED Price rec'd per doz. eggs sold (cts.) Eggs laid per hen No. of hens % of hens that are pullets	Accordance and the second	\$170 16.5 131 219 79	\$237 17.4 168 205 87	15.7 88 172

Feed Costs and Retu		Average	4 Farms highest in returns	4 Farms lowest in returns above feed
Feed per cwt. turkeys produced, lbs.: Grain Com. feeds - under 25% protein Com. feeds - over 25% protein		456 89 160	378 90 167	562 92 138
Total concentrates Skimmilk		705 51	635 15	792 96
Feed cost per cwt. turkeys produced	\$	\$9.06	\$8.17	\$9.94
Value of produce per cwt. turkeys prod. Eggs and poults Net increases in turkeys TOTAL VALUE PRODUCED	\$ \$	\$2.73 12.63 \$15.36	\$4.41 13.10 \$17.51	\$1.63 <u>11.68</u> \$13.31
ETURNS ABOVE FEED COST PER CWT. TURKEYS PRODUCED	\$	\$ 6.30	\$9.34	\$3.37
eturns for \$100 feed	S	\$173	\$211	\$1.37
rice rec'd per lb. turkey sold (cts.)		16.0		15.0
ounds of turkeys produced				23,671

Items		2-01503 2410	Misc. Power Your farm	Average of 147 farms*	30 most profit- able farms	29 least profit- able farms*
Feed per horse Grain Hay Fodder and				1991 4395 498	2199 49.68 256	1736 4430 594
Feed costs per Grain Roughage Pasture TOTAL FE	horse:		\$ <u>.</u>	\$15.48 12.57 3.28 \$31.33	14.16 2.86	\$13.67 13.18 3.65 \$30.50
Number of work Number of colt		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		4.1 1.0	4.5 1.2	3.7
Crop acres per Tractor and ho Crop and gener	rse exp. p	er crop ac	re \$	148.1 \$2.39 1.23	199.7 \$2.42	124.7 \$2.90 1.35

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^{*} One farm did not have horses.

** Two colts equal one horse,

Farm Produce Used in House and House Rental, 1940

The state of the second		Quan	tities	•	e garani e	Va	ılue	-
Items	Your farm	Average 148		30 least profit- able farms		Average 148 farms		30 least profit- able farms
Wholemilk Skimmilk Cream Farm made butter Eggs Cattle Hogs Sheep Poultry Potatoes Vegetables & fruits Farm fuel Rental vl.of house Misc.(wool,honey,etc.	7	1,213 qts. 253 qts. 289 pts. 2 lbs. 191 doz. 308 lbs. 595 lbs. 12 lbs. 35 head 25 bu.	217 419 0 235 328 700 23 1 36 37	968 375 224 0 173 375 481 6 .36 18		\$36.69 .81 30.33 .74 32.02 20.52 32.08 .61 14.44 15.03 39.49 27.92 207.36 .23	.70 42.72 0 39.81 22.33 37.74 1.14 15.60 21.87 44.98 33.53	\$28.88 1.21 22.96 .03 28.98 24.22 25.86 .33 14.55 10.69 34.57 26.45 203.26
Total	,			·	**************************************	458.27	512.33	421.99

Household and Personal Expenses For Those Farms Which Kept Complete Accounts of these Expenses, 19 least Your Average 19 most profitfarm of 95 profitfarms able able farms farms Number of persons - family 4.2 4.7 3.5 Number of persons, (Family 3.2 2.7 adult equivalent (Other* 1.0 Food and meals bought \$254 \$294 \$319 Operating and supplies 118 139 105 Clothing and clothing materials 106 124 121 Personal care, personal spending 44 .28 36 Furnishings and equipment 97 111 63 Education, recreation and development 61 67 57 Medical care and health insurance 69 90 83 Church, welfare, and gifts 74 66 107 Personal share of auto expense 101 101 101 Household share of elect. & gas eng. exp. 38 41 36 -H.H. & pers. shr. of new auto, gas eng. & motors bot 100 140 65 Life insurance and other investments 164 125 177 Total household and personal cash expenses 1,434 1,083 1,305 Food furnished by the farm 240 189 288 Fuel furnished by the farm 26 30 19 House rental 199 194 .182 Total household and personal expenses 1,946 1,473 1,770

*Hired help or others boarded.

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Miscellaneou	s Informatio	n – Avera	ged by Co	ounties	940	و المارية الما	41.00
	Dodge,		25				of a man de control of the confirmation of the company of
The Annal State authorise (State of (S) is (S)	Mower,	# 120g	3 * of 1 of 2	£ 1, 1, 2, 1	Rice,	ال المراجعة	
(a) sweets seats pages	Olmsted and	Free-	Good-	yr 1 Ge√ Malaol	i Dakota - and		1839 - 11868 1
Item	Wabasha	born	hue	let		Staple	Waseca Le Sueur
The state of the property of the gapes.	***************************************		200			* 134 3	
Operator's labor earnings	\$ 1,626	\$ 1,755	\$ 1,575				7\$22,028 Feb
Average farm inventory - beginning of year	52,482	22.181	21,783	26,442	23,018		-26,542
Total acres in farmes and see	223	223	213		c)ກ <i>ີ</i> ບໍ່209	`ິວ ໌ 22 8 :	`S≷& 239 -355
Total crop acres	141	143	136	209	ુ: 128	130 148	154
% of land tillable	_{6.0.1} 78	73	79	76	70	74	· 69 🚉
Animal units of productive livestock	46.1	47.1	38.3	57.6	¥0.1	45.6	^{) 동일} 51.1 의문
% of angunits that are dairy & milk-beef cow	s 42.1	40.4	48.8	33.7	¥1.4	40.2	35.6
% of an: units that are other dairy & milk-be	ef cat. 24.7	20.9	23.9	18.9	21.2	21.0	19.8
% of an: units that are in beef breeding herd	11.4	4.9	<u>.</u> 0	੍ូ6 . 2	5.9	2.8	340 7 368
% of an units that are feeder cattle	<u> </u>	2.9	1.5	9.7	- : : : : : : : : : : : : : : : : : : :	7 11	- VM - 7 - 7 - 2 K
% of an units that are native sheep	5.3	·· 5 . 3	6.5	- 2.1	2.8	5.0	5.0
% of an units that are feeder sheep	2.3	9 - 0	. 0	201 0	14.3	34g 0	
% of an units that are hogs	15.5	20.4	11.2	24.5	14.3	23.5	20.9
of angunits that are turkeys	€.9	/ O	1.6		3. 9) 	4.2
310% of an units that are hens	<i>≥</i> 3.6	5.2	6.5	4.9	4.9	6.1	6.2
Crop yields, per cent of average	92.0	93.0	94.0	104.0	103.0	112.0	109.0 \$5
% of tillable land in high return crops	34.0	39.1	45.1	39.8	اللاء	47.5	35 46.2 so
Index of return for \$100 feed to prod. livestock		96.0	104.0	87.0	104.5	97.0	
Productive livestock units per 100 A,	23.4	24.8	21.1	24.9	22.3	23:4	
Work units	646.0	656.0	632.0	695.0		684.0	
Work units per worker	304.0	325.0	252.0	58,40	268.0	292.0	310.0
Expenses per work unit	\$1.74	\$1.49	\$1.43	\$1,54	- \$1,86 _.	\$1.67	\$1.68
Price rec. per 1b. butterfat sold to creameries	\$.32	\$. 33	\$3.32	\$.32	T-\$.32	\$1.67	\$.33
Price rec. per cwt. hogs sold	5.25	~5.31	்5, 22	50.5.14	5.36	5.46	5.17
Price rec, per doz. eggs sold	.16	.17	.17	.15	366 .17 }	5 .17-	.17
Yield per acre, corn, bu.	551.3	5- 53.6	6013	56 2.	579		
Yield per acre: barley, bu,	\$2.00 -38 . 9	38.1	35.2	47.8	57.9 40.2	59.8 46.1	43.17
Yield per acre, onts, bu.	53.5	56.0	50.8	67:2	57.8	70.2	
Yield per acre, flax, bu.	10.4	10.0	12.0	9.1	10.0	12.7	12.4
Yield per acre, alfalfa, tons	1.9	1.9	2,1	2.5	2,6	2.7	2.7

	Ounner	y by rear	3					. 1
	Average	Average	Average				-	
	1928-29	1930-32	1933-35	<u> 1936</u>	1937	1938	1939	1940
			-					
Number of farms	148	157	126	152	166	122	154	148
Acres in farm	170	194	204	207	213	54 1	225	. 225
Crop acres in farm	116	134	140	138	143			148
Farm inventory	\$24,574	\$21,767	\$17,045	\$20,343	\$20,723	\$22,704	\$20,480	\$24,04
Farm Earnings (See page 29)								
FARM EXPENSES	•	. •						
Horses bought	\$ 36	\$ 32.	\$ 39	\$ 54	\$ 48	\$ 36	\$ 28	\$ 2
Cattle bought	141	79	121	182	181	217	299	- 60
Hogs bought	85 6	69	49	62	77	65	62 .	. 6
Sheep bought	. 6.	10	65	69	39	110	98	8
Poultry bought	37	39	49	73	71	100	95	10
Misc. crop expenses	186	177	154	187	215	278	235	18
Feed bought	7170	324	343	534	627	603	475	· 60
Power mach. (new & exp.) (farm share)	399	340	342	597	654	578	530	60
Custom work hired	•	: -	·			_		12
Crop & gen. mach. & livestock equip. (new)	190	132	139	276	335	330	261	1 29
Crop & gen. mach. & livestock equip. (upkeep)	72	57	55	60	72	78	65	6
Building, fencing, tiling (new)	130	98	99	263	. 246		250	35
Buildings, fencing, tiling(upkeep)	52	29`	41	• 63	96	114	69	8
Hired labor	272	252	. 261	374	433	519	340	710
Taxes and insurance	298	338	269	268	274	. 322	285	27
General farm	30 66	31 72	26	28	μī	140	_ 36	<u> </u>
Miscellaneous livestock expense		•	55	. 83	· 83	130	110	7
(1) Total farm purchases	2,440	2,079	2,107	3,173	3,492	3,802	3,238	3,98
(2) Decrease in farm capital	œ-s	755	-4	-		22		
(3) Board furnished hired labor	102	93	91	153	149	174	128	14
(4) Interest on farm capital	1,228	1,089	852	1,017	1,036	1,135	1,024	1,20
(5) Unpaid family labor	358	292	220	247	254	231	236	269
			and the state of t		** .			

4,128

(6) Total farm expense (Sum of (1) to (5)

4,308 3,270 4,590 4,931 5,364

Summary by Years

8

4,626

1000

5,598

Summary by Year's (Continued)	entres i a garandos na pro-	to the training of the second second of the	en e	Mark to a granular grant			t seeks, in a		
Summary by Years (Continued) FARM RECEIPTS Horses Cattle Dairy products Hogs Sheep Poultry		30 753 1,662 1,164 52 140 275	30 467 1,209 950 39 139 232	32 457 1,207 635 125 221 305	55 545 1,669 1,198 231 364 405	75 754 1,598 1,204 147 424	51 838 1,509 1,248 217 520 378	45 813 1,170 926 216 344 301	48 1,176 1,454 984 162 339
Ergs Corn Small grain Other crops Misc. Income from work off farm Agric. Adjustment payments		275 37 241 163 134 102	39 140 170 151 112	96 272 155 135 132 204	177. 543. 154. 226. 140. 182.	166 378 177 292 203 169	190 244 185 314 219 223	142 274 157 231 136 336	128 235 250 295 148 324
(7) Total farm sales(8) Increase in farm capital(9) Farm prod. used in house + house rental	2000 1381 2000 1381 1000 200	4,753 617 325	3,678 248	3,976 470 227	5,889 1,316 299	5,964 139 290	6,136 - 252	5,091 891 260	5,948 1 1,017 N 458 1
(10) Total farm receipts (6) Total farm expenses (11) Operator's labor earnings	7 (2.2) (2.2) (3.2) (3.2) (4.2) (4.2) (4.2)	5,695 4,128 1,567	3,926 4,308 - 382	4,673 3,270 1,403	7,504 4,590 2,914	6,393. 4,931 1,462	5,364	6,242 4,626 1,616	7,423 5,598 1,825
MISCELLANEOUS ITEMS			*				a 189		
Yield per acre, corn (bu.) Yield per acre, barley (bu.) Yield per acre, oats (bu.) Yield per acre, alfalfa (tons)		44.8 36.0 46.0 3.0	43.5 30.1 48.1 2.6	44.5 23.5 34.8 2.3	21.5 36.0	43.8 30.0 48.1 2.1	28.2 35.9	59.0 33.5 48.5 2.2	56.3 41.0 58.2 2.3
% of till. land in high return crop Productive livestock units per 100 A. No. of work units Work units per worker Pow., mach., equip., & bldg.exp.per work unit	78 (1.08) 28 (1.12) 28 (1.12) 28 (1.12) 28 (1.12) 28 (1.12)	31.9 19.2 599 310 \$1.76	34.1 20.7 729 339 \$1.34	39.0 19.9 756 328 \$1.18		40.9 19.6 783 339 \$1.44	41.3 19.7 866 360 \$1.44	40.8 18.5 759 349 \$1.41	41.4 23.4 658 292 \$1.66
No. of farms with tractors No. of work horses		80 5.4	101 5.4	90 5.2	122	142 4.5	114.4	134 4.1	134

Summary by Years (continued)

		(
	Average		Average					
Miscellaneous items (continued)	1928-29		1933-35		1937	1938	1939	1940
No. of colts	.8	.8	.8		1.3	1.3	1.1	1.0
No. dairy & milk-beef cows	14.2	17.1	18.5	18.0	17.6	18.6	17.2	17.1
No. of litters of pigs	9.3	11.7	8.7	9.2	8.7	11.1	11.5	12.1
Pounds of hogs produced	12,706	16,219		12,786	12,770	15,948	16,014	17.671
No. of head of wheep	7.0	11.5	17.4	19.2	16.3	23.3	16.2	18.6
No. of hens.	136	, 1 56	183	183	192	187	177	197
Pounds of B. F. per dairy cow	544.0	541.0	235.5	243.2	231.6	239.8	245.0	260.0
Pounds of B. F. per milk and beef cow	-		-		_			181.0
No. of pigs per litter	6.3	6.2	6.1	6.4	6.3	6.7	6.3	6.3
No. of eggs laid per hen	94.6	111.7	122.3	131.0	130.0	135.0	126.0	131.0
Price rec'd per 1b. B. F. sold	\$.52	\$.30	\$.28	\$.37	\$.39	\$.31	\$.28	\$33
Price rec'd per cwt. hogs sold	- 8.92	5.82	5.39	9.26	9.47	7.69	6.17	5.27
Price rec'd per cwt. feeder cattle sold	-	,	↔	-	•••		gang	8.67
Am't. received per lamb sold	9.78	4.64	5.55	6.95	7.38	6.04	6.48	6.69
Price received per 1b. wool sold	.36	•13	351	.29	•32	.18	.26	.31
Price received per doz. eggs sold	.28	.17	.16	.20	.19	.18	.15	.17
Price received per 1b. turkey sold			.20	.18	.21	.20	.17	.16
Ret. above feed cost per dairy cow	\$76.50	\$28.16	\$32.76	\$62.25	\$52.56	\$47.89	\$45.05	\$58.05
Ret. above feed cost per milk and beef cow		-		•	•		-	31.69 %
Ret. above feed cost per cwt. hogs prod.	1.50	.30	1.82	3.17	2.48	3.47	1.82	1.50 1
Ret. above feed cost per headsheep	5.50	07	2.24	3.54	3.63	1.28	3.18	3.43
Ret. above feed cost per hen	1.82	1.13	1.05	1.07	.83	1.12	•97	•92
Ret. above feed per cwt. turkeys prod.	, m	-	11.59	5.66	12.53	12.38	8.27	6.30
Feed cost par dairy cow	\$ 69 . 50	\$52.27	\$43.37	\$43.70	\$51.29	\$40.55	\$38.67	\$43.22
Feed cost per milk and beef cow					4 4 4 4 444	· · ·		36.29
Feed cost per cwt. hogs produced	7.66	4.50	4.36	6.27	. 6.33	3.86	3.51	4.11
Feed cost per head of sheep	2.82	2.26	2.59	2.46	2.53	2.37	2.33	: 2,61
Feed cost per hen	1.62	1.09	1.36	1.83	1.82	1.30	1.23	1.36
Feed cost per cwt. turkeys prod.			7.70	10.00	8.32	7.75	7.00	9.06
Feed cost per horse	55 .0 9	36.13	3 7. 52	38.60	40.95	29.94	27.61	31.33
Price of feed sh. corn (per bu.)	\$.70	\$.49	\$.48	\$.72	\$.78	\$.43	\$. 36	\$46
Price of feed, barley (per bu.)	.60	.36	•53	.60	.60	• 39	.30	.31
Price of feed, oats (per bu.)	.48	.25	.29	.30	• 35	.22		• 56
Price of feed, bran (per cwt.)	1.70	1.00	1.05	1.30	1.45	1.05	1.10	1.20
Price of feed, oilmeal (per cwt.)	3.00	2.00	1.85	2.15	$2.1\dot{5}$	2.30	2.15	1.75
Price of feed, alfalfa (per ton)	14.75	12.00	10.80	8.00	11.00	7.50	7.00	7.50
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Footnote for pages 26, 27 and 28.

The values of farm real estate in 1931 were reduced approximately 25 per cent from 1928-1930 values. The values in 1932 were reduced about 29 per cent from the 1931 values. Only land was affected by the reduction in 1931, but in 1932 buildings and improvements were cut 25 per cent. In 1936 the values of farm real estate were adjusted upward 10 per cent, only land being affected by the increase. The value of dairy cows was also adjusted downward in 1932 and upward in 1936. These capital losses were not included in the inventory decreases in the financial statement but the changes in valuation resulted in variations in the interest charge. No changes in the basis of inventory valuations were made in the years 1933 to 1935 and 1937 to 1940.

The financial statements differ also in that the unpaid family labor rate was \$60 per month for the 1928 to 1930 period, \$40 in 1931, \$30 in 1932 to 1934, \$40 in 1935, \$43 in 1936, and \$45 in 1937 to 1940; and the board for hired labor was figured at \$20 per month in the 1928 to 1930 period, \$15 per month in 1931, \$10 per month in 1932, 1933 and 1934, \$15 per month in 1935, and \$18 per month in the years 1936 to 1940.

These adjustments should be considered in comparing 1940 results with previous years.

None of the wheat adjustment payments received under A.A.A. contracts were included in farm receipts for 1933. The wheat payments represent remuneration to the producer for adjustments made in 1934 and 1935 and are, therefore, credited in these years. One-half of the total amount that is due for the full period of the contract was credited as income in 1934 and the remaining one-half in 1935. All of the money received or due under the 1934 corn-hog and sugar-beet contracts was credited as income in 1934 even though final payments for 1934 were not made till 1935. Likewise, all of the money received or due under the 1935 corn-hog and sugar-beet contracts was credited as income in 1935, and all the money due as agricultural conservation payments for the years 1936 to 1940 was credited as income in the years 1936 to 1940, respectively.

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 or 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 are added. Cattle have been classified into two groups "specialized dairy cattle" and "milk- and-beef cattle". Separate statements are presented for these groups. Statements for beef breeding cattle, feeder cattle and feeder sheep are also included.