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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
Brown, Cottonwood, Faribault, Jackson, Lincoln, Lyon, Martin, Murray,
Nobles, Pipestone, Redwood, Rock, and Watonwan Counties
and the
Southwest Minnesota Farm Management Association
Cooperating

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Annual Report
of the
Southwestern Minnesota
Farm Management Service
1942

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Cooperator:

Mimeographed Report No. XXX 138
Division of Agricultural Economics
University Farm
St. Paul, Minnesota
May 1943

Third Annual Report of the Southwest Minnesota Farm Management Service of Brown, Cottonwood, Faribault, Jackson, Lincoln, Lyon, Martin, Murray, Nobles, Pipestone, Redwood, Rock, and Watonwan Counties for the Year 1942

Prepared by T. R. Nodland, G. E. Toben, and G. A. Pond

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#### INTRODUCTION

The Division of Agricultural Economics and the Division of Agricultural Extension of the University of Minnesota, the Bureau of Agricultural Economics of the United States Department of Agriculture and the county extension services of several southwestern Minnesota counties are cooperating with the Southwest Minnesota Farm Management Association in maintaining a farm management service. The Association was organized in the fall of 1939 by farmers in that part of the state for the purpose of studying the farm business thru farm records. Each farmer pays an annual fee which covers a part of the cost. The balance of the cost is defrayed by the University of Minnesota.

Note: Assistance in the preparation of this material was furnished by workers supplied on N.Y.A. Student Work Project No. 493-70. Sponsor: University of Minnesota.

The analysis of the records and the preparation of the reports are handled by the Division of Agricultural Economics under the direction of G. A. Pond, T. R. Nodland, and G. E. Toben. Field organization is handled by the Extension Division with S. B. Cleland and J. B. McNulty in charge of this work. Ross Huntsinger was the fieldman in 1942. County agricultural extension agents who cooperate in this project include Paul Kunkel, E. C. Rogers, C. G. Gaylord, Roland Abraham, T. G. Fuller, F. J. Meade, S. B. Simpson, A. B. Hagen, C. E. Stower, C. C. Chase, J. I. Swedberg, C. R. Simon, and Wayne Hanson.

The officers for the Southwest Farm Management Association for 1942 were:

President, Milford Davis, Reading, Nobles County Vice-President, W. J. Marsh, Madelia, Watonwan County Secretary-Treasurer, Arthur Foster, Garvin, Murray County

The board of directors include these officers and also the following: Alex Best, Brown county; Wm. Golly, Cottonwood county; Stanley Hanks, Faribault county; A. C. Irvine, Jackson county; Floyd Peterson, Lincoln county; E. C. Hodges, Lyon county, M. E. Teeter, Martin county; Paul Cunningham, Pipestone county; Wm. Poulsen, Redwood county; and L. J. Moeller, Rock county.

The following tabulation shows by counties the numbers of members who completed records in 1942:

Brown	7	Lincoln,	7	Nobles	<b>2</b> 9
Cottonwood	10	Lyon	10	Pipestone	7
Faribault	17	Martin	13	Redwood	26
Jackson	14.	Murray	12	Rock	8
				Watonwan.	10
*	gad en er en a	er e			170

. . . .

In the tables on page 4 and succeeding pages are shown data for 165 farms. Five farms have been omitted from all of the averages in the tables because they differed widely in type from the others or were not sufficiently complete for a full analysis.

# TYPE OF FARMING\*

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

### TOPOGRAPHY, SOILS, AND WEATHER

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

No unusually high or low temperatures occurred in 1942. Weather conditions were favorable for early spring farm activities; however, cool wet weather in May retarded growth of vegetation, and the planting of corn and other late crops was seriously delayed. Favorable weather conditions in June permitted field work to progress rapidly. Small grain and grasses did well in June and July, but it was too cool for warm weather crops. Rust damage occurred with flat suffering the most. Heavy rains

<sup>\*</sup>For a more complete description of the area see Engene, S. A., and Pond, G. A., "Agricultural Production and Types of Farming in Minnesota," Minn. Bul. 347, May, 1940.

caused considerable damage and delayed having and harvesting of small grain. Heavy rains, snow, and a hard freeze on September 24 damaged late corn and soybeans. Fortunately, ideal October weather lessened the effect of the September freeze.

Table 1. Monthly and Annual Precipitation

	"	apre i · i		and Annual	Precipi	tation		
	Worth	nington	Fair	nont	New l	J <b>l</b> m .	Redwo	od Falls
,		Depar-	Precip-			Depar-	Precip-	Depar-
A Albert	itation	ture from	itation	ture from	itation	ture from	itation	ture from
		normal		normal		normal		normal
	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches
January	0.19	-0.44	0.05	-0.75	0.20	-0.93	0,00	-0.73
February	0.41	-0.36	0.22	-0.75	0.35	-0.71	0.30	-0.57
March	4.55	<b>4</b> 3.29	2.27	+0.86	4.67	<b>‡3.0</b> 6	2,83	<b>+1.58</b>
April	1.26	-0.82	1.44	-0.79	1.73	-0.46	1.62	-0.31
May	6.36	+2.42	3.83	-0.22	6.21	<b>+</b> 2.64	4.60	<b>↓</b> 1.74
June	5.57	<b>+1.28</b>	3.06	-1.28	2,98	-1.67	2.57	-1.92
July'	4.14	40.75	4.45	<b>+</b> 0.89	3.41	-0.27	1.84	-1.20
August	4.52	+0.76	4.70	<b>40.9</b> 6	1.40	-2.15	1.48	-1.50
September	4.66	<b>+1.1</b> 2	3.62	-0.01	6.66	+3.07	4.63	<b>+1.</b> 77
October	0.80	-0.89	1.00	-0.85	0.26	-1.90	0.39	-1.28
November	0.51	-0.66	0.39	-1.12	0.48	-0,83	0.33	-0.88
December	0.50	-0.11	0.95	<b>+0.0</b> 5	1.28	10.38	0.43	-0.65
1942 Total	33.47	<del>1</del> 6.34	25.98	-3.01	29,63	40.23	21.02	-3.95
1941 Total	28.22	<b>+1.</b> 09	32.92	<b>43.93</b>	34.94	<b>+</b> 5.54	26.07	+1.10
1940 Total	22.50 .	-4.63	28.72	-0.27	36,90	<b>17.50</b>	25.95	<b>+</b> 0.98
1939 Total	24.27	-2.86	21.92	-7.07	23.04	-6.36	18.52	<b>-6.45</b>
1938 Total	40.50	<b>+13.37</b>	39,99	+11.00	29,98	<b>40.</b> 58	26.84	<b>41.</b> 87
Normal	*****	£ 10	7.5				Drai, or	P 3
Annual Prec.	27.13	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	28.99		29.40	11 m - 1 m -	24.97	e e e e e e e e e e e e e e e e e e e

#### 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, Ross Huntsinger, 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 produce were charged.

At the end of the year, the books were taken to the central office at University Farm, where they were summarized. For the purpose of comparison, the earnings as shown in this report are computed as if each farm was 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.

Table 2. Summary of Farm Inventories (Beginning of Year). 1942

Items	Your farm	Average of 165 farms	33 most profitable farms	33 least profitable farms
Size of farm (acres)		284	424	233
Size of business (work units)*		624	890	436
Horses \$		\$ 335	\$ 412	\$ 306
Productive livestock (total)		6,277	11,216	3,952
Dairy and dual-purpose cows		660	619	560
Other dairy & dual-purpose cattle		367	321	278
		2,710	5,414	1,413
Hogs		1,534	2,377	1,077
Sheep (including feeders)		854	2,340	478
Poultry (including turkeys)		152	145	146
Crop, seed, and feed		4,244	6,818	2,593
Mach. & equipment (total)		3,134	4,841	2,369
Power mach. (f. share)		1,191	1,756	931
Crop & gen. mach. (f. share)		1,501	2,405	1,119
Livestock equip. & supplies		442	680	319
Buildings, fences, etc.		7,383	9,620	6,571
Land		15,304	23,280	11,699
Fotal farm capital \$		\$36,677	\$56,187	\$27,490
				•

<sup>\*</sup>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:

Item	Per	No. of work units	Item		Per	No. of work unit	s
do .						eranian kan kan kan dan kan da Baran dan kan	
Dairy and dual-	COW	13.5	Small grain	200	acre	.7	• .
purpose cows			Soybeans for	grain	11,	•9	
Other dairy & dual-)		4.0	Sugar beets		. 11 -	3.0	
purpose cattle	animal		Sweet corn		11	2.5	
Beef breeding herd	unit*	4.0	Corn, husked		tt	1.3	
Sheep - farm flock		1.6	Corn, hogged	<u>.</u>	tř	.8	
Hens	100 hens	26.0	Corn, shredd		11	2.5	
Feeder cattle	•	•35	Corn silage		11	1.9	
Feeder sheep	100 lbs.	•4	Corn fodder	1 1	11	1.3	
Hogs	produced	.25	Alfalfa hay		11	1.0	
Turkeys	r Taran Kari	.7	Soybean hay		. If .	1.4	
Canning peas	acre	2.0	Other hay cr		11	•6	
-	Salar (Marie )		2 · 1 · 1 · 1			The second of th	

<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.

	Table 3. S	ummary of	Farm Invent	ories (	End of Y	ear), 1942	
		**************************************	Your		rage	33 most	33 least
			farm		165	profitable	profitable
Items				far	ms	farms	farms
:*							
Horses			\$	. \$	338	\$ 445	\$ 282
	livestock (		4	7	,648	14,260	4,628
	dual-purpose			<del>TT</del> -57	670	666	548
Other da	iry & dual-p	urpose ca	ttle	<del></del>	399	276	341
	tle (includi	ng feeder	s)		2,872	5,900	1,476
Hogs	, i.e.	antali Alberta		<del></del>	2,477	4,212	1,548
	ncluding fee		a sa	f ,	1,003	2,988	445
Poultry	(including t	urkeys)			227	218	270
Crop, seeds	s, and feed		and the same of th	<del>-</del> 4	,781	8,404	2,468
Mach. & equ	uipment (tot	al)			,366	5,067	2,510
Power mad	chinery (far	m share)			1,227	1,735	954
	gen. machin		and the second second	******	1,636	2,624	1,220
	c equipment		S		503	708	<b>3</b> 36
	fences, etc		And the second s	7	,342.	9,683.	6,395
Land	A	-	processor specific and a contract constitution of the contract		,304	23,280	11,699
		*			-	1.7537	
Total farm	canital		<b></b>	\$38	,779	\$61,139	\$27,982
TO O COLL TO LINE	Coproca	750	Ψ	<b>\$</b> 00	, 113	11. WOI 9 103	φωτ, του
		1127					
15.7	War.	12.0					10.00
2.2		Table 4	. Summary o				
5.7.3		1.3		Your	Average		33 least
* * * * * * * * * * * * * * * * * * *	5.1	1.		farm	of 165	profitable	profitable
Items					farms	farms	farms
<b>37</b> 0.3	,				(m)	5.15	
No. of hors		Sit.			4.0	5.2	3.5
No. of col		125 6 🙀 i			.7	•9 `	•8
No. of dai	ry & dual-pu	rpose cow	s		8.6	8.3	7.3
Head of oth	ner dairy &	dual-purp	ose cattle $\_$	7	9,2	8.3	8.2
Head of cat	ttle kept in	beef bre	eding herd _		9.9	18.6	6 <b>.</b> 0
Pounds of 1	peef cattle	produ <b>c</b> ed	-		10,119	20,904	5 <b>,1</b> 63
Pounds of i	feeder sheep	produced	e e e e e e e e e e e e e e e e e e e		2,054	7,556	217
ing ing the second of the sec			a state paper control of the co		- 1001	* * ** *	
Litters of	p <b>igs</b>		******		20.1	28.9	13.2
Pounds of h	nogs produce	d.	April 1 to 1 t		34,522	56,790	19,823
	ep(2 lambs :	• 1 head)	(farm flock)	<del>n - 1 Clari andron i Brancollo</del> va <del>(Brancollo</del> va)	29.8	49.0	35.4
No. of hens	\$	1.84	445	······································	196	202	y 178
St.	À	udis . L	water to the control of	······································	<b>-</b>	i i na kata na kata Panjaran na kata ta	
Total no. o	of prod liv	estock an	imal units		66 <b>.9</b>	117.5	44.0
És .		4.50	Appendix Arms		-		1.0
% of total		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. have the				in the paper of the
	dual-purpo		est fertilities to the		17.5	9.8	19.1
Other dai	iry and dual	-purpose	cattle -		10.3	5.6.,	11.6
In beef b	reeding here	$\mathbf{d}^{-j+\frac{\pi}{2}}$	••		11.6	14.3	11.3
Feeder ca		<i>2</i> ,		<del></del>	19.3	25.5	20.0
	arm flock				5.5	4.8	8.3
Sheep - f					- 3.8	9.4	Alan a no re
Hogs	·	1 ph	· · · · · · · · · · · · · · · · · · ·		- 26 /		、 1970年 - <b>8</b> 1 <b>2</b> タスファー
Turkeys	****		12	······································	26.4	24.1	23.8
Hens		i s bi j	As a supplement		- 1.4 - 5	dues $f_{\mathbf{s}}^{\mathbf{t}}$ . If $\epsilon$	actardi (a
110119	<b>6</b>	· ·	The second of th		- 4.6 AT		, p 5.6
	. '		4 (4 (4 ) 20 )				

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Table 5. Summary of Farm Earnings (Cash Statement), 1942

Table 5. Summary of Farm Earnings (Cash	Statement	t), 1942	
Your	Average	33 most	33 least
farm	of 165	profitable	profitable
Items	farms	farms	farms
FARM EXPENSES			
Horses bought \$	\$ 49	. \$ 67	\$ 32
Dairy and dual-purpose cows bought	75	71	55
Other deim a deim a deim			35
Other dairy & dual-purpose cattle bought	7 66	31	the second secon
Beef cattle bought (including feeders)	1,718	3,535	750
Hogs bought	339	667	177
Sheep bought (including feeders)	866	3,524	128
Poultry bought (including turkeys)	138	291	91
Misc. crop expenses	. 377	600	303
Feed bought	,2,235	4,616	1.293
Power mach. (farm share) (new)	256	259	237
Power mach (form thema)	<b>533</b>	731	391
Custom work hired	199	176	162
	for an area and a	en a se de la compania	
Crop and general mach. (new)	387		262
Crop and general mach. (upkeep)	135	183	104
Livestock equipment (new)	134	<b>1</b> 65	59
Livestock equipment (upkeep)	5 <b>7</b>	1 90	40
Misc. livestock expense	148	231	105
Buildings and fencing (new)	327	513	221
Buildings and fencing (upkeep)	156	1189 <sup>(30)</sup>	123
Hired labor	622		430
Taxes	355	501	292
Ingumoneo	. 35	43	27
General farm	•		
	60	60	49
(1) Total farm purchases	\$9,267	\$17,206	\$5,366
(2) Decrease in farm capital			in the second se
(3) Board furnished hired labor	143	227	93
(4) Interest on farm capital	1,886	2,933 🖖 :	1,387
(5) Unpaid family labor	360	468	242
(6) Total farm expenses (Sum of (1) to (5)\$	\$11.656	\$20,834	\$7,088
The state of the s		v Poetse sta	i i <b>t</b> iri <b>y</b> inin i Santa i gala ili eta ele
FARM RECEIPTS	යට කැ. යට ජන එකක් උදානන්		and the second
Horses \$	\$ 47	<b>\$</b> 42	\$ 58
Dairy and dual-purpose cows	256	285	220
Dairy products	804	808	589
Other dairy and dual-purpose cattle	190	143	121
Beef cattle (including feeders)	3,860	7,901	1,800
Hogs	4,336	7,086	2,480
Sheep and wool (including feeders)	1,402		448
Poultry (including turkeys)	598		172
Eggs		1,608	
Corn	589	586	532
	625	1,137	486
Small grain	1,120	1,899	865
Other crops	<b>3</b> 66	561	162
Power machinery sold	71	. 77	71
Crop and gen. mach. sold	62	124	28
Misc;	166	357	63
Income from work off the farm	163	165	35
Agricultural Adjustment payments	503	696	394
(7) Total farm sales	\$15,158	\$27,469	\$8,524
(8) Increase in farm capital	2,102		
(9) Family living from farm.		4,952	492
/ - \ Tomitt's TIATHE TION ISLA	584	688	515
(10) Total farm receipts (7) + (8) + (9) \$	\$17,844	\$33,109	\$9,531
(6) Total farm expenses	•		•
	11,656	20,834	7,088
(11) Operator's labor earnings (10) - (6)	6 <b>,18</b> 8	12,275	2,443

to a second control of	The state of the s	Your	Average	33 most	33 least
		farm	of 165		profitable
tems		<del></del>	farms	farms .	farms
XPENSES AND NET DECREASES		5 .	SALP ALL SHOOT	en seath i	A . mu
Total power	\$		\$ 884	\$1.129	\$ 717
Horses		<del></del>	16	2 207	125
Tractor	i Litus 🗂	<del>huib sar</del> .	33	8 452	291
Truck	i saya la i 💳	The state that	11 , $9$	5 170	55
Auto (farm share)			15	9 176	148
Gas engine (farm share)	্ৰিক স্কৃতি ক		។ ខុសដែលវិទៀប		3
Elec. plant or current (farm	$share)$ $\overline{}$		her els. ${f 4}$		31
Hired power			Berenner 8		64
Crop and general machinery		3	347		282
Livestock equipment	***		120	205 📑	80
Buildings, fencing and tiling			.404	494	412
Misc. productive livestock expe	nse -		141	226	86
Labor			1,172	1,760	
Real estate taxes	***		287		246
Personal property tax	1900		68		46
Insurance			35		27
General farm			06	6 <b>0</b> F	49
Interest on farm capital			1,886	2,933	1,387
(1) Total expenses & net decrea	ses \$_	- 13	\$5,404	\$7,797	\$4,135
ETURNS AND NET INCREASES					
ETURNS AND NET INCREASES All productive livestock	\$	g	\$10,612	\$18,785	\$6 <b>,</b> 160
All productive livestock	, 2 4 ti 64		\$10,612	\$18,785 4 1.088	\$6,160 812
All productive livestock Dairy and dual-purpose cows			\$10,612 1,03	4 1,088	812
All productive livestock Dairy and dual-purpose cows Other dairy & dual-purpose ca			1,03	4 1,088 3 385	812
All productive livestock Dairy and dual-purpose cows			1,03 41 48	4 1,088 3 385 5 990	812 345
All productive livestock Dairy and dual-purpose cows Other dairy & dual-purpose ca Beef breeding herd			1,03 41 48 1,80	1,088 3 385 5 990 0 3,830	812 345 264 830
All productive livestock Dairy and dual-purpose cows Other dairy & dual-purpose ca Beef breeding herd Feeder cattle Hogs			1,03 41 48	4 1,088 3 385 5 990 0 3,830 5 8,325	812 345 264 830
All productive livestock Dairy and dual-purpose cows Other dairy & dual-purpose ca Beef breeding herd Feeder cattle			1,03 41 48 1,80 5,00	1,088 3 385 5 990 0 3,830 5 8,325 5 392	812 345 264 830 2,831 217
All productive livestock Dairy and dual-purpose cows Other dairy & dual-purpose ca Beef breeding herd Feeder cattle Hogs Sheep - farm flock Sheep - feeders			1,03 41 48 1,80 5,00 22 39	4 1,088 3 385 5 990 0 3,830 5 8,325 5 392 9 1,414	812 345 264 830 2,831 217 69
All productive livestock Dairy and dual-purpose cows Other dairy & dual-purpose ca Beef breeding herd Feeder cattle Hogs Sheep - farm flock Sheep - feeders Turkeys Chickens			1,03 41 48 1,80 5,00 22 39	4 1,088 3 385 5 990 0 3,830 5 8,325 5 392 9 1,414	812 345 264 830 2,831 217 69
All productive livestock Dairy and dual-purpose cows Other dairy & dual-purpose ca Beef breeding herd Feeder cattle Hogs Sheep - farm flock Sheep - feeders Turkeys Chickens			1,03 41 48 1,80 5,00 22 39 42	4 1,088 3 385 5 990 0 3,830 5 8,325 5 392 9 1,414 7 1,554	812 345 264 830 2,831 217 69
All productive livestock Dairy and dual-purpose cows Other dairy & dual-purpose ca Beef breeding herd Feeder.cattle Hogs Sheep - farm flock Sheep - feeders Turkeys Chickens Crops, seed and feed			1,03 41 48 1,80 5,00 22 39 42 136	4 1,088 3 385 5 990 0 3,830 5 8,325 5 392 9 1,414	812 345 264 830 2,831 217 69  792
All productive livestock Dairy and dual-purpose cows Other dairy & dual-purpose ca Beef breeding herd Feeder cattle Hogs Sheep - farm flock Sheep - feeders Turkeys Chickens Crops, seed and feed Income from work off the farm	ttle		1,03 41 48 1,80 5,00 22 39 42	4 1,088 3 385 990 0 3,830 5 8,325 5 392 9 1,414 7 1,554 4 807 138 165	812 345 264 830 2,831 217 69 - 792 -140 35
All productive livestock Dairy and dual-purpose cows Other dairy & dual-purpose ca Beef breeding herd Feeder.cattle Hogs Sheep - farm flock Sheep - feeders Turkeys Chickens Crops, seed and feed	ttle		1,03 41 48 1,80 5,00 22 39 42 42 136 163	4 1,088 3 385 5 990 0 3,830 5 8,325 5 392 1,414 7 1,554 4 807 138 165 696	812 345 264 830 2,831 217 69  792 -140 35 394
All productive livestock  Dairy and dual-purpose cows Other dairy & dual-purpose ca Beef breeding herd Feeder cattle Hogs Sheep - farm flock Sheep - feeders Turkeys Chickens Crops, seed and feed Income from work off the farm Agricultural Conservation payme Miscellaneous  (2) Total returns & net increas	ttle		1,03 41 48 1,80 5,00 22 39 42 82 136 163 503 178	4 1,088 3 385 5 990 0 3,830 5 8,325 5 392 9 1,414 1,554 4 807 138 165 696 288	812 345 264 830 2,831 217 69  792 -140 35 394 129 6.578
All productive livestock  Dairy and dual-purpose cows Other dairy & dual-purpose ca Beef breeding herd Feeder cattle Hogs Sheep - farm flock Sheep - feeders Turkeys Chickens Crops, seed and feed Income from work off the farm Agricultural Conservation payme Miscellaneous  (2) Total returns & net increas	ttle		1,03 41 48 1,80 5,00 22 39 42 136 163 503 178	4 1,088 385 990 0 3,830 8,325 5 392 1,414 7 1,554 4 807 138 165 696 288	812 345 264 830 2,831 217 69  792 -140 35 394 129 6,578
All productive livestock Dairy and dual-purpose cows Other dairy & dual-purpose ca Beef breeding herd Feeder cattle Hogs Sheep - farm flock Sheep - feeders Turkeys Chickens Crops, seed and feed Income from work off the farm Agricultural Conservation payme Miscellaneous	ttle		1,03 41 48 1,80 5,00 22 39 42 136 163 503 178	4 1,088 385 990 0 3,830 8,325 5 392 1,414 7 1,554 4 807 138 165 696 288	812 345 264 830 2,831 217 69 

<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 Table 5.

### ANALYSIS OF THE REASONS FOR DIFFERENCES IN OPERATOR'S EARNINGS

The operator's labor earnings varied widely among the farmers included in this study. The average labor earnings of those farmers ranking in the upper 20 per cent in the range according to earnings was \$12,275 and of those in the lower 20 per cent was \$2,443. This is a range of \$9,832 between the average earnings of these two groups. Some of the causes for these differences in earnings may be beyond the control of the farmer. However, all of these farmers could make some changes in their farming operations which would increase earnings. A farmer can secure some ideas as to changes that could profitably be made on his farm by studying the facts about his business as presented in this report and comparing his accomplishments with other farmers following the same general type of farming. The more important management factors affecting earnings and their relationships with earnings are presented in the following tables.

Table 7. Relation of Crop Yields to Farm Earnings

			to the company of the company	
	Per cent crop were of the av for all 165 fa Group	rerage	No. of farms	Average operator's labor earnings
: -	Below 86 38 86-113	74 100	<b>39</b> 86	nasaannaa (
į.	114 and above	125	<b>40</b> %	20.016 947 - 20 00 0

50.4766

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 8. Relation of Choice of Crops to Farm Earnings

Per cent of t in high retur	and the second s	and	No. of	<u> </u>
Group	Average	the consistence of the contract of the contract of	farms	labor earnings
Below 35.0	31.1		43	\$5,258
35.0-42.0	38.4	man a company of	72	5,644
42.0 & above	46.2		50	

\*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 tiliable land in high return crops.

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

Table 9. Relation of Returns from Productive Livestock to Farm Earnings

Index of return fed to producti			No. of		ge operator's	
Group		Average farms**		labor earnings		
			-		i.	
Below 84		75	40	i, which	\$3,840	
84-117	, .	100	109	. •	6,464	
118 and above		,128	26		7,741	

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

and the property of the second

The majority of these farms are livestock farms. A large proportion of the crops raised are fed on the farm and some additional feed is purchased. Feed is the major item of cost in livestock production and livestock constitutes an important 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 10. Relation of Amount of Productive Livestock to

	TOTAL TIGHTITIE	50		
Productive livestock units per 100 acres*				
Average	rarms	rabor	earnin	gs
12.3	34	;	\$5,130	, .
22.7	, 90 . <sub>1</sub> .	y +1 y	5,757	
39.4	41	e e e e e e e e e e e e e e e e e e e	8,012	
	Average 12.3 22.7	estock Acres* No. of Average farms	Average No. of Average farms labor  12.3 34 22.7 90	No. of Average operate farms labor earnin  12.3 34 \$5,130 22.7 90 5,757

<sup>\*</sup>Acres in timber not pastured, roads, waste 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 ands to size of business and the opportunity to increase the farm earnings. Investock 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 11. Relation of Size of Business (Work Units) to

No. of work un		Earnings of Average opera	toris
Group	Average far	rms labor earni	ngsaraa . Waaraa aa a
	1 Careffee		
Group	343	31 \$3,429	그냥 하는 것같은 생님 회사에서 생각한
400699	549	5,355	
700 and above	964 4	45 9.736	

<sup>\*\*</sup>One farmer did not raise livestock.

The size of the farming operations is one of the important factors affecting the earnings of farmers. On the average, the farmers with a large business had larger earnings than the farmers with a small business. The size of the farm business is here measured in terms of the number of work units. 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 farmers who have large businesses usually have more flexibility of their organization than does the man with a small business, and can utilize more efficiently and to better advantage available labor, power, machinery and buildings. The size of the farm business may be increased by farming more land, by keeping more livestock, or by keeping livestock or growing crops of a more intensive type.

Table 12. Relation of Amount of Work Accomplished per Worker to

			taun mannings	and the second of the second of	James Branch Brake
	Work units per	worker	No. of	Average	operator's
1 5 A.X	Group	Average	farms	labor	earnings
n karan Kabupatèn	Relaw 275	i nos	91/11 (18.6) 1 <b>37</b> (11.1) 11		¢/ 1.75 ፡፡
			94		
	·		34		, w .
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Community of the commun

Farmers' earnings are generally higher on those farms on which a large amount of work is accomplished per worker. 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 13. Relation of Power, Machinery, Equipment and Building
Expense to Farm Earnings\*

	mxben	se co tarm r	paritrings.
Expense per wor	k unit	No. of	Average operator's
Group	Average	farms	labor earnings
\$3.50 and above	\$4.28	33	\$4 <b>.</b> 028
\$2.25-\$3.49	2.85	95	. homioni (1988)
Below \$2.25	1.80	<b>37</b>	7778 praides est 6.829

<sup>\*</sup>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.

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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 14.

Table 14. Relation of Operator's Labor Earnings to the Number

		of Factor	s in which the Farmer Is Above Average	
No. of factors in which farm excels	No. of farms	Your farm	The length of the shaded lines are in proportion to the average operator's labor earnings	Average operator's labor earnings
None One Two Three Four Five Six Seven	5 14 31 40 36 19 18 2		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	4,771 4,657 6,244 8,760 11,640 12,441

The array in Table 14 indicates that it will be worth-while for each cooperator to study carefully his ranking on pages 12 and 13, and learn his standing in respect to each of the above factors and the elements of strength and weakness in his farm business.

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Fig. 16 to be designed by the company of the compan

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Table 15. Measures of Farm Organization and Manager	ment Effic	iency, 19	42
Your Measures used in chart farm on page 13	Average of 165 farms	33 most profit- able farms	33 least profit- able farms
Operator's labor earnings	\$6,188	\$12,275	\$2,443
(1) Crop yields*	100	109	90
(2) % of tillable land in high return crops**	38.9	40.6	37.5
(3) Ret. for \$100 feed to productive livestock***	100	112	90
(4) Productive livestock units per 100 acres****	24.7	29.5	21.1
(5) Size of business - work units	. 624	897	430
(6) Work units per worker	281	321	241
(7) Pow., mach., equip., & bldg.exp.per work unit \$	\$2.90	\$2.54	\$3.50
Measures and items related to some of the above measures:  (3) Index of return for \$100 feed from -  Dairy cattle  Dual-purpose cattle  Beef cattle - breeding herd	100 100 100	109 116 105	98 89
Beef cattle - feeders  Hogs Sheep - farm flock	100 100 100	111 109 124	81 92 96
Sheep - feeders Turkeys Chickens	100 100 100	123 104 102	96 - 99
(5) Work units on crops Work units on productive livestock Other work units	219 364 41	318 538 41	16 <b>4</b> 25 <b>7</b> 9
(6) Total number of workers  Number of family workers  Number of hired workers	2.3 1.5	2.9 1.7 1.2	1.9
(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	\$1.48 .57 .19 .66	\$1.29 .49 .22 .54	\$1.69 .66 .20 .95

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

<sup>\*\*</sup>Crops are marked in Table 16 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 165 farms included in this summary are located between the dotted lines across the center of this page.

*	Oper.	•		Return	Pr. 1.		Work	Pow., mach.,
	labor	•	High	from pro-	units	• 5 •	units	eq., & bldg.
	earn-		return	ductive	per	Work	per	exp. per
h.	ings	yields	crops	livestock	100 A.		worker	work unit
			- In 1		1		<b>-</b>	
.: ф1	.2600	1.40	55.0	140	15.0	1025	440	\$1.30
΄ φ.	2000	1-40	55.0	140	45,0	CAUL	440	<b>9</b> T • 90 =
	, l				arth:			= =
. 1	1800	135	53.0	135	42.5	975	420	1.50
•							±	3 min
. 1	1000	130	51.0	130	40.0	925	400	1.70
•	1110 th	-  -				=,		
r								
1	-0200 <u>-</u> -	125	49.0	125	37.5	875	380	1.90
					Arr.			<u> </u>
	9400	120	47.0	120	35.0	825	360	2.10
	_		-	-		- 1.3	97. si <del>-</del>	<u>-</u>
	8600	115	45.0	115	32.5	775	340	2.30
		,						
		4						
*	7800	110	43.0	110	30.0	725	320	2.50
	=		, <del> </del> =	=				
. :	7000	105	41.0	105	27.5	675	300	2.70
	-			-			-	
	6200	100	39.0	100		C ED III WARREN	000	2.90
	0200		39.0	100	25.0	625	280	2.90
فاد و و در در در از از در در در در	F 4 6 6		77.0					
	5400	95	37.0	95	22,5	575	260	3,10
er west November	4000		75 0				0.46	-
	4600	90 =	35.0	90	20.0	525	240	3.30
i de la companya de l	-					-	grant and any	
	3800	85	33.0	85	17.5	475	220	3.50
was a second								F
	3000	80 -	31.0	80	15.0	425	200	3.70
	E	=			<u> </u>	-	_	
	2200	75 =	29.0	75	10	775	100	3.90
	E E		20.0	10	12.5	375	180	0.30-
	1400 E	1 2 5						
	1400	70 E	27.0	. 70	10.0	325	160	4.10
					***************************************		-	
12. <b>€</b> €2. 1:	600	65	25.0	65	7.5	275	140	4.30 11 03/0
e Bigg	=				<b> -</b>			
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å.S.								
	. •	5 (3.40) - The	90	- Transfer	-	, p		

Table 16. Distribut	ion of Acre	es in Fa	rm, 1942	¥1	
Crop: (A) (B) (C) and (D) refer	No.	Your	Average	33 most	33 least
to ranking used in calculating	growing	farm	of 165	profit-	profit-
% of tillable land in High	this	*	farms	able	able
Return Crops (see page 12)	crop			farms	farms
			<del></del>	,	
Canning peas (A)	9		1.2	1.8	.2
Flax. (B)	146		37.1	60.9	29.4
Barley (C)	88		15.4	27.7	13.6
Barley and oats	14		4.5	1.1	1.6
Wheat (D)	30		1.9	1.6	2.9
and the second of the second o		**************************************	30.5	35.1	25 <b>.</b> 1
· · · · · · · · · · · · · · · · · · ·	140			2.7	2.3
Oats and wheat (D)	10		1.6		1.5
Rye (D)	10		.8	.5	
Soybeans for grain (D)	88		11.0	16.4	5.6
Miscellaneous (D)	6		• 3	.1	• 3
The state of the s			i		
Total Small Grain and Peas	165		104.3	147.9	82.5
Sugar beets, hybrid seed corn,					
potatoes and truck crops (A)	66		1.7	3.1	1.0
Sweet corn (B)	10		1.1	1.0	•6
Corn grain (B)	164		69.2	100.1	46.0
Corn silage (C)	.80		5.7	9.9	4.1
Corn fodder (D)	44		2.0	1.7	5.1
그 그렇게 하는 그렇게 아는 물이 되었다.			1 2		
Total cultivated crops	165		79.7	115.8	56.8
Alfalfa hay (A)	1.58		21.9	31.3	17.1
Sweet clover hay (B)	7	<u> </u>	• 5	1.9	•••
Soybean hay (C)	15		•6	1.1	•9
Mixed legumes & non-legumes (C)	58	ļ	4.6	5.2	2.5
Legumes for seed (C)	6 7 7 7		.4		.1
Timothy and/or brome (D)	20		.8	1.1	1.2
Timothy seed (D)	2		.1	. 3	.1
Other annual hay (D)	15		. 9	1.8	1.4
					Visit
Total tillable land in hay	164		29.8	42.7	23.3
Alfalfa pasture (A)	63		2.2	2.6	1.0
Sweet clover pasture (B)			4.8	9.0	6.3
Mixture incl. alf., sweet clover, brome(B)	46		6.0	6.5	4.0
Other legumes and mixtures (C)	45		3.8	4.4	2.4
Sudan grass and/or rape (0)	-3 63	*	2.8	4.1	1.4
Other tillable pasture (D)	79		7.5	10.6	6.8
			<b>( )</b>	10.0	
Total tillable land in pasture	162		27.1	37.2	21.9
		<del></del>		5.1	<del></del>
Tillable land not cropped (D)	63		3.5		4.0
Total tillable land			244.4	348.7	188.5
Phalaris hay (non-tillable)	7		.2	• 4	• 3
Wild hay (non-tillable)	56		4.5	7.2	4.9
Non-tillable pasture	112		22.1	41.2	21.9
Timber (not pastured)	28		1.2	1.0	1.8
Roads and waste			9.5	13.4	6.9
Farmstead			9.1	11.7	8.3
CHILDREN CONTROL OF THE CONTROL OF T	dişe quanantarinen ad di malmayını biral ması dan eneşidirili deşiyle aşi ar				
Total acres in farm		tipopulation and a	291.0	423.6	232.6
% land tillable			85.3	85.2	82.3
% tillable land in high return crops	-pi-se-i		38.9	40.6	37.5

	farm o	verage f 165 arms	33 most profitable farms	33 least profitable farms
Canning peas, value above seed cost \$ Flax, bu. Barley, bu. Barley and oats, bu.		34.82 11.5 24.0 39.1	\$48.23 12.1 25.6	9,8 22 <b>,</b> 9
Wheat, bu. Oats, bu. Oats and wheat, bu. Rye, bu. Soybeans for grain, bu.		15.8 44.8 47.5 15.9 12.2	17.5 44.9 46.9 21.0 15.4	13.9 43.4 49.9 12.7 10.3
Sweet corn, tons Corn, grain, bu. Corn silage, tons Corn fodder, tons		3.8 57.4 10.3 2.7	4.7 62.5 10.6 3.3	3.0 49.8 9.5 2.4
Alfalfa hay, tons Sweet clover hay, tons Soybean hay, tons Mixed legume & non-legume hay, tons Legumes for seed, 1bs. Timothy and/or brome hay, tons		2.5 .9 1.3 1.9 52.	2.6 1.0 .9 1.9	2.7 1.2 1.8 1.8 4.7
Timothy seed, pounds Other annual hay, tons Phalaris hay on non-tillable land, tons Wild hay, tons		1.0 1.4 .ô	•8 •8	9 1.8

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0.33

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Table 18. Factors of Cost and Returns from Dairy Cows, 1942 12 farms 12 farms Your Average lowest in of 61 highest in farm butterfat farms . butterfat per cow per.cow Items 188 250 318 Pounds of butterfat per cow Feeds per cow, lbs.: 1,501 Corn 1.621 2,003 927 959 800 Small grain 43 51 0 Com. feeds - under 25% protein 107 190 Com. feeds - over 25% protein 4,460 5,166 Legume hay 4,175 . 170 219 52 . Other hay 756 Fodder and stover 399 297 . 3,203 2,335 Total concentrates 2,698 Total dry roughages 4,793 4,809 5,107 Silage 4,458 Total digestible nutrients\* 5.788 5,292 5.274 21.9 T.D.N. per lb. B.F. 18.3 28.9 14.6 % T.D.N. that is protein 14.3 15.2 Feed cost per cow: Concentrates \$33.91 \$41.32 \$28.22 24.95 24,74 Roughages ' 23.53 Pasture 5,55 5.47 5,51 TOTAL FEED COSTS \$71.74 \$58.47 \$62.99 Value of produce per cow: B.F. sales \$101.14 \$136.07 \$64.76 Dairy produce used in house 6.33 8,60 9.48 Milk to livestock 16.00 15.85 18.11 Net increases in value of cows 7.53 10.53 13.34 TOTAL VALUE PRODUCED \$133.12 \$171.04 \$103.58 RETURNS ABOVE FEED COST PER COW \$70.13 \$99.30 \$45.11 RETURNS FOR \$100 OF FEED \$216 \$243 \$186 Price received per 1b. B.F. sold 41.8 42.9 43.1 As manufacturing cream (cents) As mkt. mk. & cm. & mk. for cheese(cts.) 63.6 63.7 Feed cost per 1b. B.F. (cents) 25.8 22.6 31.9 % fall freshening 49.2 60.8 56.2 Number of dairy cows\*\* 13.4 16.1 9.6

<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.

Table 19.			Your	Average	12 farms	ll farms
	The state of the s		Farm	of 59	highest in	lowest in
		***	a corm	farms*	butterfat	butterfat
tems				T Or mo		per cow*
, voins	A Commence of the commence of	uniqual ne instruja waranya sire			per cow	ber com.
eeds per head, lbs	. :					
Concentrates				731	1,092	450
Hay and fodder		-		1,384	1,671	1,277
			·	· •		
Silage				1,424	1,505	822
Whole milk		_		443	486	427
Skim milk				1,355	1,163	2,082
eed cost per head:						
Concentrates	• .	¢		\$8.99	\$13.33	\$5.52
		Ψ_			,	•
Roughages	¢ .			6.82	8.16	5 <b>.57</b>
Milk				10.30	9.63	12.14
Pasture				1.83	1.78	1.94
TOTAL FEED CO	STS	\$	<del></del>	\$27.94	\$32.90	\$25,17
		· •	·····	φ	φοιο <b>, ο</b> ο	φ~υ•±.
Net inc. in value of	f other dairy	cattle \$		\$48.24	\$58.51	\$45,69
RETURNS ABOVE FEED	COST PER HEAD	\$		\$20.30	\$25.61	\$20.52
RETURNS FOR \$100 OF	malmb	терин		4= cm	4.0.	
THIOTING BOY OTOO OT	ម្មាលប្រ	\$_	-	\$187	\$184	\$212
Number of head of o	ther doing out	.10		13.9	14.3	9.9
	orier gerri's ceres	TE		10.0	±"± ■ €)	
	oner dearly carry	,T6		To. 3	*	
	oner daily carr			10.9	7.4. O	
					- 18 s	
	20. Feed Cos			rom All Da	iry Cattle	
			Your	rom All Da Average	iry Cattle	12 farms
				rom All Da	iry Cattle	
			Your	rom All Da Average	iry Cattle 12 farms highest in	12 farms lowest in
			Your	rom All Da Average of 61	iry Cattle	12 farms
Table Items	20. Feed Cos		Your	rom All Da Average of 61	iry Cattle 12 farms highest in butterfat	12 farms lowest in butterfat
Table Items Feeds per animal un	20. Feed Cos		Your	rom All Da Average of 61	iry Cattle 12 farms highest in butterfat	12 farms lowest in butterfat
Table Items	20. Feed Cos		Your	rom All Da Average of 61 farms	iry Cattle 12 farms highest in butterfat per cow	12 farms lowest in butterfat per cow
Table Items Feeds per animal un Concentrates	20. Feed Cos		Your	rom All Da Average of 61 farms	iry Cattle 12 farms highest in butterfat per cow	12 farms lowest in butterfat per cow 1,908
Table Items Feeds per animal un Concentrates Hay and fodder	20. Feed Cos		Your	rom All Da. Average of 61 farms  2,272 4,042	iry Cattle 12 farms highest in butterfat per cow 2,829 4,251	12 farms lowest in butterfat per cow  1,908 4,707
Table Items Feeds per animal un Concentrates	20. Feed Cos		Your	rom All Da Average of 61 farms	iry Cattle 12 farms highest in butterfat per cow	12 farms lowest in butterfat per cow 1,908
Table Items Feeds per animal un Concentrates Hay and fodder	20. Feed Cos		Your	rom All Da. Average of 61 farms  2,272 4,042	iry Cattle 12 farms highest in butterfat per cow 2,829 4,251	12 farms lowest in butterfat per cow  1,908 4,707
Table Items Feeds per animal un Concentrates Hay and fodder Silage Feed cost per anima	20. Feed Cos	ts and R	Your	rom All Da Average of 61 farms 2,272 4,042 3,974	iry Cattle 12 farms highest in butterfat per cow  2,829 4,251 5,107	12 farms lowest in butterfat per cow  1,908 4,707 1,963
Table Items Feeds per animal un Concentrates Hay and fodder Silage Feed cost per anima Concentrates	20. Feed Cos		Your	rom All Da Average of 61 farms 2,272 4,042 3,974 \$28.38	iry Cattle 12 farms highest in butterfat per cow  2,829 4,251 5,107	12 farms lowest in butterfat per cow  1,908 4,707 1,963
Table  Items  Feeds per animal un Concentrates Hay and fodder Silage  Feed cost per anima Concentrates Roughages	20. Feed Cos	ts and R	Your	rom All Da. Average of 61 farms  2,272 4,042 3,974  \$28.38 20.01	iry Cattle 12 farms highest in butterfat per cow  2,829 4,251 5,107  \$36.06 21.77	12 farms lowest in butterfat per cow  1,908 4,707 1,963  \$23.17 20.17
Table  Items  Feeds per animal un Concentrates Hay and fodder Silage  Feed cost per anima Concentrates Roughages Pasture	20. Feed Cos  it, lbs.:	ts and R	Your	rom All Da.  Average of 61 farms  2,272 4,042 3,974  \$28.38 20.01 4.88	iry Cattle 12 farms highest in butterfat per cow  2,829 4,251 5,107  \$36.06 21.77 4.81	12 farms lowest in butterfat per cow  1,908 4,707 1,963  \$23.17 20.17 4.98
Table  Items  Feeds per animal un Concentrates Hay and fodder Silage  Feed cost per anima Concentrates Roughages	20. Feed Cos  it, lbs.:	ts and R	Your	rom All Da. Average of 61 farms  2,272 4,042 3,974  \$28.38 20.01	iry Cattle 12 farms highest in butterfat per cow  2,829 4,251 5,107  \$36.06 21.77	12 farms lowest in butterfat per cow  1,908 4,707 1,963  \$23.17 20.17
Table  Items  Feeds per animal un Concentrates Hay and fodder Silage  Feed cost per anima Concentrates Roughages Pasture TOTAL FEED CO	20. Feed Cosit, lbs.:	ts and R	Your	rom All Da.  Average of 61 farms  2,272 4,042 3,974  \$28.38 20.01 4.88	iry Cattle 12 farms highest in butterfat per cow  2,829 4,251 5,107  \$36.06 21.77 4.81	12 farms lowest in butterfat per cow  1,908 4,707 1,963  \$23.17 20.17 4.98
Table  Items  Feeds per animal un Concentrates Hay and fodder Silage  Feed cost per anima Concentrates Roughages Pasture TOTAL FEED CO	20. Feed Cosit, lbs.:	ts and R	Your	rom All Da Average of 61 farms 2,272 4,042 3,974 \$28.38 20.01 4.88 \$53.27	iry Cattle 12 farms highest in butterfat per cow  2,829 4,251 5,107  \$36.06 21.77 4.81 \$62.64	12 farms lowest in butterfat per cow  1,908 4,707 1,963  \$23.17 20.17 4.98 \$48.32
Table  Items  Feeds per animal un Concentrates Hay and fodder Silage  Feed cost per anima Concentrates Roughages Pasture TOTAL FEED CO	20. Feed Cos  it, lbs.:  l unit:  STS  r animal unit:	ts and R	Your	rom All Da.  Average of 61 farms  2,272 4,042 3,974  \$28.38 20.01 4.88 \$53.27	iry Cattle 12 farms highest in butterfat per cow  2,829 4,251 5,107  \$36.06 21.77 4.81 \$62.64	12 farms lowest in butterfat per cow  1,908 4,707 1,963  \$23.17 20.17 4.98 \$48.32
Table  Items  Feeds per animal un Concentrates Hay and fodder Silage  Feed cost per anima Concentrates Roughages Pasture TOTAL FEED CO	20. Feed Cos  it, lbs.:  l unit:  STS  r animal unit:  value of dairy	ts and R	Your	rom All Da.  Average of 61 farms  2,272 4,042 3,974  \$28.38 20.01 4.88 \$53.27  \$78.37 33.68	iry Cattle 12 farms highest in butterfat per cow  2,829 4,251 5,107  \$36.06 21.77 4.81 \$62.64	12 farms lowest in butterfat per cow  1,908 4,707 1,963  \$23.17 20.17 4.98 \$48.32
Table  Items  Feeds per animal un Concentrates Hay and fodder Silage  Feed cost per anima Concentrates Roughages Pasture TOTAL FEED CO	20. Feed Cos  it, lbs.:  l unit:  STS  r animal unit:  value of dairy	ts and R	Your	rom All Da.  Average of 61 farms  2,272 4,042 3,974  \$28.38 20.01 4.88 \$53.27	iry Cattle 12 farms highest in butterfat per cow  2,829 4,251 5,107  \$36.06 21.77 4.81 \$62.64	12 farms lowest in butterfat per cow  1,908 4,707 1,963  \$23.17 20.17 4.98 \$48.32
Table  Items  Feeds per animal un Concentrates Hay and fodder Silage  Feed cost per anima Concentrates Roughages Pasture TOTAL FEED CO	20. Feed Cos  it, lbs.:  l unit:  STS  r animal unit:  value of dairy  RODUCED	ts and R	Your	rom All Da: Average of 61 farms  2,272 4,042 3,974  \$28.38 20.01 4.88 \$53.27  \$78.37 33.68 \$112.05	iry Cattle 12 farms highest in butterfat per cow  2,829 4,251 5,107  \$36.06 21.77 4.81 \$62.64  \$102.98 42.32 \$145.30	12 farms lowest in butterfat per cow  1,908 4,707 1,963  \$23.17 20.17 4.98 \$48.32  \$54.54 36.50 \$91.04
Table  Items  Feeds per animal un Concentrates Hay and fodder Silage  Feed cost per anima Concentrates Roughages Pasture TOTAL FEED CO  Value of produce per Dairy products Net increase in TOTAL VALUE PRETURNS ABOVE FE	20. Feed Cos  it, lbs.:  l unit:  STS  r animal unit:  value of dairy RODUCED  ED PER ANIMAL I	ts and R	Your	rom All Da.  Average of 61 farms  2,272 4,042 3,974  \$28.38 20.01 4.88 \$53.27  \$78.37 33.68	iry Cattle 12 farms highest in butterfat per cow  2,829 4,251 5,107  \$36.06 21.77 4.81 \$62.64	12 farms lowest in butterfat per cow  1,908 4,707 1,963  \$23.17 20.17 4.98 \$48.32
Table  Items  Feeds per animal un Concentrates Hay and fodder Silage  Feed cost per anima Concentrates Roughages Pasture TOTAL FEED CO	20. Feed Cos  it, lbs.:  l unit:  STS  r animal unit:  value of dairy RODUCED  ED PER ANIMAL I	ts and R	Your	rom All Da: Average of 61 farms  2,272 4,042 3,974  \$28.38 20.01 4.88 \$53.27  \$78.37 33.68 \$112.05	iry Cattle 12 farms highest in butterfat per cow  2,829 4,251 5,107  \$36.06 21.77 4.81 \$62.64  \$102.98 42.32 \$145.30	12 farms lowest in butterfat per cow  1,908 4,707 1,963  \$23.17 20.17 4.98 \$48.32  \$54.54 36.50 \$91.04

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

Table 21. Factors of Cost and Returns Your farm		12 farms highest in butterfat per cow	12 farms lowest in butterfat per cow
Pounds of butterfat per cow	190	266	120
Feeds per cow, lbs.:		,	mmer.
Corn	1,109	1,720	773
Small grain	731	868	55°
Com. feeds - under 25% protein	12 47	40 83	15 cs
Com. feeds - over 25% protein	4 (	00	<b>40</b> 0:
Legume hay	3,330	3,511	2,629
Other hay	452	252	702
Fodder and stover	245	66	405
	7 000	2,711	1,355
Total concentrates	1,899		3,736
Total dry roughages	4,027	3   829	3,234
Silage	3,701	2,557	<i>0.</i> <b>€</b> 0. €
Total digestible nutrients*	4,155	4,507	3,452
T.D.N. peralb. B.F.	23.2	17.0	30.2
% T.D.N. that is protein	14.2	14.5	13.6
Feed cost per cow: Concentrates \$	\$23.41 19.09 6.05 \$48.55	\$34.08 17.31 6.06 \$57.45	\$16.46 16.46 5.72 \$38.64
Value of produce per cow:	<u></u> ተረጋ ላይ	<u></u>	\$40.97
B.F. sales	\$62.47	\$90.09 14.99	6.89
Dairy produce used in house	12.68 15.32	18.44	10.84
Milk to livestock Net increases in value of cows	12,36	14.07	18.23
TOTAL VALUE PRODCUED \$	\$102.83	\$137.59	\$76.93
RETURNS ABOVE FEED COST PER COW \$	\$54.28	\$80.14	\$38.29
RETURNS FOR \$100 OF FEED \$	\$220	\$243	\$203
want to the second seco			•
Price received per 1b. B.F. sold As manufacturing cream (cents)	42.0	41.1	41.9
As market milk or milk for cheese(cts.)		<del>-</del>	
Feed cost per 1b. B.F. (cents)	26.7	21.7	33.2
% fall freshening	37.9		26.2
Number of dual-purpose cows	9.5	7.0	11.1

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1910

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

Table 22. Feed Costs and Returns	from Other	Duar-Lurbe	JSG Carrate	エンエル
	Your	Average	9 farms	9 farms
of the contraction of the grown of	farm	of 45	highest i	n lowest in
		farms*	returns	returns
Items		and the second second second	· ·	d above feed
			•	
Feeds per head, lbs.:		\$ . AB	$\mathcal{E}_{k-1}$	
Concentrates		687	457	953
Hay and fodder		1,184	1,077	1,190
Silage		981	1,307	977
Whole milk		299	182	260-
Skim milk		1,218	807	921
	Marie Constitution of the second of the seco			1, 1, 1, 1, 1, 5, 5,
Feed cost per head:			* * *	Addition of the
Concentrates	\$	\$8.30	\$5.60	\$11.30
Roughages	Ψ	5.38	5.66	5.20
Milk	***************************************	8.26	5.27	6.89
Pasture		2.68	2.15	2.85
TOTAL FEED COSTS	¢	\$24.62	\$18.68	\$26.24
. TOTHE TEMP OODED	Ψ	φω⊶•υ≈	- φ10.00 - β - β - (Oλβ.e.	φωυ∙ω≖
Net increase in value	.· de	\$47.54	\$65.92	\$25.19
het increase in value	Ф	\$47.04	ಹಾರ≎.೨೩	φωυ. 19 - 10 000 00
RETURNS ABOVE FEED COST PER HEAD	. ф	400 OD	\$47.24	\$-1.05
THAIL THAIL TOOO CHEET WAS CALLED	Ψ	\$22.92	Φ41.€4	\$-T•O9
RETURNS FOR \$100 OF FEED	ď	ത്രാ ര	the AME TO THE	\$96
THE CHIEF TOR \$100 OF THE .	φ	\$218	\$401	
No of head of other dual-runness cotta	· * #* *	INTER E	3	
No. of head of other dual-purpose cattle	Θ	15.2	12.6	20.2
No. of head of other dual-purpose cattle	e			20.2
No. of head of other dual-purpose cattlement Table 23: Feed Costs and Re	e turns from	15.2 All Dual-Pu	12.6 irpose Cattl	20.2 
	turns from Your	15.2 All Dual-Pu	12.6 urpose Cattl 12 farms	20.2 e 12 farms
	e turns from	15.2 All Dual-Pu	12.6 urpose Cattl 12 farms	20.2 e 12 farms
	turns from Your farm	All Dual-Pu Average of 60 farms	12.6 urpose Cattl 12 farms	e 12 farms n lowest in returns
	turns from Your farm	All Dual-Pu Average of 60 farms	12.6 urpose Cattl 12 farms highest i	e 12 farms n lowest in returns
Table 23: Feed Costs and Re	turns from Your farm	All Dual-Pu Average of 60 farms	12.6 urpose Cattl 12 farms highest i returns	e 12 farms n lowest in returns
Table 23: Feed Costs and Re  Items  Feeds per animal unit, lbs.:	turns from Your farm	All Dual-Pu Average of 60 farms	12.6  rpose Cattl 12 farms highest i returns above fee	e 12 farms n lowest in returns
Table 23. Feed Costs and Re  Items  Feeds per animal unit, lbs.: Concentrates	turns from Your farm	All Dual-Pu Average of 60 farms	12.6  rpose Cattl 12 farms highest i returns above fee	e 12 farms n lowest in returns
Table 23. Feed Costs and Re  Items  Feeds per animal unit, lbs.: Concentrates	turns from Your farm	All Dual-Pu Average of 60 farms	12.6 urpose Cattl 12 farms highest i returns above fee	e 12 farms n lowest in returns d above feed
Table 23: Feed Costs and Re  Items  Feeds per animal unit, lbs.:	turns from Your farm	All Dual-Pu Average of 60 farms 1,755 3,374	12.6  prose Cattl 12 farms highest i returns above fee 2,183 2,635	e 12 farms n lowest in returns d above feed 1,584
Table 23: Feed Costs and Re  Items  Feeds per animal unit, lbs.: Concentrates Hay and fodder	turns from Your farm	All Dual-Pu Average of 60 farms	12.6 urpose Cattl 12 farms highest i returns above fee	e 12 farms n lowest in returns d above feed 1,584 3,695
Table 23: Feed Costs and Re  Items  Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage	turns from Your farm	All Dual-Pu Average of 60 farms 1,755 3,374	12.6  prose Cattl 12 farms highest i returns above fee 2,183 2,635	e 12 farms n lowest in returns d above feed 1,584 3,695
Table 23: Feed Costs and Re  Items  Feeds per animal unit, lbs.: Concentrates Hay and fodder	turns from Your farm	15.2  All Dual-Pu Average of 60 farms  1,755 3,374 3,160	12.6  urpose Cattl 12 farms highest i returns above fee  2,183 2,635 2,746	e 12 farms n lowest in returns d above feed 1,584 3,695 2,593
Table 23: Feed Costs and Re  Items  Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage  Feed cost per animal unit: Concentrates	turns from Your farm	15.2  All Dual-Pu Average of 60 farms  1,755 3,374 3,160  \$21.47	12.6 arpose Cattl 12 farms highest i returns above fee 2,183 2,635 2,746 \$27.23	e 12 farms n lowest in returns d above feed 1,584 3,695 2,593 \$19.22
Table 23: Feed Costs and Re  Items  Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage  Feed cost per animal unit: Concentrates Roughages	turns from Your farm	15.2  All Dual-Pu Average of 60 farms  1,755 3,374 3,160  \$21.47 15.98	12.6  arpose Cattl 12 farms highest i returns above fee  2,183 2,635 2,746  \$27.23 13.51	20.2 e 12 farms n lowest in returns d above feed  1,584 3,695 2,593  \$19.22 15.69
Table 23: Feed Costs and Re  Items  Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage  Feed cost per animal unit: Concentrates Roughages Pasture	turns from Your farm	15.2  All Dual Pu Average of 60 farms  1,755 3,374 3,160  \$21.47 15.98 5.80	12.6  prose Cattl 12 farms highest i returns above fee  2,183 2,635 2,746  \$27.23 13.51 5.75	20.2  e
Table 23: Feed Costs and Re  Items  Feeds per animal unit, lbs.: Concentrates Hay and fodder Silage  Feed cost per animal unit: Concentrates Roughages	turns from Your farm	15.2  All Dual-Pu Average of 60 farms  1,755 3,374 3,160  \$21.47 15.98 5.80 \$43.25	12.6  arpose Cattl 12 farms highest i returns above fee  2,183 2,635 2,746  \$27.23 13.51	20.2 e 12 farms n lowest in returns d above feed  1,584 3,695 2,593  \$19.22 15.69
Table 23: Feed Costs and Re  Items  Feeds per animal unit, lbs.:     Concentrates     Hay and fodder     Silage  Feed cost per animal unit:     Concentrates     Roughages     Pasture     TOTAL FEED COSTS	turns from Your farm	15.2  All Dual Pu Average of 60 farms  1,755 3,374 3,160  \$21.47 15.98 5.80	12.6  prose Cattl 12 farms highest i returns above fee  2,183 2,635 2,746  \$27.23 13.51 5.75	20.2  e
Table 23: Feed Costs and Re  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	turns from Your farm	15.2  All Dual-Pu Average of 60 farms  1,755 3,374 3,160  \$21.47 15.98 5.80 \$43.25	12.6  urpose Cattl 12 farms highest i returns above fee  2,183 2,635 2,746  \$27.23 13.51 5.75 \$46.49	e  12 farms n lowest in returns d above feed  1,584 3,695 2,593  \$19.22 15.69 6.52 \$41.43
Table 23: Feed Costs and Re  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	turns from Your farm	15.2  All Dual-Pu Average of 60 farms  1,755 3,374 3,160  \$21.47 15.98 5.80 \$43.25	12.6  arpose Cattl 12 farms highest i returns above fee  2,183 2,635 2,746  \$27.23 13.51 5.75 \$46.49	e  12 farms  1 lowest in  returns  d above feed  1,584  3,695  2,593  \$19.22  15.69  6.52  \$41.43
Table 23: Feed Costs and Re  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	turns from Your farm	15.2  All Dual-Pu Average of 60 farms  1,755 3,374 3,160  \$21.47 15.98 5.80 \$43.25  \$56.25 37.91	12.6  12 farms highest i returns above fee  2,183 2,635 2,746  \$27.23 13.51 5.75 \$46.49	e  12 farms  1 lowest in  returns  d above feed  1,584  3,695  2,593  \$19.22  15.69  6.52  \$41.43  \$39.65  26.56
Table 23: Feed Costs and Re  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	turns from Your farm	15.2  All Dual-Pu Average of 60 farms  1,755 3,374 3,160  \$21.47 15.98 5.80 \$43.25	12.6  arpose Cattl 12 farms highest i returns above fee  2,183 2,635 2,746  \$27.23 13.51 5.75 \$46.49	e  12 farms  1 lowest in  returns  d above feed  1,584  3,695  2,593  \$19.22  15.69  6.52  \$41.43  \$39.65  26.56
Table 23: Feed Costs and Re  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	turns from Your farm	15.2  All Dual Pu Average of 60 farms  1,755 3,374 3,160  \$21.47 15.98 5.80 \$43.25  \$56.25 37.91 \$94.16	12.6  12 farms highest i returns above fee  2,183 2,635 2,746  \$27.23 13.51 5.75 \$46.49  \$86.14 42.21 \$128.35	e  12 farms n lowest in returns d above feed  1,584 3,695 2,593  \$19.22 15.69 6.52 \$41.43  \$39.65 26.56 \$66.21
Table 23: Feed Costs and Re  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	turns from Your farm	15.2  All Dual-Pu Average of 60 farms  1,755 3,374 3,160  \$21.47 15.98 5.80 \$43.25  \$56.25 37.91	12.6  12 farms highest i returns above fee  2,183 2,635 2,746  \$27.23 13.51 5.75 \$46.49	e  12 farms  1 lowest in  returns  d above feed  1,584  3,695  2,593  \$19.22  15.69  6.52  \$41.43  \$39.65  26.56
Table 23: Feed Costs and Re  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  RETURNS ABOVE FEED PER ANIMAL UNIT	turns from Your farm	15.2  All Dual-Pu Average of 60 farms  1,755 3,374 3,160  \$21.47 15.98 5.80 \$43.25  \$56.25 37.91 \$94.16 \$50.91	12.6  12 farms highest i returns above fee  2,183 2,635 2,746  \$27.23 13.51 5.75 \$46.49  \$86.14 42.21 \$128.35	e  12 farms n lowest in returns d above feed  1,584 3,695 2,593  \$19.22 15.69 6.52 \$41.43  \$39.65 26.56 \$66.21
Table 23: Feed Costs and Re  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	turns from Your farm	15.2  All Dual Pu Average of 60 farms  1,755 3,374 3,160  \$21.47 15.98 5.80 \$43.25  \$56.25 37.91 \$94.16	12.6  12 farms highest i returns above fee  2,183 2,635 2,746  \$27.23 13.51 5.75 \$46.49  \$86.14 42.21 \$128.35	e  12 farms n lowest in returns d above feed  1,584 3,695 2,593  \$19.22 15.69 6.52 \$41.43  \$39.65 26.56 \$66.21 \$24.78 \$167
Table 23: Feed Costs and Re  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  RETURNS ABOVE FEED PER ANIMAL UNIT  RETURNS FOR \$100 OF FEED	turns from Your farm	15.2  All Dual-Pu Average of 60 farms  1,755 3,374 3,160  \$21.47 15.98 5.80 \$43.25  \$56.25 37.91 \$94.16 \$50.91	12.6  12 farms highest i returns above fee  2,183 2,635 2,746  \$27.23 13.51 5.75 \$46.49  \$86.14 42.21 \$128.35 \$81.86	e  12 farms n lowest in returns d above feed  1,584 3,695 2,593  \$19.22 15.69 6.52 \$41.43  \$39.65 26.56 \$66.21 \$24.78
Table 23: Feed Costs and Re  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  RETURNS ABOVE FEED PER ANIMAL UNIT	turns from Your farm	15.2  All Dual-Pu Average of 60 farms  1,755 3,374 3,160  \$21.47 15.98 5.80 \$43.25  \$56.25 37.91 \$94.16 \$50.91	12.6  12 farms highest i returns above fee  2,183 2,635 2,746  \$27.23 13.51 5.75 \$46.49  \$86.14 42.21 \$128.35 \$81.86	e  12 farms n lowest in returns d above feed  1,584 3,695 2,593  \$19.22 15.69 6.52 \$41.43  \$39.65 26.56 \$66.21 \$24.78 \$167

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

Table 24. Feed Costs and Re	Your farm	Average of all	Farms highest in	Farms lowest in returns above feed
Beef breeding herd: no. of farms:		44	11	11
Feeds per animal unit, lbs.:	urabaningsa, visco / vin samu manara ris mer inservice els in		programme angle in the last constituent and the second and the sec	and the state of t
Concentrates		1,369	1,773	906
Legume hay		1,673	2,110	1,861
Other hay		386	419	355
Fodder and stover		405	348	271
Silage		2,825	2,454	3,833
Skim milk*		149	114	72
Whole milk*	:	26	9	6
Feed cost per animal unit:	ф	<b>da</b> 0 75	<b>#2</b> 0 04	фт.1 ОО
Concentrates	\$	\$16.35	\$20.84	\$11.00
Roughages		11.54	12.87	13.38 .27
Milk*	***************************************	.80	.41	6.21
Pasture TOTAL FEED COSTS	6	<u>5.86</u> \$34.55	$\frac{4.82}{$38.94}$	\$30.86
TOTAL FEED COSTS	Φ	\$54.55	φυο•24±	φυΟ•ΟΟ
Value of produce per animal unit:				
Dairy products	<b>d</b>	\$11.72	\$20.50	\$5.72
Net increase in value of animals	Ψ	58.36	76.08	37.61
TOTAL VALUE PRODUCED	\$	\$70.08	\$96.58	\$43.33
RETURNS ABOVE FEED COST PER ANIMAL UNIT	\$	\$35.53	\$57.64	\$12.47
RETURNS FOR \$100 OF FEED	\$	\$215	\$286	\$144
Number of cows and herd bulls Number of animal units in the herd		17.4 27.3	18.1 26.7	17.2 26.7
Feeder cattle: no. of farms:		94	19	19
Feeds per cwt. beef produced, lbs.:	<del></del>			
Corn		818	607	1,066
Small grain		60	30	113
Com. feeds - under 25% protein		8	7	3
Com. feeds - over 25% protein		29	19	34
Legume hay dama agrant	Martin along a resource of a second or a second of the sec	285	263	399
Other hay again has a		69	39	141
Fodder and stover		36	16	21
Total concentrates		915	663	1,216
Total dry roughages		390	318	561
Cilono		400	256	324
The state of the s	***************************************			problemit.
Feed cost per cwt: beef produced:			The second section of the second section s	TELFEAS,
Concentrates	\$	\$11.02		
Roughages		1.82	1.46	2.25
Pasture	1.7	43		
TOTAL FEED COSTS	\$	\$13.27	<b>\$9% 66</b> % (47.55) Tilean (4.55)	1 4 75
Net increase in value of feeders	\$	\$16.91	\$19.27	\$12.49
RETURNS ABOVE FEED COST PER CWT.BEEF PROD.	\$	\$3.64	\$9.61	\$-5.20
RETURNS FOR \$100 OF FEED	\$	\$139	\$204	\$73
Price received per 100 lbs. beef sold	Ś		\$12.70	\$11.30
Price received per 100 lbs. bought in 1942		\$11.82		\$11.45
TT TOO TOOCTAON DOT TOO TOO DOUGHTO THE TATE	€ 1 5 %	· · · · · · · · · · · · · · · · · · ·	പാര് എന്നും പൂർ	10 Ω
No. of animal unite		الساء وتتاب	~~~	
No. of animal units  Pounds of beef produced  *Several farmers had both dairy or dual-put	• • • • • • • • • • • • • • • • • • • •	17.496	17,244	8,105

Table 25. Feed Costs and	Returns to Your farm	from Sheep, Average of all farms	1942 Farms highest in returns above feed	Farms lowest in returns above feed
Farm flock: no. of farms:		63	13	13
Feeds per head, * 1bs.: Concentrates Legume hay Other hay Fodder and stover Silage		92 167 31 44 77	74 144 58 30 86	122 138 13 62 58
Feed cost per head: Concentrates Roughages Pasture TOTAL. FEED COSTS	\$	\$1.14 .88 <u>.99</u> \$3.01	\$.93 .86 <u>1.03</u> \$2.82	\$1.53 .75 <u>1.06</u> \$3.34
Value of produce per head: Wool Net increase in value of sheep TOTAL VALUE PRODUCED	\$	\$3.02 <u>5.60</u> \$8.62	\$3.45 <u>9.53</u> \$12.98	\$2.82 <u>1.98</u> \$4.80
RETURNS ABOVE FEED COST PER HEAD	\$	\$5.61	\$10.16	\$1.46
RETURNS FOR \$100 OF FEED	\$	\$321	\$519	\$154
Price per 100 lbs. of lambs sold Price per lb. wool sold (cents) Pounds of wool per sheep sheared Number of ewes kept for lambing % lamb crop % death loss	\$	\$13.12 40.9 9.0 49 109	\$13.37 39.6 10.3 25 113	\$11.11 39.7 8.2 61 104 21
No. of head of sheep* (farm flock)		77	37	86
Feeder sheep: no. of farms  Feeds per cwt. sheep produced, lbs.:  Concentrates Legume hay Other hay Fodder and stover Silage		26 926 397 48 20 370	9 778 292 31 46 38	9 1,369 546 93 11 701
Feed cost per head: Concentrates Roughages Pasture TOTAL FEED COSTS	\$	\$11.02 2.19 1.02 \$14.23	\$9.02 1.35 <u>1.79</u> \$12.16	\$16.47 3.30 <u>.64</u> \$20.41
Net increase in value of sheep	\$	\$20.90	\$26.46	\$17.08
RETURNS ABOVE FEED COST PER CWT. PRODUCED	\$	\$6.67	\$14.30	\$-3 <sub>•</sub> 33
RETURNS FOR \$100 OF FEED	\$	\$1.76	\$234	\$84
Price per cwt. sheep sold Price per cwt. for sheep bought in 1942 % death loss Pounds of sheep produced	\$	\$12.47 \$12.61 2.9 12,938	\$12.95 \$12.73 3.3 10,621	\$12.10 \$12.64 3.1 5,521

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

Table 26. Feed Costs and Retu	rns from	Hogs and Chi	ickens, 1942	
I tems	Your farm	Average of all farms	Farms highest in return above feed	Farms lowest in return above fee
		162	32	32
Hogs: no. of farms Feed per cwt. hogs produced, lbs.:		102	UA	<u> </u>
Corn		390	299	504
Small grain		78	66	113
Com. feeds - under 25% protein		5	. 6	6
Com. feeds - over 25% protein		23	18	27
Total concentrates		496	389	650
Skim milk and buttermilk	4	86	90	. 99
Feed cost per cwt. hogs produced:				
Concentrates	\$	<b>\$6.4</b> 0	\$5.04	\$8.30
Skim milk and buttermilk		.18	.1.9	.20
Pasture	,	.18	.19	21
TOTAL FEED COSTS	\$	\$6.76	\$5.42	\$8.71
Net. incr. in value per cwt. hogs prod.	\$	\$14.37	\$15.23	\$13.94
RET. ABOVE FEED COST PER CWT. HOGS PROD.	\$	\$7.61	\$9.81	\$5.23
RETURNS FOR \$100 OF FEED	\$	\$221	\$289	\$162
Price received per cwt. hogs sold	\$	\$13.13	\$13.84	\$12.82
Total no. of litters raised		20.5	26.4	18.1
No. of pigs born per litter	-	7.8	8.0	7.0
No. of pigs weaned per litter		6.3	6.4	5.5
% of two-litter systems		33.2	30.8	31.7
Pounds of hogs produced		35,161	44,705	29,875
Chickens: no. of farms:		147	29	29
Feed per hen, lbs.: Grain		108	106	106
Commercial feeds		24	<u>25</u>	_22
Total concentrates		132	131	128
Skim milk and buttermilk		. 24	35	18
Feed cost per hen:		40.30	<b>40.10</b>	\$2.13
Concentrates	Ψ	. \$2.10	\$2.12	
Skim milk and buttermilk TOTAL FEED COST	\$	.0 <u>5</u> \$2.15	<u>.08</u> \$2.20	<u>.04</u> \$2.17
Value of produce per hen:		,		<u>.</u>
Eggs sold and used in house	\$	\$3.18	\$3.85	\$2.43
Net increase in value of chickens TOTAL VALUE PRODUCED	\$	1.04 \$4.22	1.8 <u>1</u> \$5.66	<u>.52</u> \$2.95
RETURNS ABOVE FEED COST PER HEN	\$	\$2.07	<b>\$3.</b> 46	\$.78
RETURNS FOR \$100 OF FEED	\$	\$210	\$281	\$148
Price rec'd. per doz.eggs sold (cents)		28.4	29.0	28.0
Eggs laid per hen		135	162	10
No. of hens	****	218	191	222
			84	70

	V	or Turkeys,		4 farms
and the control of the state of	Your	Average	4 rarms highest in	
	farm	of 8	_	
<del>-</del> 4		farms	returns	returns
[tems	·	<del></del>	above feed	above fee
Feed per cwt. turkeys produced, lbs.:			750	47.0
Grain		_ 381	352	410
Com. feeds - under 25% protein		29	16	43
Com. feeds - over 25% protein	*****	_ 154	165	142
		4 (2)		===
Total concentrates		_ 564	533	59.5
Skim milk		<b>-</b> 0	0	. 1
		4		, 
eed cost per cwt. turkeys produced	\$	_ \$11 <b>.4</b> 0 *	\$10.39	\$12.41
		•		
alue of produce per cwt. turkeys prod.				,
Eggs and poults	\$	_,\$0 **	~ \$ O	\$ 0
Net increases in turkeys		25.49 \$25.49	<u>25.85</u>	25.13
TOTAL VALUE PRODUCED	\$	_ \$25.49	\$25.85	\$25.13
RETURNS ABOVE FEED COST PER CWT.				
TURKEYS PRODUCED	\$	\$14.09	\$15.46	\$12.72
		Mary Mary	ale to the first	
ETURNS FOR \$100 OF FEED	\$	_ \$227	\$248	\$204
•			5 <b>1</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Price rec'd per lb. turkey sold (cts.)		29.1	29.7	28.6
				PP W/
	Action to the second second second		The second second	से से स्वर्गित हैं। 
ounds of turkeys produced	distribuje indice v to rede vendejevi se ajamenje ideovaje. Po v to v	33,675	32,260	35,090
Counds of turkeys produced		·		
	isc. Power	33,675	32,260	35,090
Pounds of turkeys produced  Table 28. Feed Costs for Horses and M		33,675	32,260	35,090 1942
	Your	33,675  and Machir  Average	32,260 hery Expense, 32 most	35,090 1942 32 least
		and Machir Average of 161	32,260 hery Expense, 32 most profit-	35,090 1942 32 least profit-
Table 28. Feed Costs for Horses and M	Your	33,675  and Machir  Average	32,260  mery Expense, 32 most profit- able	35,090  1942 32 least profitable
Table 28. Feed Costs for Horses and M	Your	and Machir Average of 161	32,260 hery Expense, 32 most profit-	35,090 1942 32 least profit-
Items Feed per horse,** lbs.:	Your	and Machir Average of 161 farms*	32,260  mery Expense, 32 most profit- able farms*	35,090  1942 32 least profit- able farms*
Table 28. Feed Costs for Horses and M tems Teed per horse, ** lbs.: Grain	Your	and Machir Average of 161 farms*	32,260  nery Expense, 32 most profit- able farms*	35,090  1942 32 least profit-able farms*
Table 28. Feed Costs for Horses and M  Items Feed per horse, ** lbs.: Grain Hay	Your	33,675  and Machir Average of 161 farms*  1,933 2,852	32,260  mery Expense, 32 most profit- able farms*  2,021 2,616	35,090 1942 32 least profit- able farms* 1,580 2,389
Table 28. Feed Costs for Horses and M tems Teed per horse, ** lbs.: Grain	Your	and Machir Average of 161 farms*	32,260  nery Expense, 32 most profit- able farms*	35,090 1942 32 least profit- able farms* 1,580
Table 28. Feed Costs for Horses and M  tems  eed per horse, ** lbs.: Grain Hay Fodder and stover	Your	33,675  and Machir Average of 161 farms*  1,933 2,852	32,260  mery Expense, 32 most profit- able farms*  2,021 2,616	35,090 1942 32 least profit- able farms* 1,580 2,389
Table 28. Feed Costs for Horses and Motems Teed per horse, ** lbs.: Grain Hay Fodder and stover Feed costs per horse:	Your	and Machin Average of 161 farms* 1,933 2,852 294	32,260  ery Expense, 32 most profit- able farms*  2,021 2,616 160	35,090 1942 32 least profit- able farms* 1,580 2,389 303
Table 28. Feed Costs for Horses and Motems  Teed per horse, ** lbs.: Grain Hay Fodder and stover  Teed costs per horse: Grain	Your	33,675  and Machir Average of 161 farms*  1,933 2,852 294 \$23.72	32,260  mery Expense, 32 most profit- able farms*  2,021 2,616 160  \$24.84	35,090  1942 32 least profit-able farms*  1,580 2,389 303
Table 28. Feed Costs for Horses and Motens Teed per horse, ** lbs.: Grain Hay Fodder and stover Teed costs per horse: Grain Roughage	Your	33,675  and Machir Average of 161 farms*  1,933 2,852 294 \$23.72 9.19	32,260  nery Expense, 32 most profit- able farms*  2,021 2,616 160  \$24.84 8.39	35,090  1942 32 least profit-able farms*  1,580 2,389 303  \$19.24
Table 28. Feed Costs for Horses and M  tems  eed per horse, ** lbs.:  Grain  Hay  Fodder and stover  eed costs per horse:  Grain	Your	33,675  and Machir Average of 161 farms*  1,933 2,852 294 \$23.72	32,260  mery Expense, 32 most profit- able farms*  2,021 2,616 160  \$24.84	35,090  1942 32 least profit-able farms*  1,580 2,389 303
Table 28. Feed Costs for Horses and M  tems  eed per horse, ** lbs.:  Grain  Hay  Fodder and stover  eed costs per horse:  Grain  Roughage  Pasture	Your	33,675  and Machir Average of 161 farms*  1,933 2,852 294  \$23.72 9.19 4.15	32,260  nery Expense, 32 most profit- able farms*  2,021 2,616 160  \$24.84 8.39 4.09	35,090  1942 32 least profit-able farms*  1,580 2,389 303  \$19.24 3: 7.67 4.99
Table 28. Feed Costs for Horses and M  tems eed per horse, ** lbs.: Grain Hay Fodder and stover  eed costs per horse: Grain Roughage	Your	33,675  and Machir Average of 161 farms*  1,933 2,852 294 \$23.72 9.19	32,260  nery Expense, 32 most profit- able farms*  2,021 2,616 160  \$24.84 8.39	35,090  1942 32 least profit-able farms*  1,580 2,389 303  \$19.24
tems  eed per horse, ** lbs.:  Grain  Hay  Fodder and stover  eed costs per horse:  Grain  Roughage  Pasture  TOTAL FEED COSTS	Your	33,675  and Machir Average of 161 farms*  1,933 2,852 294  \$23.72 9.19 4.15 \$37.06	32,260  nery Expense, 32 most profit- able farms*  2,021 2,616 160  \$24.84 8.39 4.09 \$37.32	35,090  1942 32 least profit-able farms*  1,580 2,389 303  \$19.24 37.67 4.99 \$31.90
tems  eed per horse, ** lbs.:  Grain  Hay  Fodder and stover  eed costs per horse:  Grain  Roughage  Pasture  TOTAL FEED COSTS	Your	33,675  and Machir Average of 161 farms*  1,933 2,852 294  \$23.72 9.19 4.15  \$37.06  4.1	32,260  nery Expense, 32 most profit- able farms*  2,021 2,616 160  \$24.84 8.39 4.09 \$37.32 5.4	35,090  1942 32 least profit-able farms*  1,580 2,389 303  \$19.24 37.67 4.99 \$31.90 3.6
tems  eed per horse, ** lbs.:  Grain  Hay  Fodder and stover  eed costs per horse:  Grain  Roughage  Pasture  TOTAL FEED COSTS	Your	33,675  and Machir Average of 161 farms*  1,933 2,852 294  \$23.72 9.19 4.15 \$37.06	32,260  nery Expense, 32 most profit- able farms*  2,021 2,616 160  \$24.84 8.39 4.09 \$37.32  5.4 .9	35,090  1942 32 least profit-able farms*  1,580 2,389 303  \$19.24 37.67 4.99 \$31.90
Table 28. Feed Costs for Horses and Motens  Teed per horse, ** lbs.:  Grain  Hay  Fodder and stover  Feed costs per horse:  Grain  Roughage  Pasture  TOTAL FEED COSTS  Jumber of work horses  Jumber of colts	Your	33,675  and Machir Average of 161 farms*  1,933 2,852 294  \$23.72 9.19 4.15  \$37.06  4.1 .7	32,260  nery Expense, 32 most profit- able farms*  2,021 2,616 160  \$24.84 8.39 4.09 \$37.32  5.4 9	35,090  1942 32 least profit—able farms*  1,580 2,389 303  \$19.24 3.7.67 4.99  \$31.90  3.66 .8
tems  eed per horse, ** lbs.:  Grain  Hay  Fodder and stover  eed costs per horse:  Grain  Roughage  Pasture  TOTAL FEED COSTS  Jumber of work horses  Jumber of colts  Erop acres per farm	Your	33,675  and Machir Average of 161 farms*  1,933 2,852 294  \$23.72 9.19 4.15  \$37.06  4.1 .7  218.5	32,260  nery Expense, 32 most profit- able farms*  2,021 2,616 160  \$24.84 8.39 4.09 \$37.32  5.4 9 314.0	35,090  1942 32 least profit-able farms*  1,580 2,389 303  \$19.24 3.7.67 4.99 \$31.90 3.6 .8
Table 28. Feed Costs for Horses and M  tems  Teed per horse, ** lbs.:  Grain  Hay  Fodder and stover  Teed costs per horse:  Grain  Roughage  Pasture  TOTAL FEED COSTS	Your farm \$\$	33,675  and Machir Average of 161 farms*  1,933 2,852 294  \$23.72 9.19 4.15  \$37.06  4.1 .7  218.5	32,260  nery Expense, 32 most profit- able farms*  2,021 2,616 160  \$24.84 8.39 4.09 \$37.32  5.4 9	35,090  1942 32 least profit—able farms*  1,580 2,389 303  \$19.24 3.7.67 4.99  \$31.90  3.66 .8

<sup>\*</sup>Four farms did not have horses. The number of horses, crop acres and expenses per crop acre are averages of 165 farms.

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

Те	able 29	9. Family	y Living	from the	Farm,	1942		<u>.</u>
	Your	Average	33 most	33 least	Your	Averag	e 33 mos	t 33 least
	farm	of 165	profit-	profit-	farm	of 165	profit	- profit-
		farms	able	able		farms	able	able
Items			farms	farms			farms	farms
No. of persons (Family	7	3.4	3.8	2.9	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	111	2	
adult equiv. (Other*		• 5	•7	•4				**************************************
Whole milk		1196 qts.	. 1492	1125	\$	\$49.10	\$58.30	\$46.48
Skim milk	<del></del>	394 qts.		133		1.92	2.71	.63
Cream		291 pts.		246	<del></del>	39.12	49.31	31.64
Farm made butter		12 lbs.		21		5.23	6.27	8.62
Eggs		184 doz.	227	163		47.08	58.33	41.64
Cattle		416 lbs.	530	392		42.96	61.67	38.93
Hogs		541 lbs.	563	458		68.88	71.91	57.40
Sheep		8 lbs.	7	2.		1.02	.70	.22
Poultry		110 lbs.	83	94		18.22	12.91	15.11
Potatoes		15 <b>bu.</b>	15	15		12.79	12.66	13.62
Vegetables & fruits	Tarte.			_		50.65	68.58	38.54
Farm fuel		***		***	,	11.08	5.77	6.66
Rental value of house						236.13	278.99	215.67
Total		•			\$	\$584.18	\$688.11	\$515.16
								**

Household and Personal Expenses for Table 30. Those Farms Which Kept Complete Accounts of These Expenses, Your 24 most 24 least Average of 122 profitprofitfarm farms able able farms Items farms Number of persons - family 4.0 4.5 4.9 Number of persons, (Family 3.5 4.0 3.1 •4 adult equivalent (Other\* • 5 •6 \$321 Food and meals bought \$395 \$479 Operating and supplies 124 144 152 Clothing and clothing materials 228 333 151 Personal care, personal spending 71 47 103 Furnishings and equipment 145 214 100 Education, recreation and development 130 228 51 Medical care and health insurance -123 153 80 Church, welfare, gifts and income taxes 152 217 84 Personal share of auto expense 62 86 103 Household share of elect. & gas eng. expenses 40 50 39 H.H. & pers.shr.of new auto, gas eng. & motors bot 26 24 31 Life insurance and other investments 544 938 135 \$2,089 \$1,218 Total household and personal cash expenses \$2,996 \$325 \$339 Food furnished by the farm \$408 Fuel furnished by the farm 13 11 9 House rental 237 287 Total household and personal expenses \$2,678 \$3,702 \$1,796

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

Summary of Farm Earnings - Averaged by Counties, 1942 Table 31. Jackson Lincoln Martin Murray Nobles Pipestone Redwood Brown & Cotton-Fari-& Rock Watonwan DOOM. bault & Lyon FARM EXPENSES \$2,306 \$1,431 \$2,171 \$457 \$1,334 \$3,969 \$1,344 \$2,233 \$990 Cattle bought \$371 170 200 513 353 377 169 478 252 935 Hogs bought 220 245 543 244 Sheep bought 230 352 3,072 69 20 2,129 Poultry bought 85 84 84. 76 64 109 65 356 162 102 2,465 1,286 3,888 3,356 Feed 1.164 1,289. 1.469 1,057 1,230 3.079 146 173 108 148 180 138 182 108 Other livestock expense 1:07 187 546 332 368 336 326 295 336 418 330 389 Crop expense 1,849 Power machinery & equipment 1,104 1,577 1.480 1.784 1,566 1,530 1,256 1,770 1.241 258 168 206 Custom work hired 191 152 240 194 160 203 197 608 429 548 379 306 460 551 764 359 524 Buildings 436 443 563 461 ... 530 437 791 585 Hired labor 653 747 709 494 386 451 Taxes, insurance, & misc. 331 532 14. \$5,492 \$7,231 \$8,930 \$5,509 \$16,011 \$11,455 \$9,237 \$5,936 \$5,525 \$9,787 (1) Total purchases (2) Decrease in cap. 176 156 170 (3) Board to hired labor 121 85 138 128 128 116 166 365 (4) Unpaid family labor 437 307 348 314 161 381 600 274 308 2,016 (5) Int. on farm cap. 1.849 1.673 1.463 2,348 2.034 1,748 1.680. 1.891 1.568 \$7,641. (6) Total expenses \$8,249 \$18,910 \$12,324 \$11,556 \$9,513 \$10,910 \$8.051 \$14,255 \$7,853 FARM RECEIPTS \$5,149 \$3.744 \$2,470 \$8,786 \$3,107 \$5,838 Cattle sales \$3,002 \$3,094 \$1,523 \$1,282 .425 845 Dairy products 905 660 947 561 787 1,025 1.324 4.442 4.215 4,042 4,702 5,791 5,335 Hogs 3,059 3,596 3,520 3,416 1,324 3,867 Sheep 545 521 689 233 173 610 4.107 83 1,441 622 Poultry & eggs . 998 755 79.7 2,899 918 817 650 703 1,616 2,262 1,747 2,623 Crop 1,900 3,526 1,895 2,287 1,931 1,821 448 456 424 675 AAA payment 513 442 494 516 387 513 Miscellaneous cash receipts 483 551 478 244 678 828 522 477 295 508 \$16,129 .. (7) Total farm sales \$11,299 \$15,440 \$12,883 \$13,008 \$10,198 \$10,494 \$10,821 \$23,979 \$18,379 686 1.404 2,654 2,907 (8) Increase in cap. 938 2,310 2,883 2,189 1.808 2,539 617 (9) Family living from farm 544 430 721 604 552 528 610 511 \$21,643 \$19,653 \$12,655 (10) Total receipts \$16,637 \$12,939 \$13,561 \$26,382 \$12,958 \$15,797 \$16,435 g, 249 14,255 12,324 (6) Total expenses 7,853 11,556 9,513 10,910 7,641 18,910 8,051 (11) Oper. labor earnings 6.284 4,888 4,406 7,472 7,388 7,329 5,081 5,525 5,920 5,105

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Table 32. Miscellaneous Information - Averaged by Counties, 1942 Redwood Nobles Pipestone Jackson Lincoln Martin Murray Fari-Cotton-Brown & & Rock bault. & Lyon wood Watonwan FARM INVENTORIES (Beginning of year) 271 3,677 407 261 322 325 411 277 513 Horses 4,185 10.100 4,232 5,772 5,517 6.086 4.948 Productive livestock 4,845 3,241 4,029 3,957 4,137 462 3,916 Crop. seed and feed 2,678 3,708 7,682 2,423 7,364 14,730 2,377 2,912 3,111 3,041 Mach. and equipment 7,516 13,232 7,252 264 Buildings 19,316 13,908 \$38.860 **Eand** \$28,563 \$46.058 \$39,361 \$32,325 \$37,470 \$32,370 \$35,829 \$29,922 \$34,488 Total farm capital MEAS.OF FARM ORG. AND MANAGEMENT EFFIC. 95 101 86 90 120 98 774 89 113 Crcp yields - % of ave. 38.5 37.0 38.8 39.6 36.8 37.2 38.1 42.3 41.6 38.1 % high return crops 99 107 94 98 98 105 100 99 100 Index ret. from livestock 101 21.6 28.4 30.8 22.5 26.5 18.7 25.0 28.8 A. U. livestock per 100 A. 630 725 503 546 553 575 656 562 567 Work units 289 297 313 296 286 250 245 283 250 285 Work units per worker \$3.14 \$2.61 \$2.64 \$2.32 \$2.66 \$3.76 \$3.42 \$2.78 \$3.38 \$2.87 Exp. per work unit DISTRIBUTION OF ACRES IN FARM 138.4 114.6 101.7 94.1 79.4 66.0 129.7 80.3 74:2 135.1 Small grain 91.7 83.6 65.5 101.5 76.6 65.5 73.1 70.8 73.6 63.2 Cultivated crops 31.6 31.9 24.3 38.0 38.4 30.1 29.1 27.6 18.3 29.0 15.3 23.1 28.6 28.5 28.3 Tillable hay land 19.2 32·2 31.8 18.2 Tillable pasture 346.2 334.8 301.8 259.8 207.7 540.4 223.6 346.1 240.8 318.6 Total acres in farm 87.4 84.1 88.1 80.4 82.2 86.6 90.3 82.0 87.5 80.9 % land tillable CROP YIELDS PER ACRE 12.7 12.5 10.6 11.1 11.4 12.6 11.5 10.7. 10.6 11.6 Flax. bu. 23.8 25.2 20.5 18.0 29.6 31.7 15.8 34.3 26.2 21.2 Barley, bu. 52.3 37.8 42.5 37.8 52.2 39.7 45.0 49.6 42.3 52.3 Cats, bu. 13.3 14.8 8.4 10.7 13.4 12.6 9.9 15.8 10.6 12.7 Scybeans. bu. 54.9 54.6 51.2 44.6 49.1 71.4 59.7 48.0 70.5 68**.**7 Corn. grain. bu. 9.6 8.8 9.7 9.9 15.1 8.1 11.5 10.6 10.2 9.0 Corn silage, tons 2.5 2.7 2.4 2.0 2.2 3.0 2.6 2.6 3.3 2.3 Alfalfa hay, tons 81.4 73.1 99.3 43.4 47.9 54.1 53.9 63.9 54.9 52.0 AN. UNITS OF LIVESTOCK 22.2 29.2 23.8 17.9 36.1 36.7 25.4 22.5 33.5 36.2 dairy and du .- pur . cattle 11.6 12.7 -7.2 26.3 10.1 15.2 0 14.9 14.5 3.9 in beef breeding herd 30.İ 23.9 12.9 18.4 6.8 22.8 9.5 30.5 19.2 10.7 % feeder cattle 1.8 6.8 3.9 8.9 5.3 4.5 6.8 6.7 5.8 sheep-farm flock 9.4 0 10.5 1.4 0 4.5 3.4 0 2.4 2.6 sheep-feeders 29.2 25.0 25.5 19.5 37.1 24.7 26.5 29.9 28.1 hogs 0 6.2 3.2 •5 0 0 0 0 .2 1.2 turkeys 4.0 3.7 3.2 5.2 5.0 4.9 4.0 3.7 5.2 4.7 % hens

Table 33. Summary of Farm Earnings by Years\*

Items.		esta gillaria		1940	1941	1942
No. of farms				165	166	165
FARM EXPENSE:	, , , , , , , , , , , , , , , , , , , ,	<b>.</b>				5 J. G.
Horses box	-			\$ 32	\$ \$ 32	\$ 49
	dual-purpose cat	tle hought	1.	76	T	141
•	Le bought (includ		1 Main - 1 M	1,243	and the second s	1,718
Hogs bough		1118 10000107		103	4 (5)	339
	ght (including fe	eders)		414		866
	ought (including			99	and the second s	138
	ous crop expense			243		377
Feed bough		<b>5</b>		1,00		2,235
	ninery (farm shar	e) (new)		379	-	256
	ninery (farm shar			41		
Custom wo:		e) (uprech)		150		199
	general machinery	(now)		319		387
	general machinery			69		
	equipment (new)	(upreeh)		74		
		~\ ~\		20		57
	equipment (upkee			72		
	eous livestock ex	·		412		327
-	and fencing (new			88		156
	and fencing (upk	eep)		392		622
Hired labo	) <b>r</b>			31		355
Taxes				31. 1		35
Insurance	• · · · · · · · · · · · · · · · · · · ·	• .				6C
General fa				59 65 000		\$9 <b>,</b> 267
	farm purchases	. n		\$5,990	\$8,355	, co.
	ase in farm capit				- · · · · · · · · · · · · · · · · · · ·	7 4 7
1 1	furnished hired			131		143
	est on farm capit	a <b>.</b>		1,63		1,886
	l family labor	2 (2)	(-)	252		
	farm expenses (S	um of (1) to	(5)	\$8,008	\$10,645	\$11,656
FARM RECEIPTS	<b>-</b>				· 1.344	
Horses	5, V			\$ 42		\$ 47
	dual-purpose cat	tle		5 50 268	and the second s	
Dairy pro				570	4 -	804
	le (including fee	ders)		2,37		3,860
Hogs				1,162		4,336
<del></del>	wool (including	and the second s		470	, .	
	including turkeys	) ] .		372		
Eggs.	Tate € Value of the control of the			244	•	, (
Corn,	1. 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1			516		• ,
Small gra				849	7	
Other, cro		1		239		
Power mac	ninery sold	**************************************		168	1 4 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Crop and	general machinery	sold		8.		
Miscellan		41.45		394	1 176	168
Income from	om work off the f	arm		19:	3 196	16
Agricultu	cal Adjustment pa	yments		506		
	farm sales	er og til stiller og det er		\$8,444	\$11,704	\$15,158
	ase in farm capit	al		1,179		
	y living from far		,	48		
	farm receipts (7		<b>)</b>	\$10,100		A C C C C C C C C C C C C C C C C C C C
	farm expenses	, , , , , , , , , , , , , , , , , , , ,	•	8,008		
	tor's labor earni	nes (10) _ (	6)	2,09		
(TT) OPOIG	or b repor centr.	"Pr (TO) - 1	~ <i>,</i>	~,00		, 0920

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

Table 34. Summary of Miscellaneous Items by Years

Items	19 <b>4</b> 0	1941	1942
Total farm capital	\$32,724	\$36,613	\$37,728
	φυκ, ιντ	φου, σπο	φε.,
MEAS. OF FARM ORG. AND MANAGEMENT EFFICIENCY	75.0	36.5	38.9
% tillable land in high return crops	35.9	24.7	24.7
Animal units prod. livestock per 100 A.	22.1	631	624
Work units	569		281
Work units per worker	263	264	\$2.90
Expenses per work unit	\$2.17	\$2.30	291
ACRES PER FARM	279	295	219
Crop acres per farm CROP YIELDS PER ACRE	213	223	213
Flax, bu.	13.7	12.0	11.5
Barley, bu.	42.3	29.6	24.0
Oats, bu.	60.1	26.4	44.8
Corn, grain, bu.	46.2	55.9	57.4
Corn silage, tons	8.5	9.5%	10.3
Alfalfa hay, tons	2.0	2.0	2.5
RETURN ABOVE FEED COST PER:	<b>~ (*)</b>		
Dairy cow	\$43.03	\$56.89	\$70.13
Dual-purpose cow	26.49	<b>39.1</b> 3	54.28
	18.20	25.06	35.53
Animal unit in beef breeding herd	2.92	3.99	3.64
100 pounds feeder cattle produced	3.27	5.96	5.61
Head of sheep in farm flock	2.13	8.01	6.67
100 pounds feeder sheep produced	1.23	5.15	7.61
100 pounds hogs produced		1.35	2.07
Hen	.96 5 74	9.63	14.09
100 pounds turkeys produced	5.74	3.00	T. T. O.
FEED COST PER:	\$46.50	\$53.11	\$62.99
Dairy cow		44.19	48.55
Dual-purpose cow	34.85		34.55
Animal unit in beef breeding herd	29.86	33.57	and the second s
100 pounds of feeder cattle produced	8.00	9.21	13.27
Head of sheep in farm flock	2.60	2.76	3.01
100 pounds feeder sheep produced	7.16	8.38	14.23
100 pounds hogs produced	4.29	5.55	6.76
Hen	1.11	1.50	2.15
100 pounds turkeys produced	7.27	8.26	11.40
Horse	29.74	31.80	37.06
MISC. LIVESTOCK INFORMATION			
No. of work horses	4.1	4.2	4.0
No. of colts	1.0	1.0	.7
No. of dairy or dual-purpose cows	8.6	9.1	8.6
Head of cattle in beef breeding herd	9.0	9.4	9.9
Pounds feeder cattle produced	8,678	14,087	10,119
<b>建</b> 套 1000 000 000 000 000 000 000 000 000 0		4,55,54,15	
Litters of pigs	13.6	16.9	20.1
Pounds of hogs produced	21,335	27,550	34,522
No. of hens	161	173	196
	the state of the state of the	and the steel of the state of t	
Pounds of butterfat per dairy cow	250	254	250
Pounds of butterfat per dual-purpose cow	179	190	190
No. of pigs weaned per litter	6.2	6.4	6.3
% lamb crop	110	110	109

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Table 34. Summary of Miscellaneous Items by Years (Continued)

Items	1940	1941	1942
2 COMP			:
PRICE RECEIVED PER:		•	· · · · · · · · · · · · · · · · · · ·
Pound butterfat sold to creameries	\$ .31	\$ .37	\$ .42
100 pounds feeder cattle	8.81	10.13	12.22
100 pounds feeder sheep	8.74	10.08	12.47
Pound of wool	. 29	• 38	.41
100 pounds of hogs	5.15	9.07	13.13
Dozen eggs	.15	.21	•28
Pound of turkeys	.14	.18	.29
PRICE OF FEED			
Shelled corn, bu.	\$ .47	\$ .54	\$ •68
Oats, bu.	.26	.32	•41
Barley, bu.	.31	. 39	.52
Alfalfa hay, ton	7.50	8.50	8.00
Timothy hay, ton	4.80	5.45	5.15
Corn silage, ton	2.10	2.55	2.75
Bran, cwt.	1.20	1.50	2.10
Linseed oilmeal, cwt.	1.75	2.00	2.40
Tankage, cwt.	2.50	3.20	4.10
Meat scraps, cwt.	2.55	3.20	4.10

Suggestions for Improvements