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UNIVERSITY OF MINNESOTA

Department of Agriculture

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, Waseca, and Winona Counties Cooperating

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Annual Report of the Southeastern Minnesota Farm Management Service 1946

Cooperator:

Mimeographed Report No. 162 Division of Agricultural Economics University Farm St. Paul 1, Minnesota April 1947

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Nineteenth Annual Report of the Farm Management Service of Dakota, Dodge, Freeborn, Goodhue, LeSueur, Mower, Nicollet, Olmsted, Rice, Scott, Steele, Wabasha, Waseca, and Winona Counties for the Year 1946.

Prepared by T.R. Nodland, G.A. Pond and R.O. Olson

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 Dodge, Freeborn, Goodhue, Rice, Steele and Waseca counties organized late in 1927 the Farm Management Service Project, to operate in the above names 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 in this service pays an annual fee which covers a part of the cost. The balance of the cost is defrayed by the University of Minnesota and the United States Department of Agriculture.

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. Extension work in connection with the project is handled by S.B. Cleland and J.B. McNulty of the Agricultural Extension Division. Glen Myers is the field agent for this project. At the end of the year, Howard Ottoson and R.R. Beneke of the Division of Agricultural Economics aided in closing the records. County agricultural extension agents who cooperate in this project include, C.O. Quie, V. Sander, C.L. Blakeslee, G.J. Kunau, R.D. Evans, Everell Smith, F.L. Liebenstein, F.E. Wetherill, Ray Aune, Milton Hoberg, Ed Slettom, C. Graham, J.R. Gute, Oscar Nelson, Herbert Feldman, C.F. Murphy and Geo. Chambers.

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 1946 were:

President, Wm. A. Benitt, Hastings, Dakota county; Vice-President, Homer Goss, Lewiston, Winona County; Secretary-Treasurer, Emery Lindesmith, Owatonna, Steele County.

The board of directors included these officers and also the following:
A.M. Falkenhagen, Dodge county; Alvin Ulland, Freeborn county; Harvery Dankers,
Goodhue county; Carl Kehret, Mower county; Adolph Lokensgard, Nicollet County;
Charles Passe, Olmsted county; D.L. Krenik, LeSueur, County; Donald Finger,
Rice county; Herman Krueger, Scott county; Harvey Carlton, Wabasha county;
and David Zimmerman, Waseca county.

The following tabulation shows by counties the number of records submitted in 1946:

Dakota	7	Mower	12	Steele	19
Dodge	15	Nicollet	12	Wabasha	9
Freeborn	18	Olmsted	11	Waseca	19
Goodhue	22	Rice	11	Winona	9
LeSueur	7†	Scott	9	Total.	177

The table on page 4 and succeeding pages show 170 farms. Seven farms have been omitted from all the averages in the tables because they differed so widely in type from the others or the records were not sufficiently complete for a full analysis.

Because the farmers included in this study are, in general, above the average in managerial ability and operate larger and more productive farms, they have returns materially higher than the average for this section of the state. There were, nevertheless, wide variations in the methods and practices followed by these men. It is reasonable to assume that similar variations occur among all farmers in the area. To the extent that this is true, this report should be of value to all farmers and to others interested in agriculture in that it illustrates how farm records may be used as a basis for making an analysis of a farm business and for improving the management of a farm.

Table 1. Monthly and Annual Precipitation

Precip- Depart- Precip- Depart- Precip- Depart- itation ure from itation ure from normal normal normal Inches Inch	1	
normalnormalnormalInchesInchesInchesInchesJanuary1.39+0.291.49+0.581.42+0.74	1	
Inches Inches Inches Inches Inches Inches January 1.39 +0.29 1.49 +0.58 1.42 +0.74		
January 1.39 +0.29 1.49 +0.58 1.42 +0.74		
February 0.75 -0.07 0.78 -0.13 0.70 +0.01	•	
March 1.62 +0.30 3.78 +2.55 3.39 +2.28		
April 0.46 -2.00 0.84 -1.56 0.42 -1.49		
May 3.44 -0.36 7.01 +3.18 3.14 -0.06		
June 4.47 -0.12 3.96 -0.62 4.96 +0.59		
July 0.41 -2.75 0.49 -2.99 0.91 -2.44		
August 3.98 +0.53 4.14 +0.49 1.46 -1.95		
September $6.47 + 2.99 6.51 + 2.78 6.17 + 2.72$		
October 3.13 +1.03 3.62 +1.49 3.26 +1.18		
November .1.20 -0.37 2.34 +0.87 1.68 +0.34		
December 0.77 -0.15 1.13 +0.18 .88 +0.20		
1946 Total 28.09 -0.68 36.09 +6.92 28.39 +2.12		
1945 Total $3^{4} \cdot 16 + 5 \cdot 39$ $38 \cdot 71 + 9 \cdot 5^{4}$ $36 \cdot 3^{4} + 10 \cdot 07$		
1944 Total 22.47 -6.30 30.95 +1.78 31.84 +5.57		
1943 Total 23.50 -5.27 37.78 +8.61 28.12 +1.85		
1942 Total 41.68 +12.91 31.22 +2.05 28.57 +2.30		
1941 Total 29.80 +1.03 36.35 +7.18 23.08 -3.19		

The month of March was decidedly warner and considerably wetter than usual. Some small grains were seeded during the latter part of the month. April and May was too dry for pastures, neadows and other crops in most of the counties. A hard freeze on May 11 and 12 resulted in severe damage to fruits and truck crops as well as to some small grain crops. Precipitation was below normal during July and above normal during September and October. Killing frosts occurred on September 29.

Table 2. Summary of Farm Inventories, 1946*

		fam		of 170 farms
Items	Jan. 1	Dec. 31	Jan. 1	Dec. 31
			222	
Size of farm (acres)				
Size of business (work units)**		• 2	634	
Productive livestock (total)	<u>.</u> .		\$4399	\$4841
Dairy and dual purpose bows			1380	1495
Other dairy & dual purpose cattle		-	879	864
The state (in all fined and)			429	476
Beef cattle (incl.feeders)	 		1090	1402
Hogs			-	207
Sheep (including feeders)		<u></u>	198	
Poultry (including turkeys)			423	397
Horses			223	182
Crop, seed, and feed	······································	<u></u>	3028	14108
Mach. & equipment (total)			3281	3439
Power mach. (farm share)		****	1003	1046
Crop & general mach. (farm share)	and the second s	,	1630	1765
Livestock equipment & supplies			648	628
Buildings, fendes, etc.		-	7513	7580
Land			9723	9723
	5 %		007 (7	00077
Total farm capital		Specification or security and the	28167	29873
	and the second second			
		protibable farms	f	profitable
Items			f	-
<u>and and the second sec</u>	Jan. 1	farms	Jan. 1	a.rms
Size of farm (acres)	Jan. 1	farms	Jan. 1	a.rms
Size of farm (acres)	Jan. 1	farms	Jan. 1	a.rms
Size of farm (acres) Size of business (work units)**	Jan. 1 285 770	farms Dec. 31	Jan. 1	Dec. 31
Size of farm (acres) Size of business (work units)** Productive livestock (total)	Jan. 1 285 770 \$6332	farms Dec. 31 \$673 ¹ 4	f. Jan. 1 178 492 \$3246	a.rms
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy & dual purpose cows	Jan. 1 285 770 \$6332 1605	farms Dec. 31 \$673 ¹⁴ 17 ⁴¹⁴	f. Jan. 1 178 492 \$3246 1148	Dec. 31
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy & dual purpose cows Other dairy & dual purpose cattle	Jan. 1 285 770 \$6332 1605 1110	\$673 ¹ 4 17 ¹ 44 10 ¹ 14	f. Jan. 1 178 492 \$3246 1148 717	\$3560 1294 841
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy & dual purpose cows Other dairy & dual purpose cattle Beef cattle (incl.feeders)	Jan. 1 285 770 \$6332 1605 1110 814	\$673 ¹ 4 17 ¹ 4 ¹ 4 10 ¹ 4 ¹ 4 837	f. Jan. 1 178 492 \$3246 1148 717 282	\$3560 1294 841 222
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy & dual purpose cows Other dairy & dual purpose cattle Beef cattle (incl.feeders) Hogs	Jan. 1 285 770 \$6332 1605 1110 814 1745	\$673 ⁴ 17 ⁴⁴ 10 ⁴⁴ 837 21 ⁴⁹	f. Jan. 1 178 492 \$3246 1148 717 282 620	\$3560 1294 841 222 733
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy & dual purpose cows Other dairy & dual purpose cattle Beef cattle (incl.feeders) Hogs Sheep (including feeders)	Jan. 1 285 770 \$6332 1605 1110 814 1745 514	\$673 ¹⁴ 17 ¹⁴ 10 ¹⁴ 837 21 ¹⁴ 9	f. Jan. 1 178 492 \$3246 1148 717 282 620 102	\$3560 1294 841 222 733 118
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy & dual purpose cows Other dairy & dual purpose cattle Beef cattle (incl.feeders) Hogs Sheep (including feeders) Poultry (including turkeys)	Jan. 1 285 770 \$6332 1605 1110 814 1745 514 544	\$673 ¹⁴ 17 ¹⁴ 10 ¹⁴ 837 21 ¹⁴ 9 1 ¹⁴ 7 513	\$3246 1148 717 282 620 102 377	\$3560 1294 841 222 733 118 352
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy & dual purpose cows Other dairy & dual purpose cattle Beef cattle (incl.feeders) Hogs Sheep (including feeders) Poultry (including turkeys) Horses	Jan. 1 285 770 \$6332 1605 1110 814 1745 514 544 241	\$673 ¹⁴ 17 ¹⁴ 10 ¹⁴ 837 21 ¹⁴ 9 11 ¹⁴ 7 513 18 ¹⁴	\$3246 1148 717 282 620 102 377 206	\$3560 1294 841 222 733 118 352 171
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy & dual purpose cows Other dairy & dual purpose cattle Beef cattle (incl.feeders) Hogs Sheep (including feeders) Poultry (including turkeys) Horses Crop, seed, and feed	Jan. 1 285 770 \$6332 1605 1110 814 1745 514 544 241 4339	\$673 ⁴ 17 ⁴⁴ 10 ⁴⁴ 837 21 ⁴⁹ 447 513 18 ⁴ 6439	\$3246 1148 717 282 620 102 377 206 2390	\$3560 1294 841 222 733 118 352 171 2873
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy & dual purpose cows Other dairy & dual purpose cattle Beef cattle (incl.feeders) Hogs Sheep (including feeders) Poultry (including turkeys) Horses Crop, seed, and feed Hach. & equipment (total)	Jan. 1 285 770 \$6332 1605 1110 814 1745 514 544 241 4339 4555	\$673 ⁴ 17 ⁴⁴ 10 ⁴⁴ 837 21 ⁴⁹ 447 513 184 6439 4924	\$3246 1148 717 282 620 102 377 206 2390 2233	\$3560 1294 841 222 733 118 352 171 2873 2223
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy & dual purpose cows Other dairy & dual purpose cattle Beef cattle (incl.feeders) Hogs Sheep (including feeders) Poultry (including turkeys) Horses Crop, seed, and feed Mach. & equipment (total) Power mach. (farm share)	Jan. 1 285 770 \$6332 1605 1110 814 1745 514 544 241 4339 4555 1415	\$673 ⁴ 17 ⁴⁴ 10 ⁴⁴ 837 21 ⁴⁹ 4447 513 18 ⁴ 6439 4924 1495	\$3246 1148 717 282 620 102 377 206 2390 2233 639	\$3560 1294 841 222 733 118 352 171 2873 2223 620
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy & dual purpose cows Other dairy & dual purpose cattle Beef cattle (incl.feeders) Hogs Sheep (including feeders) Poultry (including turkeys) Horses Crop, seed, and feed Mach. & equipment (total) Power mach. (farm share) Crop & general mach.	Jan. 1 285 770 \$6332 1605 1110 814 1745 514 544 241 4339 4555 1415 2333	\$673 ⁴ 17 ⁴⁴ 10 ⁴⁴ 837 21 ⁴⁹ 447 513 18 ⁴ 6439 4924 1 ⁴ 95 2650	\$3246 1148 717 282 620 102 377 206 2390 2233 639 1075	\$3560 1294 841 222 733 118 352 171 2873 2223 620 1092
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy & dual purpose cows Other dairy & dual purpose cattle Beef cattle (incl.feeders) Hogs Sheep (including feeders) Poultry (including turkeys) Horses Crop, seed, and feed Mach. & equipment (total) Power mach. (farm share) Crop & general mach. Livestock equipment & supplies	Jan. 1 285 770 \$6332 1605 1110 814 1745 514 544 241 4339 4555 1415 2333 807	\$6734 1744 1044 837 2149 447 513 184 6439 4924 1495 2650 779	\$3246 1148 717 282 620 102 377 206 2390 2233 639 1075 519	\$3560 1294 841 222 733 118 352 171 2873 2223 620 1092 511
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy & dual purpose cows Other dairy & dual purpose cattle Beef cattle (incl.feeders) Hogs Sheep (including feeders) Poultry (including turkeys) Horses Crop, seed, and feed Mach. & equipment (total) Power mach. (farm share) Crop & general mach. Livestock equipment & supplies Buildings, fences, etc.	Jan. 1 285 770 \$6332 1605 1110 814 1745 514 544 241 4339 4555 1415 2333 807 8316	\$6734 1744 1044 837 2149 447 513 184 6439 4924 1495 2650 779 8337	\$3246 1148 717 282 620 102 377 206 2390 2233 639 1075 519 6398	\$3560 1294 841 222 733 118 352 171 2873 2223 620 1092 511 6336
Other dairy & dual purpose cattle Beef cattle (incl.feeders) Hogs Sheep (including feeders) Poultry (including turkeys) Horses Crop, seed, and feed Mach. & equipment (total) Power mach. (farm share) Crop & general mach.	Jan. 1 285 770 \$6332 1605 1110 814 1745 514 544 241 4339 4555 1415 2333 807	\$6734 1744 1044 837 2149 447 513 184 6439 4924 1495 2650 779	\$3246 1148 717 282 620 102 377 206 2390 2233 639 1075 519	\$3560 1294 841 222 733 118 352 171 2873 2223 620 1092 511

^{*}For the purpose of comparison, all the data shown in this report with the exception of Tables 5 and 6 are presented on a full-owner basis. The assets, expenses and receipts of the landlord were included in the records from rented farms.

^{**}See page 24 for an explanation of "work units".

Table 3. Summary of Farm Earnings (Cash Statement), 1946

Items	Your farm	Average of 170 farms	3 ¹⁴ most profitable farms	34 least profitable farms
FARM EXPENSES	*****			
Dairy and dual-purpose cows bought Other dairy & dual-pur.cattle bot. Beef cattle bot. (incl.feeders) Hogs bought Sheep bought (including feeders) Poultry bought (including turkeys) Horses bought Misc.livestock expenses		\$ 78 130 125 158 86 195	\$ 95 115 252 121 132 187 17	141 209 4 95 41 161 23
Misc. crop expenses Feed bought Custom work hired Mech.pow.mach.(farm share)(new) Mech.pow.mach.(farm share)(upkp.)		198 551 1920 363 297	264 761 2235 355 446	156 442 1435 378 142
Mech.pow.(farm share)(gas,oil,etc.) Crop and general mach.(flew) Crop and general mach.(upkeep) Livestock equipment (new) Livestock equipment (upkeep)		274 564 447 167	369 722 715 199 82	199 413 227 138 80
Buildings & fencing (new) Buildings & fencing (upkeep) Hired labor Taxes		90 431 277 740 337	89 421 261 968 431	71 228 299 477 290
General farm and insurance (1) Total farm purchases (2) Decrease in farm capital (3) Board furnished hired labor		126 \$7648 147	151 \$9388 - 191	114 \$5763 - 89
(4) Interest on farm capital (5) Unpaid family labor (6) Total farm.exp.(Sum of(1)to(5) FARM RECEIPTS		1451 506 \$9752	1942 735 \$12256	1111 536 \$7499
Dairy and dual-purpose cows Dairy products Other dairy & dual-purpose cattle Beef cattle (including feeders) Hogs Sheep and wool (including feeders) Poultry (including turkeys) Eggs		5144 4192 571 405 2863 265 954	\$ 841 5034 821 773 5099 636 1434	8 381 2888 435 235 1285 146 739
Horses Corn Small grain Other crops Machinery & equip. sold Agricultural adjustment payments		1172 20 207 372 705 229 67	1275 21 422 650 1131 339 74	1018 21 31 220 715 94 48
Income from work off the farm Misc. (7)Total farm sales (8)Increase in farm capital (9)Family living from the farm (10)Total farm receipts(7)+(8)+(9) (6)Total farm expenses (11)Operator's labor earn.(10)-(6)		281 89 12936 1706 700 15342 9752 5590	292 73 \$18915 2835 800 \$22550 12256 10294	160 41 \$8457 690 624 \$9771 7499 2272

Table 4. Surmary of Farm Earnings (Enterprise Statement) 1946*

Thomas	Your	Average of 170 farms	34 most profitable	34 least profitable farms
Items	farm	iarms	farms	iarms
EXPENSES AND NET DECREASES Total power Horses Tractor Truck Auto (farm share) Gas engine (farm share) Elec.plant or current (farm share) Hired power Crop and general machinery Livestock equipment Buildings, fencing and tiling Misc. productive livestock expense Labor Real estate taxes Personal property tax Insurance General farm Interest on farm capital		\$1246 165 440 131 226 4 102 178 397 179 521 182 1511 281 56 47 79 1451	\$1512 199 573 205 241 3 122 169 463 194 521 262 2020 362 69 75 76 1942	\$1017 150 315 78 224 12 70 168 394 149 493 155 1224 243 47 33 81 1111
(1) Total expenses & net decreases		5950	7496	4947
All productive livestock Dairy and dual purpose cows Other dairy & dual pur. cattle Beef breeding herd Feeder cattle Hogs Sheep - farm flock Sheep - feeders Turkeys Chickens Crops, seed and feed Income from labor off the farm Agricultural conservation payments Niscellaneous		11253 4713 882 225 136 3097 160 33 526 1481 -110 168 67	16131 5850 1216 175 364 5486 385 51 855 1749 1322 119 74	73 ⁴ 8 3288 72 ⁴ 18 ⁴ 3 1367 121 - 458 1203 -432 128 48 127
(2) Total returns & net increases		11540	17790	7219
(1) Total expenses & res decreases	Maritanganda dayan dani k	5950	7496	4947
(3) Oper. labor earnings (2) - (1)	-	5590	10294	2272

^{*}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 4.

Table 5. Net Worth Statement for Those Farmers Who Kept a Complete Record of All Assets and Liabilities, 1946 (Operator's Share)

			ur Parm		the Own	
		Jan. i	Doc. 3	I	e and	Dou <u>.3</u> 1
Total acres in farm	S 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			-	189.0	
Owned	•	Million and and Warrish Layur Super-America Specimal			139.0	and a second
Rented	s =1,d	And the second s	•			
Cotal farm capital		***************************************			\$23546	\$25317
Accounts receivable			***************************************		276	319
Stocks and bonds	9 2 t = ₩		And the same of th		2874	3031
Life insurance			Manager company of the special property of the special		1308	150g
Outside real estate	· -	-	-		146	401
Other outside investments					1:21	- 586
Total outside investments			*******		4619	5526
Cash on hand and in bank	· -				1130	1900
Other household & personal asset	- and a sec	Problem of the state of the sta	appears to Champion of the Assess of		92.0	
Total cash, household & personal a			-		-	1996
POTAL ASSETS	188608	······································			2100	.2896
Federal Land Bank Nortgage				 .	30671	3 ¹ 1058
_ 			*		604	373
Other mortg. on land operated					3447	3 ⁴ 36
Mortgages on other real estate					-	177
Production Credit Association						36
Other chattel mortgages	6 ·				, 72	. 94
Notes payable		***************************************			546	499
Accounts payable	. •				166	191
OTAL LIABILITIES	2.				4835	4806
Farmer's net worth				,	25836	2 9252
Fain in net worth				-	4.	+341.6
			:			
A		***************************************	·OWALSES* -			ente <i>re*</i> *
7.5		Jan. 1	_ Dec. 31	· · · · · · · · · · · · · · · · · · ·	Jan. 1	Leo. 3
lotal acres in farm		262.0			193.8	-
Owned		157.5			• ••	
Rented	,	104.5	4		193.8	
lotal farm capital		\$22643	\$26173		\$6789	\$ 7 970
Accounts receivable		231	172		132	51/7
Stocks and bonds		15 19	1483		1256	1 459
Life insurance		1 68	182	*	427	50 x
Outside real estate		1 579	1684		678	678
Other outside investments		745	930	25 3	158	· 181
lotal outside investments		4011	4279		2519	2 869
Cash on hand and in bank		~~ 668	1260		1034	1502
Other household & personal asse	ts	859	8 7 6		935	1016
Potal cash, household & personal	assets	1527	2136		1969	2518
FOTAL ASSETS		28/112	32760		11409	13601
Federal Land Bank Mortgage		1443	1204			
Other mortg. on land operated		2539	2275			
Mortgages on other real estate					171	171
Production Credit Association		237	262		7.17	171
Other chattel mortgages			470		- 107	150
Notes payable		339			197	152
	• `	438	627		1110	838
		197	187		251	134
Accounts payable						
POTAL LIABILITIES		5193	5025	4	1729	1295
FOTAL LIABILITIES Farmer's net worth				٠, ١		

^{*10} rented for cash, 2 cash and crop share, 6 crop share and 1 livestock share.
**8 rented for cash, 4 cash and crop share and 11 livestock share.

Table 6. Summary of Farm Earnings by Tenure, 1916 (Operator's Share)

	Your farm	Owner's	19 part- owners	23 renters
FARI EXPENSES	TSTIII	Owners	Owners	rements
Dairy and dual purpose cows bot:		\$ 1 3	\$ 1 83	\$ 73
Other dairy & dual pur.cattle bot.		116	2 69	\$ 7 3 89
Beef cattle bot. (including feeders)		13	14	÷,
Hogs bot.		154	185	126
Sheep bot. (including feeders)		18	é	46
Poultry bot. (including turkeys)		191	1,35	215
Horses bot.		9	13	12
Misc. livestock expenses		168	1)+8	129
Misc. crop expenses		71,110	675	329
Feed bot.	******	1674	1410	1 655
Custom work hired	Carried Control of Con	358	471	256
Mech. power mach. (farm share) (new)	-	177	431	215
Mech.power mach. (farm share) (upkeep)		256	378	181
Mech. power (farm share) (gas, il, etc.)	Outspans - to product -	504	607	.366
Crop and general mach. (new)		252	523	274
Crop and general mach. (upkeep)		146	220	142
Livestock equipment (new)		99	48	94
Livestock equipment (upkeep		82	60	116
Land, buildings & fencing (new)		916	1561	140
Buildings and fencing (upkeep)		286	262	, <u>5</u> 6
Hired labor		583	1305	1111 0
Taxes (real estate & pers.property)		268	232	45
General farm and insurance	-	156	111	80
Cash rent			393	609
Interest paid		175	202	56
(1) Total farm purchases (2) Decrease in farm capital	<u> </u>	\$7024	\$9834	\$ 5 7 ⁴⁴
		7.20	75 175	776
(3) Board furnished hired labor (4) Interest on farm capital		129 1049	175 1018	116
(5) Unpaid family labor		452	317	313
(6) Total farm exp. (Sum of (1) to (5)	5	इ ह 654	5113 4 4	270 \$6443
FARM RECEIPTS		φυσ <i>γ</i> (١٨رست	ΨΟΤΤΟ
Dairy and dual purpose cows	•	\$ 434	\$ 514	\$ 276
Dairy products		3911	3922	3041
Other dairy and dual purpose cattle	+	558	505	337
Beef cattle (including feeders)		177	263	188
Hogs		2521	2308	1839
Sheep and wool (including feeders)		99	g4	94
Poultry (including turkeys)		313	360	978
Eggs		1181	917	1099
Horses		. 16	22	14
Com		169	194	5 ⁾ 4
Small grain		262	3,86	181
Other crops		1147	1647	234
Machinery & equipment sold		138	279	103
Agricultural adjustment payments		86	, 67	46
Income from work off the farm		363	110/1	170
Misc.	****	52	111	18
(7) Total farm sales	\$	\$11227	\$11983	\$8672
(8) Increase in farm capital	**************************************	1671	3530	1181
(9) Family living from the farm	6	681	624	611
(10) Total farm rec. (7) + (8) + (9)	<u> </u>	\$13579	\$16137	\$10464
(6) Total farm expenses		8654	11344	6443
(11) Operator's labor earn. (10) - (6) (12) Ret. cap.& family lab.(4)+(5)+(11)	*****	4925 6426	4793 6128	402 1 4604
- () read colloca ramaral reportable (3)4(7)1		U740	0750	TOUT

Table 7. Household and Personal Expenses and Receipts for Those Farms Which Kept Complete Accounts of These Expenses, 1946

Items				Your farm	Average of 95 farms	19 most profit- able farms	
Number of person	ns in fa	mily		**************************************	4.0	4.6	4.1
Number of adult	equival	ents in :	family		2.5	3.5	3.2
Number of other					•6	•8	• 3
		-		**************************************			
ESPENSES			** ** * * * * * * * * * * * * * * * *				
Food and meals	bought			Ş	\$ 536	\$ 594	\$ 539
Operating and s		• :	9.48		191	226	198
Clothing and cle		aterials	4 (4		259	300	23 ¹ 4
Personal care, p	ersonal	spending			70	111	61
Furnishings and					178	247	107
Education, recr	eation a	nd develo	opment		132	266	89
Medical care an	d health	insuran	ce	4	155	178	132
Church, welfare	, gifts		# 1 ** 		199	303	165
Personal share	of auto	expense			103	118	80
Household share	of elec	t. & gas	. eng.exp.		46	52	36
H.H. & pers.shr	of new	auto, gas	eg.&mot.bo	t.	. 9	-	
Total					1878	2395	1641
State and feder	al incom	e tax	1		280	392	7 5
Insurance		w.		. \$	\$ 154	\$ 184	\$ 112
Investments					425	608	51
Total househol	d & pers	onal cas	h expenses		2737	3579	1879
Food furnished	by the f	arm			477	5 17	447
Fuel furnished	by the f	arm		- , 2 - up ,	18	5/1	17
House rental				**************************************	190	217	164
Total household	and per	sonal ex	penses	\$	\$3422	\$4337	<u>\$2507</u>
•			- · · · · · · · · · · · · · · · · · · ·		•		
RECEIPTS							
Outside investm	ents				\$ 169	\$ 73	\$ 77
Household and p			4 - 4	-	112	67	66

^{*}Hired help or others boarded

No. of persons (Fam.) adult equiv.(others*) 3.0 3.3 2.9 Wholemilk 1370 qts.1596 1209 \$ \$104.80 \$118.70 \$99.21 Skim milk 119 qts. 130 152 1.36 2.70 2.24 Cream 106 pts. 116 151 28.18 33.15 39.95 Farm made butter 1 1b 2 .54 - 1.32 Eggs 212 doz. 229 177 72.13 77.78 60.03 Cattle 447 lbs. 539 342 54.62 68.91 43.56 Hogs 483 lbs. 627 396 81.10 104.52 64.45 Sheep 3 lbs 4 .43 - 78 Poultry 129 lbs. 137 121 31.85 34.58 29.44 Potatoes 19 bu. 31 17 21.59 33.68 20.14 Vegetables & fruits Farm fuel 3 cds. 5 3 22.29 31.88 17.00 Rental v1. of house 213.40 212.09 181.98	Items		verage 70	34 most	From the 34 least profitable farms		34 most profit- able farms	34 least profit- able farms
Skim milk 119 qts. 130 152 1.36 2.70 2.24 Cream 106 pts. 116 151 28.18 33.15 39.95 Farm made butter 1 lb 2 .54 - 1.32 Eggs 212 doz. 229 177 72.13 77.78 60.03 Cattle 447 lbs. 539 342 54.62 68.91 43.56 Hogs 483 lbs. 627 395 81.10 104.52 64.45 Sheep 3 lbs 4 .43 78 Poultry 129 lbs. 137 121 31.85 34.58 29.44 Potatoes 19 bu. 31 17 21.59 33.68 20.14 Vegetables & fruits 67.48 30.71 63.72 Farm fuel 3 cds. 5 3 22.29 31.88 17.00 Rental vl. of house 213.40 212.09 181.98		-						
Misc	Skim milk Cream Farm made butter Eggs Cattle Hogs Sheep Poultry Potatoes Vegetables & fruits Farm fuel		119 qts. 106 pts. 1 lb. 212 doz. 447 lbs. 483 lbs. 3 lbs. 129 lbs.	130 116 - 229 539 627 - 137 31	152 151 2 177 342 396 4 121	1.36 28.18 .54 72.13 54.62 81.10 .43 31.85 21.59 67.48 22.29	2.70 33.15 77.78 68.91 104.52 34.58 33.68 80.71 31.88 212.09	2.24 39.95 1.32 60.03 43.56 64.45 .78 29.44 20.14 63.72 17.00

CUMULATIVE EFFECT OF EXCELLING IN A NUMBER OF HANAGEMENT FACTORS

\$700.13 \$799.58 \$623.82

Studies of earlings of farmers in this area show that there are seven major management factors causing variations in earnings among farmers within a given year. These seven factors are (1) crop yields, (2) choice of crops, (3) returns from livestock, (4) amount of livestock, (5) size of business, (6) work accomplishment per worker, and (7) control over expenses. The combined or cumulative influence of these seven management factors on earnings is shown in Table 9. The farmer's earnings are determined to a considerable extent by his accomplishments in these seven factors.

Table 9. Relation of Operator's Labor Earnings to the Number of Factors in which the Farmer Excels

No. of factors in which farmer excels	No. of farms	The length of the shaded Your is in proportion to the a farm operator's labor earnings	verage labor
None or 1	14	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	\$ 2 99 5
2 or 3	78	XXXXXXXXXXXXXXXXXX	4890
4 or 5	66	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	xxxxxx 6522
6 or 7	12	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXX 8040

The array in Table 9 indicates that it will be worth while for each cooperator to study carefully his ranking on pages 10 and 11, and learn his standing in respect to each of the above factors and the elements of strength and weakness in his farm business.

	sures used in chart page 11	Your farm	Management Average of 170 farms	34 most profit- able farms	1946 34 least profit- able farms
Ope	rator's Labor Earnings	\$	\$559 0	\$10294	\$2272
(1)	Crop yields*		100	112	91
(2)	% of tillable land in high ret.crops	**	50.3	52.1	45.9
(3)	Ret. for \$100 feed to prod.livestock	**	1.00	107	91
(4)	Prod.livestock units per 100 acres***	*	22•8	23.6	21.1
(5)	Size of business - work units	-	634.	770	492
(6)	Work units per worker		317	320	259
(7)	Pow., mack., equip.,&bldg. exp.per work unit	\$	\$3.81	\$3•5 ¹ 4	\$4.26
(3)	Index of return for \$100 feed from - Dairy cattle (see pages 16 & 17) Dual purpose cattle (see pages 18		100	105	89
(3)	Dairy cattle (see pages 16 & 17)		100 100 100 100 100 100	105 100 82 93 110 109 137 106	89 113 96 - 80 76 91 92
(5)	Dairy cattle (see pages 16 & 17) Dual purpose cattle (see pages 18 & 19) Beef breeding herd (see page 20) Feeder cattle (see page 20) Hogs (see page 15) Native sheep (see page 23) Turkeys (see page 22)		100 100 100 100 100	100 82 93 110 109	113 96 - 80 76 91
(5)	Dairy cattle (see pages 16 & 17) Dual purpose cattle (see pages 18 & 19) Beef breeding herd (see page 20) Feeder cattle (see page 20) Hogs (see page 15) Native sheep (see page 23) Turkeys (see page 22) Chickens (see page 21) Work units on crops Work units on productive livestock		100 100 100 100 100 100 100	100 82 93 110 109 137 106 234 512	113 96 - 80 76 91 92 136 330

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

**Crops are marked on page 12 as (A), (B), (C), and (D), All of the acres in

(A) crops, one-half of acres in (B) crops, and one-fourth of acres in (C)

crops are used in calculating per cent of tillable land in high return crops.

***An index weighted by the animal units of livestock.

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

-11Thermometer Chart

Using your figures from page 10, locate your standing with respect to the various measures of farm organization and management efficiency. The averages for the 170 farms included in this summary are located between the dotted lines across the center of this page.

Oper. labor earn- ings		Crop yields	Hig ret cro	urn	Return from g ductives	oro- ve	Pr. unit per 100	,	Work units	1 <u>1</u>	Vork mits per vorker	eq.,	,mach., & bldg. per unit
\$11200	140		74.0	1	40 =	43.0)	1030		480	\$	1.00	
10500	1 35		71.0	1	35 =	40.5	5 = -	980		1:60		1.35	
9800	130		68.0	1	30	38.0		930		<i>j</i> † <i>j</i> †O		1.70	
9100	125		65.0	1	25 =	35-5		ଞ୍ଚ		420		2.05	
8,400	120		62.0	1	20	33.0		830		7100		2.40	
7700	115		59.0	1	15	30.5	5 = -	780		380		2.75	
7000	110		56.0	1	10	28.0) = -	730		360	=	3.10	**
6300 =	105		53.0	1	05 [25.5	; <u> </u>	680		340		3• ⁴ 5	
5600	100		50.0	1	00	23.0)	630		320		3.80	
14900	95		47.0		95	20.5	; <u> </u>	580		300		4.15	
4200	90		44.0		90	18.0)	530		280		4.50	
3500	85		41.0		85 =	15.5	; <u> </u>	480		260		4,85	
2800	80		38.0		೮೦ 🔄	13.0) =	430		540		5.20	
2100	75		35.0		75 =	10.5	; =-	380		220		5•55	
1400	70		32.0		70 =	8.0) E	330		200		5.90	
700 =	65		29.0		65	5•5	; =	280		180		6.25	
			E		E) }	E	}	6		5		

Table 11. Distribution of Acres in Farm, 1946

Crop: (A) (B) (C) and (D) refer		No.	OT TOT	es in Fai	34 most	34 Least	Acres
to ranking used in calculating		growin	1g (Average	profit-	profit-	per fam
% of tillable land in High		this	Your	of 170	able	able	growing
Return Crops (see page *.0)		crop	farm	farms	farms	farms	crop
Canning peas	(A)	16		1.6	2.8	.8	17.7
Flax	(0)			2.2	5.6	1.1	13.8
Barley	(10)	27 44		3.4	5.6	1.3	13.0
Oats and barley	(D)	18		1. 9	4.9	•8	18.0
Wheat	(D)	82		5.1	7•9	3 • 3	10.6
Oats and wheat	(D)	32		3.1	3.4	1.3	16.4
Oats	(D)	159		33.2	40.0	30.0	35•5
Soybears for grain	(D)	54		71.8	8.6	1.6	15.2
Rye, millet and buckwheat	(D)	11		•7	•2	1.5	10.6
Total small grain and peas		168		56.0	79.0	41.7	56.7
Sugar beets, hybrid seed corn,	**************************************		, 		£	*	witge-ners conservation days distributed
potatoes and truck crops	(A)	65	-	3.7	5.8	3.1	、9 ∙7
Corn grain.	(A)	168	-	42.8	59.3	31.1	43.3
Com silage	(B)	149	***************************************	10.8	11.6	9•3	12.4
Sweet corn	(B)	15		1.2	1.4	1.1	13.7
Corn fodder	(D)	25	atory in the complete contact or the contact	•9	•8	1.3	6.1
Total cultivated crops		170	ay ingganaga cany nahiringan Massiliyah d	59•4	. 78.9	45.9	59.4
Alfalfa hay	(A)	128		15.8	21.5	10.6	21.0
Red clover hay	(B)	39	we-effect our establishment	3•3	4.9	3·8	14•H
Soybean hay	(0)	27		1.1	•9	•6	6.9
Mixed legumes & non-legumes	(C)	57		6.0	6.1	6.4	17.8
Legumes for seed	(c)	11		•4	•9		6.4
Timothy and/or brome hay & seed	(D)	32	************************	2.4	2.1	3 • 9	12.8
Other annual hay	(D)	. 2		.1	***	.1	10.5
Total tillable land in hay		169		20.7	76)	مح از	20.7
Alfalfa and mixtures incl-alfalf	ο (Λ)			29.1	36.4	25.4	29.3
Sweet clover pasture	(B)	11		5.5 1.2	7.5	5.1	13.9
Other legumes and mixtures	(G)			5.0	1.2 6.6	. 1	19.0
Sudan grass or rape pasture	(c)	39 34		1.2	2.0	2.1 .6	21.6
Other tillable pasture	(D)	67	***************************************	6.7	9•3	9.2	5•9 17•0
	(/				•	9•⊑	71.0
Total tillable land in pastur		142		19.6	26.6	17.1	23.4
Tillable land not cropped	(D)			•9	•2	1.2	8.3
Total tillable land		170		165.0	-221.1	131.3	165.0
Phalaris hay (non-tillable)		5 56 134		1.2	1.2	-	39.3
Wild hay (non-tillable)		56	-	3.4	2.6	2.2	10.3
Non-tillable pasture		134		29.0	26.9	26.1	36.8
Timber (not pastured)		71	*	6.5	13.0	4.3	15.7
Roads and waste				10.4	10.0	9.4	
Farmstead			-	6.7	10.0	5.0	
•		• .			••	•	
Total acres in farm		•		222.2	.284.8	178.3	
Per cent land tillable		•		74.3	77.6	73.6	
Per cent tillable land in high r	et.	crops		50.3	52.1	45.9	
					errore e man e maio ndi panda quale gibili panda e casa		

Table 12. Crop Yields Per Acre, 1946

Crop	Your farm	Average 170 farms	34 most profitable farms	34 least profitable farms
Canning peas, value above seed cost Flax, bu. Barley, bu. Oats and barley, bu.	<u> </u>	\$60.8 ¹ 12.9 31.0 42.2	\$68.85 15.4 31.5 45.2	\$19.78 9.9 33.0 56.5
Wheat, bu. Oats and wheat, bu. Oats, bu. Soybeans for grain, bu.		21.1 38.4 43.1 16.4	20.9 40.7 48.2 19.3	20.7 40.1 39.1 14.8
Rye, bu. Buckwheat, bu.		15.9 12.0	22.0	11.0
Corn, grain, bu. Corn and cane silage, tons Sweet corn, tons Corn and cane fodder, tons		50.7 8.5 2.9 2.5	58•3 9•6 3•1 3•6	43.5 7.2 2.5 2.4
Alfalfa hay, tons Red clover hay, tons Soybean hay, tons Mixed legume & non-legume hay, tons Legumes for seed, lbs.		2.2 2.0 1.5 1.6 93.	2.2 2.0 1.4 1.8 106.	2.1 2.5 1.1 1.7
Fimothy and/or brome hay, tons Fimothy seed, lbs. Other annual hay, tons Phalaris hay or non-tillable land, tons Wild hay, tons		1.4 181. 1.0 1.0	1.8 - .5 .6	1.4 - - - .9

Table 13. Average Price of Feeds, 1946

Item	Value	Item	Value
Ear corn, per bu.	\$1.15	Alfalfa hay, per ton	\$15.50
Oats, per bu.		Red or alsike clov. hay, per ton	13.10
Barley, per bu.		Soybean hay, per ton	13.10
Wheat, per bu.		Timothy, per ton	9,30
Rye, per bu.		Sweet clover, per ton	9.00
Soybeans, per bu.		Wild hay, per ton	7.75
Bran, per cwt.	2.70	Corn fodder, per ton	7.00
Linseed oilmeal, per cwt.	3.40	Corn silage, per ton	5.10
Soybean oilmeal, per cwt.		Pasture, per mo. per an. unit	1.10
Tankage, per cwt.		Skim milk, per cwt.	•30

Table 14. Summary of Amount of Livestock, 1946

ş .	rable 14.	Summary O.	I Amount	oi Livesto		711 30	
			37.0.44.44	Average	34 most	34 least	
+ 1 and the state of the state			Your	of 170		profitable	
Items			farm	farms	farms	farms	
No. of horses				2.8	3•2	2.6	
No. of colts		• •	·	• 3	. 3	.2	
No. of dairy & dual ;	purpose cow	/s		16.7	13.8	13.6	
Head of other dairy				17.4	20,4	15.3	
Head of cattle in be				3.8	3.5	2.4	
Pounds of feeder cat				528	1429	·	
•	<u>.</u>	• •	*************************************	2	# .		
Litters of pigs				9.1	15.2	5.2	
Pounds of hogs produc	ced	A STATE OF THE STA		15516	26920	7323	
Head of sheep (2 lam)				11.3	22.7	11.2	
No. of hens				240	260	203	

Total no. of prod. 1	vstk. anima	l units		42.0	55 . 4	31.6	
		**					
% of total that are:	••						
Dairy cows		,		39.4	35.0	40.2	
Other dairy catt	le		-	20.3	18.3	22.0	
Dual purpose cow		j <i>ili</i>		2.9	2.4 ,	4.0	
Other dual purpo				2.5	2.7	3.1"	
Beef breeding he				4.7	3•7	4.1	
Feeder cattle		•		1.9	3.5	_	
Hogs				16.í	21.3	12.9	
Sheep				3.9	5.6	4.3	
Turkeys				1.8	2.3	2.6	
Hens				6.5	5.2	6.8	
		4 1					

Table 15. Feed Costs for Horses and Misc. Power and Machinery Expense, 1946

Items		Your farm	Average of 160 farms*	31 most profitable farms*	30 least profitable farms*
Feed per horse, ** Lbs.: Grain Hay Fodder and stover			685 - 3491 - 306	864 3256 319	592 4126 332
Feed costs per horse: Grain Roughage Pasture TOTAL FEED COSTS		\$\frac{1}{5}\frac{1}{1}\frac{1}{5}\frac{1}{1}\frac{1}{5}\frac{1}{1}\frac{1}{5	814.82 21.05 5.80 \$41.67	\$18.76 18.13 5.30 \$42.19	\$13.04 23.79 5.71 342.54
Number of work horses Number of colts Crop acres per farm Tractor and horse exp. per			3.0 .4 - 149.1 .94.23	3.6 .4 198.1 \$4.31	2.9 .2 .115.2 .94.28
Crop & Gen. Mach. exp. per	crop acre	***	2.87	2.64	3,50

^{*} Ten farmers did not have horses. The crop acres and expenses per crop acre are averages for 170 farms.

^{**}Two colts equal one horse.

Table 16. Feed Costs an	d Returns	from Hogs, 1	946	· · · · · · · · · · · · · · · · · · ·
		Average	29 farms.	•
	and the second	of 146	highest in returns	
Items	Your	farms		above feed
	farm	Tarms	above reed	anove teem
Feed per cwt. hogs produced, lbs.:			~ ~	ran d
Corn		377	267	578
Small grain		141	117	187
Commercial feeds		<u>36</u>	<u>36</u> 420	<u> </u>
Total concentrates		554	420	797
Skim milk, buttermilk and whey		39	. 79	25 (25)
Feed cost per cwt. hogs produced:				
Concentrates	\$	\$12.46	\$9.61	\$17.55
Skim milk, buttermilk and whey	· · ·	.14	•15	.20
Pasture		17	.17	20
TOTAL FEED COST	<u>s</u>	\$12.77	\$9.93	\$17.95
		•		
Net increase in value per cwt.hogs pro	d.\$	\$19.81	\$21.77	\$18.92
	-		• ;	
RETURNS ABOVE FEED COST PER CWT. HOGS				
PROD.	\$	\$7.04	\$11.84	\$ •97
				4
RETURNS FOR \$100 OF FEED	Ş	\$166	\$225	\$ 109
Price received per cwt. hogs sold	\$	\$17.23	\$19.02	\$16.26
			~ ~	
No. of spring litters raised		7.0	8.0	5.7
No. of fall litters raised	·	3.6	3.3	1.4
Total no. of litters raised		10.6 ೮ . 0	11.3 8.1	7.1
No. of pigs born per litter			6.9	6•9 5•6
No. of pigs weaned per litter		6.5	0•7	0 و ر
Pounds of hogs produced		17850	18900	11955
Toures of Hogs brokeook	· · · · · · · · · · · · · · · · · · ·	21070	<u> </u>	.

Table 17. Factors of Cost and Returns from Dairy Cows, 1946

Items		Your farm	Average of 146 farms	29 farms highest in butterfat per cow	29 farms lowest in butterfat per cow
Pounds of butterfat per cow) · (266	35 1	179
Feeds per cow, lbs: Corn Small grain Commercial feeds			973 1069 398	1203 1476 63 ¹ 4	570 585 201
Legume hay Other hay Fodder and stover	**************************************		731 188	41)46 389 25 ¹ 4	3308 777 143
Total concentrates Total dry roughage Silage	- - 		2440 4219 7097	3313 4789 7532	1356 4228 7373
Total digestible nutrients* T.D.N. per lb. B.F. % T.D.N. that is protein			5110 19.2 13.8	618 ¹ 4 17.6 1 ¹ 4.5	4354 24.3 13.6
Feed cost per cow: Concentrates Roughages Pasture TOTAL FEED COSTS		\$	\$55.62 45.66 .5.71 \$106.99	\$77.9 ¹ 4 52.25 5.56 \$135.75	\$30.70 45.95 5.94 \$82.59
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		\$	\$250.30 8.78 14.02 12.44 \$285.54	7.9 ¹ 4 1 ¹ 4.31 -11.03	\$149.40 11.78 15.25 17.61 \$194.04
RETURNS ABOVE FEED COST PER COW		\$	\$178.55	\$236.27	\$111.45
RETURNS FOR \$100 OF FEED		\$	\$278.	\$285.	\$ 2 4 7.
Price rec.per 1b. B.F. sold As manufacturing cream Other	-		\$1.02 .80 1.05	\$1.03 .82 1.05	.96 .78 1.07
Feed cost per 1b. B.F. (cents)		the second	40.2	38.7	46.1
5 fall freshening		4-4-p-1-1-1-1	50.8	57.0	36.0
Number of cows**		 	18.0	20.3	14.8

^{*}Not including nutrients received from pasture.

^{***}All dairy cows which have at some time in the past freshened are included in the dairy here, 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 18. Feed Costs and Returns from Other Dairy Cattle, 1946

Items	Your farm	Average of 143 farms*	29 farms highest in butterfat per cow	27 farms lowest in butterfat per cow*
Feeds per head, lbs.: Concentrates Hay and fodder Silage Skim milk Whole milk		583 1635 2643 232 355	7 ⁴ 9 2052 2560 313 37 ⁴	461 1886 3361 336 286
TOTAL FEED COSTS PER HEAD	Ş	\$46.12	s54 . 57	\$44.52
Net inc. in value of other dairy cattle	·*	\$52.62	\$59.69	\$43.47
RETURNS ABOVE FEED COST PER HEAD	\$	\$6.50	\$5 .12	\$75
RETURNS FOR \$100 OF FEED	\$	_3117.	\$115.	§100.
Number of head of other dairy cattle	Experience of the same	18.0	18.7	17.9

Table 19. Feed Costs and Returns From All Dairy Cattle, 1946

Items	Your farm	Average of 146 , farms	29 farms highest in butterfat per cow	29 farms lowest in butterfat per cow
		**		and the state of t
Feeds per animal unit, lbs.: Concentrates Hay and fodder		1996 3839	2674 4447	1256 4027
Silage		6383	6608	7064
TOTAL FEED COSTS PER ANIMAL UNITS	\$	\$92.14	\$115.41	\$77.45
Value of produce per animal unit: Dairy products Net increase in val. of dairy	\$ cattle	\$173.3 ⁴	\$233.78 44.37	\$105.93 37.85
TOTAL VALUE PRODUCED	\$	\$213.94	\$278.15	\$143.78
RETURNS ABOVE FEED PEP ANIMAL UNI	r <u>\$</u>	\$121.80	\$162.74	6 66.33
RETURNS PER (\$100 OF FEED	<u>\$</u>	_ 239•	\$245.	\$ 1 99•
Animal units of dairy cattle		27.2	30.1	23.5

*Three farmers having both a dairy and a beef herd used a beef bull and included all the young stock in the beef herd.

-18-

Table 20. Factors of Cost and Return	Your farm	Average of 15 farms	7 farms highest in butterfat per cow	7 farms lowest in butterfat per cow
Pounds of butterfat per cow Feeds per cow, lbs.:		170	210	128
Corn Small grain Commercial feeds	Sandaning of Territory	578 463 155	678 502 217	537 434 66
Legume hay Other hay Fodder and stover		2560 788 435	2931 817 891	2271 806 42
Total concentrates Total dry roughage Silage	And the second s	1196 3783 5709	1397 4639 4339	1037 3119 6800
Total digestible nutrients* T.D.N. per 1b. B.F. 5 T.D.N. that is protein		369 ⁴ 21.7 12.7	3973 18.9 13.0	3486 27•2 12•1
Feed cost per cow: Concentrates Roughages Pasture TOTAL FEED COSTS	\$ 5	\$26.65 37.24 6.08 \$69.97	\$31.21 37.79 6.33 \$75.33	\$22.73 36.82 5.70 \$65.25
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		9.59 9.59 21.87 14.07 5180.55	\$166.83 12.14 24.87 7.60 \$211.44	\$98.62 7.58 20.82 20.55 147.57
RETURNS ABOVE FEED COS. PER COW	<u>ş</u> (110.58	\$136.11	\$82.32
RETURNS FOR \$100 OF FEED	\$ 5	273.	8 316 •	\$227.
Price received per 1b. B.F. sold** As manufacturing cream Other Feed cost per 1b. B.F. (cents)		\$.94 87 1.04 - 41.2	\$.9 ¹ 4 .80 1.05 35,8	\$.93 .91 1.03 50.9
% fall freshening		61	52	69
Number of cows	-	14.3	12.6	16.2

^{*}Not including nutrients received from pasture.
**Including dairy subsidy payments.

Table 21. Feed Costs and Returns from Other Dual Purpose Cattle, 1946

			Average		
Items		Your farm	of 15 farms	returns above fe	
	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TELIII	Tarms	audve 1e	ed above feed
Feeds per head, lbs.: Concentrates Hay and fodder Silage			450 1493 2079	539 1347 2508	257 1769 1430
Skim milk Whole milk			593 320	420 120	75 ¹ 4 562
TOTAL FEED COST PER HEAD		\$	\$39.19	\$34.80	\$42.80
Net increase in value	14 s	\$	\$49.97	\$59.64	\$39.15
RETURNS ABOVE FEED COST PER HEAD		\$	\$10.78	\$214.814	\$-3.65
RETURNS FOR \$100 OF FEED .		\$	\$137	\$171	\$92
Number of head	, u	teritira de construir de constr	24.3	25.2	22.8

Table 22.	Feed	Costs	and Returns	Trom 47	7 Dual	Dirmora	Cotta

			4 - 4 - 44		Average	7 farms highest in	7 farms 1 lowest in
Items				Your farm	of 15 farms	returns	
Pounds of but Feeds per ani			ter and the second seco		170	189	146
Concentrat Hay and fo Silage		tis turk	All South		1067 333 ¹ 4 4872	975 3665 4203	963 2984 5568
TOTAL FEED CO	STS PER ANI	PINU JAH	The second secon	\$	\$60.47	\$59.02	\$57. 50
A CONTRACTOR OF THE PROPERTY O		•	San	<u>S</u>	\$82.17 50.63 \$132.80	\$103.07 48.15 \$151.22	\$59.14 50.16 \$109.30
RETURNS ABOVE	FEED PER A	MIMAL UN	IIO	<u>\$</u>	\$ 72.33	\$ 92.20	\$ 51.80
RETURNS FOR	100 OF FEEI)		\$	\$229.	\$256.	\$190.
Animal units					26.9	23.4	30.6

Table 23. Feed Costs and Re-	turns Fro	om Beef Cat		
Items ,	Your farm	Average of all farms	Farms highest in returns above feed	Farms lowest in returns above feed
Beef breeding herd: no. of farms:		15	7	7
Feeds per animal unit, lbs.:				
Concentrates Legume hay Other hay Fodder and stover Silage Skim milk* Whole milk*		1126 1572 719 393 4178 51	818 1640 573 250 2995	1530 1439 771 520 5123 110
Feed cost per animal unit: Concentrates Roughages Pasture TOTAL FEED COSTS	\$ \$	\$25.10 25.54 5.68 \$56.32	\$18.06 22.10 5.72 \$45.88	\$34.25 27.46 5.44 \$67.15
Value of produce per animal unit: Dairy products Net increase in value of animals TOTAL VALUE PRODUCED	\$	\$7.26 77.90 \$85.16	\$2.58 91.66 \$94.24	\$5.52 71.24 \$76.76
RETURNS ABOVE FEED COST PER ANIMAL UNIT	\$	\$28.84	\$48.36	\$9.61
RETURNS FOR \$100 OF FEED	\$	\$163	\$212	\$116
Number of cows and herd bulls Number of animal units in the herd Lbs. beef produced	44-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4	15. ⁴ 28.9 13253	17.2 29.6 15332	12.4 26.1 10828
Theodon of the second		11	5	5
Feeder cattle: no. of farms:		L.4.	2	
Feeds per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay Other hay Fodder and stover		526 103 26 240 104 116	432 51 23 231 69	650 170 26 249 126 111
Total concentrates Total dry roughages Silage Food cost per out hoof produced:		655 460 1113	506 300 822	846 486 1339
Feed cost per cwt. beef produced: Concentrates Roughages Pasture TOTAL FEED COSTS Net increase in value of feeders	\$ \$ \$	\$13.79 5.11 .83 \$19.73 \$24.69	\$10.70 3.9 ¹⁴ 1.2 ¹⁴ \$15.88 \$26.5 ¹⁴	\$17.70 5.81 .54 \$24.05 \$23.08
RETURNS ABOVE FEED COST PER CWT.BEEF PROD. RETURNS FOR \$100 OF FEED Price recd. per cwt. beef sold in 1946 No. of animal units Pounds of beef produced	\$	4.96 \$134 \$15.53 22.7 8025	10.66 \$167 \$15.61 32.9 11416	97 \$96 \$15.56 15.1 5261

*One farmer had both dairy cows and beef cows and fed milk produced by the milking herd to beef calves.

Table 24. Feed Costs and Returns from Chickens, 1946

Table 24. B	eed Costs and	Returns 1	rom Chicke		
Items		Your farm	Average of 156 farms	31 farms highest in return above feed	return
Feed per hen, 1bs.: Grain Commercial feeds Total concentrates Skim milk and buttermilk	-		100 44 144 3	109 42 151	10 ¹ 4 5 ¹ 4 158 1
TOTAL FEED COST PER HEN	· · · · · · · · · · · · · · · · · · ·	3	\$4.11	\$4.28	\$4.55
Value of produce per hen: Eggs sold and used in hous Net increase in value of c TOTAL VALUE PRODUCED		3	\$5.06 1.10 \$6.16	\$6•22 2•05 \$8•27	\$4.08 .61 \$4.69
RETURNS ABOVE FEED COST PER H	en <u>{</u>	>	\$2.05	\$3.99	• 114
RETURNS FOR \$100 OF FEED	<u> </u>))	\$156	\$198	\$103
Price rec'd per doz. eggs sol Eggs laid per hen	d (cents)	naga an angana an an angan an	35•2 173	36.0 211	35.0 140
Ave. no. of hens on farm duri	ng the yr.		260	276	269
% of hens that are pullets % of death loss of hens	•		90 12 . 3	97 9•6	88 16 . 1
Number of chicks purchased Pounds of poultry produced			499 1490	538 2523	513 999

Table 25. Feed Costs and Returns for Turkeys, 1946

Items	Your farm	Average of 8 farms	4 farms highest in returns a ve feed	4 farms lowest in returns above feed
Feed per cwt. turkeys produced, lbs.: Grain Commercial feeds		383 229	385 215	381 243
Total concentrates Skim milk		612 6	600 5	62 ¹ 4
Feed cost per cwt. turkeys produced	\$ \$	19.93	\$19.00	\$20.87
Value of produce per cwt. turkeys prode Eggs and poults Net increases in turkeys TOTAL VALUE PRODUCED RETURNS ABOVE FEED COST PER CWT.	\$	\$2•13 27•65 29•78	\$3.04 30.49 \$33.53	\$1.22 24.82 \$26.04
TURKEYS PRODUCED	\$	\$9.85	\$14.53	\$5.17
RETURNS FOR \$100 FEED	. <u>\$</u>	\$15 ¹ 4	\$180	\$128
Price rec'd per 1b. turkey sold (cts.) No. of poults put on feed Price paid per poult purchased (cts)		32.7 2364 72.1	3 ⁴ •1 3336 7 ⁴ •6	31.3 1392 69.7
Weight per bird sold, lbs. % death loss		18.7 24.5	18.9 17.7	18,5 31.4
Pounds of turkeys produced		36049	52819	19278

Table 26. Feed Costs and Returns from a Farm Flock of Sheep, 1946

Table 26. Feed Costs and Retu	Your farm	Average of 42 farms	8 farms highest in returns above feed	8 farms lowest in returns above feed
Feeds per head, *lbs.: Concentrates Legume hay Other hay Fodder and stover Silage		76 143 73 20 151	141 127 16 46 139	72 186 153 14 265
Feed cost per head: Concentrates Roughages Pasture TOTAL FEED COSTS Value of produce per head:	\$	\$1.63 1.77 1.00 \$4.40	\$2.75 1.39 .91 \$5.05	\$1.60 2.72 .86 \$5.18
Wool Net increase in value of sheep TOTAL VALUE PRODUCED	\$ \$	\$2.99 9.93 \$12.92	\$3.35 16.88 \$20.23	\$2.72 4.46 \$7.18
RETURNS ABOVE FEED COST PER HEAD	\$	\$8.52	\$15.18	\$2.00
RETURNS FOR \$100 OF FEED	\$	\$362	\$5 ¹ ‡8	\$139
Price per cwt. of lambs sold Price per lb. wool sold (cts) Pounds of wool per sheep sheared	\$	\$18.28 45.9 8.3	\$20.81 46.1 9.1	\$17.24 46.0 8.3
Number of ewes kept for lambing % lamb crop** % death loss**		28 108 8•8	145 118 8• ¹ 4	20 107 16.5
Pounds of sheep produced		2572	6234	1208
No. of head of sheep*		44.2	67.6	37 • 4
		and the second		

^{*}Two lambs under six months of age considered as one head.

TOTAL RETURNS AND FEED COST FROM YOUR LIVESTOCK ENTERPRISES

The total return over feed costs for each class of livestock is shown in Table 27. This differs from the "return over feed" shown in the enterprise statement in that it is the total for each class of livestock instead of a return "per head" "per unit" or per "100 pounds". These data indicate the relative importance of different classes of livestock as a source of income and as a market for feed. The total return is the same as the returns and not increases shown on page 9. The return over feed is not a net return but rather the amount available from the gross income, after paying the feed bill, to cover the outlay for hired labor, power, equipment, taxes, insurance, interest, and veterinary bills and to provide a return for the use of family labor and capital.

^{**}Lambs which die during month of birth are not included.

Table 27. Total Feed Costs and Returns From Your Livestock Enterprises, 1946

Table 27. Total B	reed Costs	and Retu	irns From	Your Livest	OCK E	nterprises,	1946
		Dairy Cows	or dual p	ourpose cati	le	Beef breeding herd	Feeder cattle
		*****	Angermande of the spirit delivers opinion and opinion and opinion.	rikapininki visti og iffinasyrrer, minglefærmillirer ý aprogrejys áfter		 Militar de Maria de la restación de la restación	ngraphing militare allows allows and an armous free any generalized by the re-
Total returns	•	1		****			provident manufacture per uniformitational.
Total feed cost	• • • • • • • • • • • • • • • • • • •				• •	Tarrengia, proglam mentamental semental seminal seminal seminal seminal seminal seminal seminal seminal seminal	the state of the s
Total return over	feed		de little of the control of the control of	alimite, impo angunto - popularina		te nitur international	
***	ř.					many and a second s	
			Farm	Sheep	e e		
		Hogs	Flock	Feeders		Turkeys	Chickens
Total returns					eritationis en en en financial de la contraction de la contraction de la contraction de la contraction de la c		
Total feed cost							
Total return over	feed		2 2				
					• .		

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

EXPLANATION OF "WORK UNITS"

The total "work units" for any one farm is a measure of the size of that farm business. A work unit as used in this report is the average accomplishment of a farm worker in a ten hour day working on crops and productive livestock at average efficiency or ten hours of work off the farm for pay. The number of work units for each class of livestock and each acre of crop are presented in Table 28.

Table 28. Number of Work Units for Each Class of Livestock and Each Acre of Crop

	No. of	No. of	
Item	work units	Item work unit	S
Dairy and dual pur. cows	14.5 per cow	Small grain .8 per	acre
Other dairy & du.pur.cattle	4.4 per an. unit	* Sugar beets 3.0 per	acre
Beef breeding herd	4.0 per an.unit*	Sweet corn 2.3 per	acre
Feeder cattle	.4 per 100 lbs.	Corn, husked 1.2 per	acre
Sheep - farm flock	2.0 per an.unit*	Corn, hogged .7 per	acre
Sheep - feeders	.5 per 100 lbs.	Corn, shredded 2.4 per	acre
logs	.3 per 100 lbs.	Corn silage 1.9 per	acre
lurkeys	.7 per 100 lbs.	Corn fodder 1.1 per	acre
Iens	25.0 per 100 hens	Alfalfa hay 1.0 per	acre
Canning peas	2.0 per acre	Soybean hay 1.4 per	acre
Soybeans for grain	1.0 per acre	Other hay crops .6 per	

*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 1400 pounds of turkeys produced.

Table 29. Summary by Years

Page 1 and the second of the s		Ta	ble 29.	Summary	by Years	•					
	Average 1928–29	Average 1930–32	Average 1933-39	1940	1941	1942.	1943	1 944	1945	19 ¹ 16	
Number of farms Acres in farm Crop acres in farm Farm inventory	148 170 116 \$24574	157 194 134 \$21767	139 214 144 \$19341	148 225 148 \$24044	197 227 1 ¹ 47 \$2 ¹ 4117	201 230 150 \$26088	177 224 148 \$27278	161 229 1 ¹¹ 5 \$2803 ¹ 4	170 224 1 ¹ 15 \$2763 ¹⁴	170 222 149 \$29020	
Farm Earnings (see page 28)		-				• ⁻ ·					
Cattle Hogs bought Sheep bought Poultry bought Horses bought Misc. livestock expense Misc. crop expenses Feed bought Custom work hired Power mach. (new & exp.) Mach. and equip. (new) Mach. and equip. (upkeep Bldgs., fencing (new) Bldgs., fencing (upkeep Hired labor Taxes and insurance General farm Total farm purchases Decrease in farm capital Board to hired labor Interest on farm capital Unpaid family labor	\$ 141 85 6 37 36 66 186 140 - 399 190 72 130 52 272 298 30 \$2,440 - 102 1,228 358	\$ 79 69 10 39 32 72 177 324 340 132 57 98 29 252 338 31 \$2,079 755 93 1,089 292	\$ 177 59 73 70 40 82 197 467 483 231 63 191 66 350 280 32 \$2,851 125 967 233	\$ 607 60 82 100 28 78 182 600 123 604 296 83 52 84 404 276 42 \$3,966 141 1,202 269	\$ 421 121 45 118 32 101 202 820 115 821 470 90 313 164 454 280 43 \$4,610	\$ 444 203 53 132 34 123 284 1416 164 696 464 166 245 226 571 313 46 \$5,580 177 1,304 304	\$ 37 ⁴ 205 62 167 3 ⁴ 161 36 ⁴ 1799 185 647 3 ⁴⁸ 381 228 693 212 3 \$6,191 1,36 ⁴ 386	\$ 357 182 80 194 30 155 472 1730 240 818 384 208 382 236 805 332 67 \$6,672 156 1,462 395	200 663 338 72 \$6,663 238 108 1,382 441	277 740 384 79 \$7.648 - 147 1,451 506	-25-
Total farm expenses	\$4,128	\$4,308	4186	\$5,598	\$6,239	\$7,365	\$8,112	\$9,136	\$8,832	\$9,752	

Table 29. Summary by Years (continued)

the second secon	·	Table	29. Summar	y by Years	(continu	ed)				
	Average 1928–29	Average 1930-32	Average 1933-39	1940	1941	1942	1943	1944 '	1945	1946
FARM RECEIPTS	,						· · · · · · · · · · · · · · · · · · ·			
Cattle	\$ 753	\$ 46 7	\$ 617	\$1,176	\$1,215	\$1,514	\$1,280	\$1,492	\$1,439	\$1,520
Dairy products	1,662	1,209	1,366	1,454	1,720	2,078	2,475	2,961	3,403	4.192
Hogs	1,164	950	926	984	1,778	3,104	3,551	3,168	2,573	2,863
Sheep and wool	52	39	169	162	173	177	203	214	230	265
Poultry	140	139	331	339	583	722	688	814	787	954
Eggs	275	232	340	405	523	765	1,040	1,022	1,265	1,172
Horses	30	30	46	48	523 3 1	34	31	28	23	20
Corn	37	39	137	128	88	111	137	143	175	207
Small grain	241	14ó	322	235	262	312	320	261	239	372
Other crops	163	170	162	250	287	457	520	762		705
Income labor off farm	102	112	157	148	146	119	146	145	168	163
Agric. adj. payments	0	0	218	324	331	343	190	81	4g	67
Misc.	134	151	210	295	342	269	214	290	300	431
(7) Total farm sales	\$ 4,753	\$3,678	\$5001	\$5,948	\$7,479	\$10,005				\$12,936
(8) Increase in farm cap.	617	***	53 ⁴	1,017	1,432	1,498	1,167	يدنار ويستو		706
(9) Fam. living from farm	325	248	254	458	505	576	643	646	639	1,706
(10) Total farm receipts	5,695	3,926	5789	7,423	9,416	12,079	12,605	12,027	12,065	700 1 15,342 9
(6) Total farm expenses	4,128	4,308	4186	5,598	6,239	7,365	8,112	9,136	8,832	9,752
(11) Oper. lab. earnings	1,567	-382	1603	1,825	3,177	4,714	4,493	2,891	3,233	
	-92,51		-00	-10-5	J311	91		~~, 03.		5,590
MISCELLANEOUS ITEES					<u> </u>		-	·	·	
Yield per A. corn (bu.)	44.8	43.5	46.1	56.3	57.6	61.2	51.8	F7 (·	
Yield per A. barley (bu.		30.1	26.3	41.0	29.0	28.1	16.2	51.6	34.0	50.7
Yield per A. oats (bu.)	46.0	48.1	39 . 0	58 . 2				9.8	32.7	31.0
Yield per A. alfalfa (to		2.6	2.2		31.5	49.3	42.7	39.1	48.3	43.1
riesu per M. arrarra (00	ns) 5.0	2.0		2.3	2.6	2.7	2.4	2.1	2.5	2.2
% high return crops	31.9	34.1	40.2	41.4	41.0	43.5	41.1	49.3	47.1	F0 7
A.U. livestock per 100 A		20.7	19.6	23.4	A), C		25.4			50.3
No. of work units	599	729	777	658	664	690	671	23.8	23.4	22.8
Work units per worker	310	339	339	292	301	316		66 6	645	63 ⁾ !
Expenses per work unit	\$1.76	\$1.34	\$1.30	\$1.66	\$1.87		305 \$2.70	303	323	317
No. of work horses		5.4	φ <u>ι.</u> 50 4.8	4.1	4.0	\$2.23	\$2.79	\$3.21	\$3.32	\$3.81
No. of colts	5• [‡]	2• ₹, •8;;	1.0	1.0	· · · ·	3•9	3.8	3 • 5	3.2	2.8
	14.2				ر. الحد	.9	. 7	•7	•5	•3
No. of milk cows	T.4.• C	17.1	18.1	17.1	17.4	18.1	17.5	17.9	17.3	16.7

Table 29. Summary by Years (Continued)

	<u> </u>	10010 2							
	Average 1928–29	Average 1930–32	Average 1933-39	1940	1941	1942	19143	1944 1945	1946
Misc. items (Cont.)							18.1	12.1 12.3	9.1
No. of litters of pigs	9.3	11.7	9.5	12.1	13.8	15.7			15516
Lbs. of hogs produced	12,706	16,219	13471	17,671		24,383	25,149		11.3
No. of head of sheep	7.0	11.5		18.6	16.1	16.2	15.2		240
No. of hens	136	156	184	197	197	219	246		266
Lbs. B.F. per dairy cow	244	241	238	260	261	253	247		170
Lbs. B.F. per dual pur. cov	v -			181	203	189	182	169 173	6.5
No. of pigs weaned per litt		6.2	6.3	6.3	6.3	6.3	6.0	6.1 6.3	
No. of eggs laid per hen	95	112	127	131	142	146	147	157 168	173
PRICE RECEIVED PER:		• • •			4	. \.		6 C2 6 CE	\$.82
Lb. B.F. sold as cream	\$ •52	\$.30	\$.31	\$ •33	T	\$.45	\$.55	\$.61 \$.65	એ. •O⊆. જજાર
Cwt. hogs sold	8.92	5.82	6.96	5.27	9.20	13.24	13.88	13.08 14.24	
Cwt. feeder cattle sold	_	- 2	<u>.</u>	8.67	9•72	11.69	13.84	13.84 13.86	15.53
Lb. wool sold	- 36	.13	.24	.31	•40	•41	.42	.43	
Doz. eggs sold	.28	.17	.17	.17	.22	•29	36	•32 •37	
Lb. turkey sold	_	-	•19	.16	•21	•29	•33	•34 •33	•33
RETURN ABOVE FEED COST PER	•							Anas as	5-74 FF
Dairy cow	\$76.50	\$28.16	\$ 4 3.72	\$58.05	\$71.65	\$84.86	\$93.27	\$101.31 \$125.85	\$1(8.55
Dual purpose cow	-	-		31.69	52.01	55.88	57.81	60.36 74.15	110.58 - 7.04
Cwt. hogs prod.	1.50	•30	2.34	1.50	5.41	7.09	2.90	2.77 4.26	
Head of sheep	5.50	07	2.62	3• ¹ •3	5.48	5.77	4.51	3.98 5.05	
Hen	1.82	1.13	1.02	•92	1.66	2.16	2.55	1.82 2.66	
Cwt. turkeys prod.		-	10.51	6.30	10.72	16.56	14.89	19.24 14.30	9.85
FEED COST PER:							. 18 	+ 1:1: +om -o	67 oc 00
Dairy cow	\$69.50	\$52.27	\$43.47	\$43.22	\$49.10	\$58.29	\$77.61		\$106.99
Dual purpos cow	3	-		36.29	39 .50	50.39	62.90	71.32 69.93	
Cwt. hogs produced	7.66	4.50	4.72	4,11	5.17	7.16	10.21	10.93 9.97	12.77
Head of sheep	2.82	2.26	2.56	2.61	2.57	3.01	4.34	3.96 4.60	
Hen	1.62	1.09	1.47	1.36	1.80	2.27	3.03	3.42 3.56	
Cwt. turkeys prod.		-	8.04	9.06	9•33	11.90	17.66	16.35 15.28	
Horse	55.09	36.13	35-67	31.33	35.49	40.25	50.93	49.60 43.79	41.67
PRICE OF FEED:		and the state of					y		
Shelled corn (per bu.)	\$.70	\$.49	\$.53	\$.46	\$ •52	\$.69	\$.91		\$ 1.17
Barley (per bu.)	•60	•36	•50	•31	• 38	•57	•79	•92 •94	
Oats(per bu.)	.48	•25	. 28	•26	.32	111		.68 .64	
Bran(per cwt.)	1.70	1.00	1.14	1.20	1.45	1.95	2.10	2.20 2.20	
Oilmeal (per cwt.)	3.00	2.00	2.05	1.75	2.00	2.30	2.55	2.82 2.82	
Alfalfa (per ton)	14.75	12.00	9•45	7.50	8.00	8.00	11.00	15.00 15.00	15.50
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Footnote for pages 30, 31 and 32.

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 land were adjusted upward 10 per cent. The value of dairy cows was also adjusted downward in 1932 and upward in 1936. These capital losses were not included in the inventory decreased 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 1946.

The charges for unpaid family labor and board for hired labor were also changed from year to year. The rates used for the period 1928 to 1946 were as follows:

Year	Unpaid family labor	Board for hired labor	Year	Unpaid family labor	Board for hired labor
1928 1929 1930 1931 1932 1934 1935 1936 1937	\$60 60 60 40 30 30 30 40 43 45	\$20 20 20 15 10 10 10 15 18	1938 1939 1940 1941 1942 1943 1945 1946	\$45 45 45 50 60 75 85 90 100	\$18 18 18 20 25 25 25 25 25

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

The crop ratings used in calculating the percentage of the tillable land in high return crops were changed considerably in 1944.

These adjustments should be considered in comparing 1946 results with previous years.