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VETERANS FARM MANAGEMENT SERVICE SOUTHWESTERN MINNESOTA

UNIVERSITY OF MINNESOTA

Department of Agriculture

and

Vocational Division

MINNESOTA DEPARTMENT OF EDUCATION

Cooperating

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Report No. 198

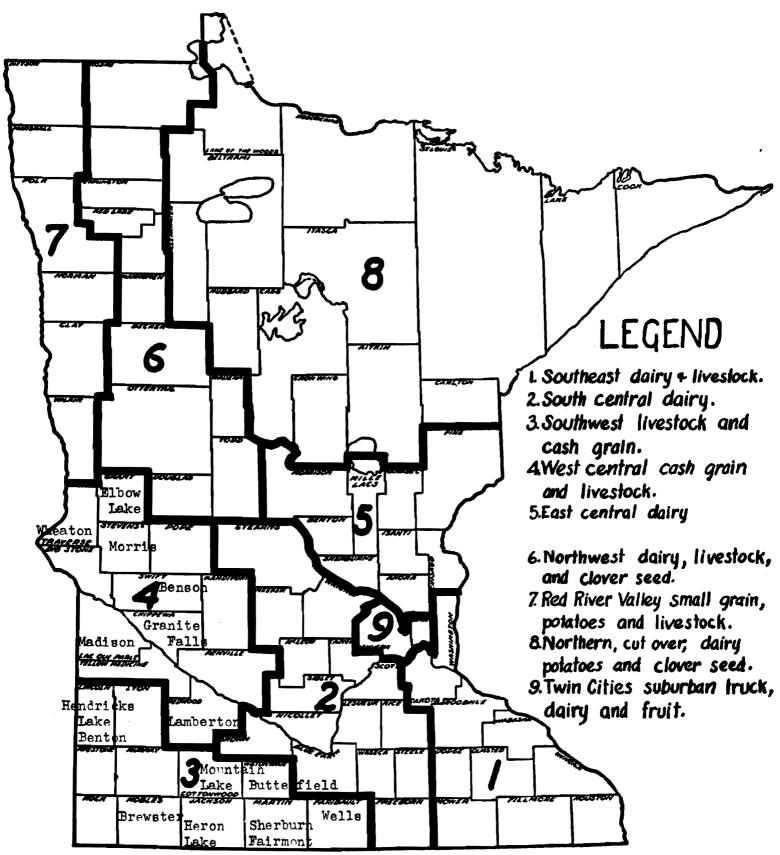
Division of Agricultural Economics

University Farm

St. Paul 1, Minnesota

July, 1952

TYPE-OF-FARMING AREAS IN MINNESOTA



Type of Farming Areas in Minnesota and Location of Schools Submitting
Farm Records for this report

REPORT OF THE FARM MANAGEMENT SERVICE FOR VETERANS TAKING ON-THE-FARM TRAINING IN SOUTHWESTERN MINNESOTA, 1951

T. R. Nodland, H. W. Swanson and G. A. Pond

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INTRODUCTION

In the fall of 1946, the Vocational Division of the Minnesota Department of Education asked the University of Minnesota to set up a farm management service for veterans taking on-the-farm training in the public schools throughout the state. The service was initiated on January 1, 1947. The cooperating agencies are the Division of Agricultural Economics, University of Minnesota, and the Vocational Division, Minnesota Department of Education representing the public schools.

The purpose of the project as far as the schools are concerned is (1) to give assistance to the instructors in the mechanics of keeping farm records, and (2) to aid in the analysis of the farm business through the use of records as a basis for vocational guidance. Schools with an on-the-farm training program can enroll their students in the farm management service. The enrollment is on a voluntary basis insofar as the number of schools participating and the number of veterans enrolled in the service are concerned.

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 and T. R. Nodland. The State Department of Education was represented by G. R. Cochran, State Supervisor of Agricultural Education. At the end of the year, B. F. Stanton, R. M. Dennistoun and H. G. Routhe of the Division of Agricultural Economics aided in closing the records.

This report deals with the veterans enrolled by sixteen schools located in southwestern Minnesota (Type-of-Farming Area 3 and 4). The map on the inside front cover of this report shows the location of the schools. The following tabulation shows by schools the number of farm records submitted in 1951:

Benson	2	Granite Falls	4	Madison	5
Brewster	2	Hendricks	2	Morris	6
Butterfield	5	Heron Lake	2	Mountain Lake	5
Elbow Lake	3	Lake Benton	1	Sherburn	3.
Fairmont	8	Lamberton	6	Wells	2
				Wheaton	10
		•		Total	66

Data on the succeeding pages are shown for 61 farms. Five farms were omitted from all of the averages in this report because the records were not sufficiently complete for a full analysis.

The records kept by the enrolless included farm inventories at the beginning and at the end of the year, cash farm receipts and expenses, feed consumed by the various classes of livestock, family living received from the farm, liabilities and assets other than the farm capital and household and personal cash expenses and receipts.

Only records from actual farm operators are included in this report. All types of tenure arrangements from full owners to partnerships in which the operator furnishes little or no capital are represented.

FARM INVENTORIES

The capital investment per farm varied from \$13,340 to \$88,375. The average investment for all farms included in this report and for the one-fifth high and the one-fifth low in operator's labor earnings is shown in Table 1.

Landlords or partners supplied some capital in 51 out of the 61 cases included in this report. The landlord's investment has been included in Table 1 in order to show the total amount used per farm.

FARM MARNINGS

Operator's labor earnings is a measure of the relative financial success of a farmer as compared with other farmers and represents the returns above all farm expenses and a charge for the use of farm capital. For purposes of comparison, the earnings are presented on a full-owner basis.

There are two methods of computing operator's labor earnings. Table 2 shows the earnings statement on a cash basis and Table 3 shows the earnings on an enterprise or accrual basis. The principal difference in the two statements is in the method of handling the net increase or decrease in the value of farm capital. In the cash statement the net increase or decrease in farm capital is entered as one item. In the enterprise statement the net change in the inventory has been included in each enterprise in order to compute "total returns and net increases", or "total expenses and net decreases" by enterprises.

^{1.} For a description of the area, see Minnesota Agri. Expt. Sta. Bul. 347 May, 1940.

Table 1. Summary of Farm Inventories, 1951

	You	ur Farm	Average o	f 61 farms
Items	Jan. l	Dec. 31	Jan. 1	Dec. 31
Size of Farm (acres) Size of business (work units)**		e dage State Court place	235 366	,
Dairy and dual purpose cows Other dairy & dual purpose cattle Beef cattle Hogs Sheep Poultry Productive livestock (total) Horses Crop, seed, and feed Power mach. (farm share) Crop & general mach. (farm share) Livestock equip. (total) Mach. and equipment (total) Misc. Buildings, fences, etc. Land			\$ 1019 491 1116 1103 208 183 4120 25 2718 2347 2486 473 5306	\$ 1217 688 1655 1246 328 183 5317 16 2454 2477 2892 524 5893 7
Total farm capital	NAME OF THE OWNER OWNER OF THE OWNER OWNE		3 7 495	39124

		orofitable farms		profitable farms
Items	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Size of farm (acres)	352		196	
Size of business (work units)**	400		315	4
Dairy & dual purpose cows	508	665	900	1432
Other dairy & dual purpose cattle	237	269	575	8 25
Beef cattle	2285	3277	1167	1228
Hogs	70 ¹ 4	894	1106	1027
Sheep	2	<u>,</u>	. 58	3 2 6
Poultry	15 5	125	175	201
Productive livestock (total)	3891	523 ¹ 4	3981	5039
Horses	23	22	28	7
Crop, seed, and feed	2192	2759	2776	2272
Power mach. (farm share)	3029	3099	2395	2629
Crop & general mach.	2796	3327	2259	2706
Livestock equipment & supplies	338	363	490	568
Mach. & equipment (total)	6163	6789	5144	5 90 3
Buildings, fences, etc.	7438	7715	11716	11474
Land	21911	21911	19811	19811
Total farm capital	41618	44430	43456	44506

^{*}For the purpose of comparison, all the data shown in this report with the exception of Table 6 and 7 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 13 for an explanation of "work units."

Table 2. Summary of Farm Earnings (Cash Statement), 1951

Table 2. Summary of Farm Earnings (102
	Average		12 least
Items farm		-	profitable
Items farm FARM RECEIPTS	<u>farms</u>	farms	farms
Dairy and dual-purpose cows	d 200	.	
Dairy products	\$ 292	\$ 123	\$ 159
	759	7 115	778
Other dairy & dual-purpose cattle	277	130	260
Beef cattle	1049	1431	1255
Hogs	3424	2345	3613
Sheep and wool	212		68
Poultry (including turkeys)	727	1 1/11	136
Eggs	817	654	759
Horses	9	-	19
Com	1118	1728	1245
Small grain	1753	4127	896
Other crops	614	809	435
Machinery & equip. sold	512	684	728
Agricultural adjustment payments	47	57	26
Income from work off the farm	123	132	73
Miscellaneous	40	íg	ží
(1) Total farm sales	11773	12824	10471
(2) Increase in farm capital	1629	2812	1050
(3) Family living from the farm	510	582	59 ¹ 4
(4) Total farm receipts (1)+(2)+(3)	13912	16218	12115
() () () () () () () () () ()			
ARM EXPENSES			,
Dairy and dual-purpose cows bought	\$ 194	\$ 182	\$ 252
Other dairy and dual-pur.cattle bot.	148	. 38	304
Beef cattle bought	775	1025	` ¥¥5
Hogs bought	471	134	724
Sheep bought		=	
Poultry bought (including turkeys)	134	- Eø	265
	_ 257 1	58	103
Horses bought	2	\.	5
Misc, livestock expense	174	114	131
Misc. crop expenses	<u> </u>	662	553
Feed bought	<u> </u>	1012	1414
Custom work hired	321	338	318
Mech. power mach. (farm share)(new)	819	909	୨୫୫
Mech. power mach. (farm share)(upkp.)	_ 212	207	202
Mech. power(f.share)(gas,oil,etc.)	776	819	784
Crop and general mach. (new)	955	1114	1105
Crop and general mach. (upkeep)	154	155	135
Livestock equipment (new)	152	95	161
Livestock equipment (upkeep)	78	53	64
Buildings and fencing (new)	514	588	269
Buildings and fencing (upkeep)		_ ₁₄₀	110
Hired Labor	191	163	217
Taxes	412	547	359
General farm and insurance	83	74	74
(5)Total farm purchases	9185	8327	8982
(6)Decrease in farm capital		ובקט	- 6,70 <u>2</u>
(7)Interest on farm capital	1915	2151	2199
		685	380 ·
(8)Unpaid family labor		60	500 53
(9)Board furnished hired labor	- 1150 0		$\frac{25}{11614}$
(10)Total farm exp. (sum of (5)to(9)	11582	11223	
(11)Oper. labor earnings (4)-(10)	2330	4995	501

Table 3. Summary of Farm Earnings (Enterprise Statement) 1951

Table 3. Summary of Farm Earni	ngs (Ent	erprise	Statement) 1	951*
			12 most	12 least
	Your		profitable	profitable
Items	farm	farms	farms	farms
RETURNS AND NET INCREASES	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	,		
Dairy and dual purpose cows		954	. , :576 -	980
Other dairy & dual pur. cattle	***	653	231	668
Beef breeding herd		485	1300	376
Feeder cattle	-	346	163	489
Hogs		3151	2456	2864
Sheep	-	197	. 3	71
Turkeys		413	:	. 4
Chickens	-	934	763	880
All productive livestock		7133	5 11 92	6332
Crops, seed and feed		872	5518	33
Agricultural conservation payments		47	57	26
Income from labor off the farm		38	45	9
Miscellaneous	****	188	230	245
(1) Total returns & net increases		8278	11342	6645
EXPENSES AND NET DECREASES				
Horses		14	18	16
Tractor		728	749	709
Truck		93	155	71
Auto (farm share)	,	373	367	384
Gas engine and elect. exp. (f.share)		77	65	77
Hired power		119	105	130
Total power		1404	1459	1387
Crop and general machinery		632	642	607
Livestock equipment		170	118	137
Buildings, fencing and tiling		395	Sjijt	509
Misc. productive livestock exp.	***	174	114	1 31
Labor		7,63	998	741
Real estate taxes	-	346	492	306
Personal property tax	Marificon Company	66	55	53
Insurance	***	37 46	35	33 41
General farm	-		39	
Interest on farm capital		1915	2151	2199
(2) Total expenses & net decreases		5948	6347	6144
(3) Oper. labor earnings (1)-(2)	-	2330	4995	501

^{*} Cash receipts and expenses are adjusted for changes in inventory for each enterprise and for each item of expense in order to show total receipts and net increases, and total expenses and net decreases. The operator's labor earnings are the same as those on page 4.

FAMILY LIVING FROM THE FARM

The family living from the farm is the estimated value of the farm produce used in the house and shelter furnished the farmer and his family by the farm. It is a part of the income of the farm and a part of the expenses of operating the household even though cash transactions are not involved. The omission of the farm produce used in the home results in an incomplete record of both farm income and personal expenses.

The value of the family living as shown in Table 4 amounts to four per cent of the total farm receipts on these farms. The values assigned are a conservative market price on the farm. If these products had been purchased, the amount paid out would have been considerably higher.

The rental value of the dwelling is calculated by taking ten per cent of the average inventory value of the dwelling.

,	-	Average	•	Average
, .	Your	o£ 60	Your	of 60
Items	farm	farms*	farm	farms*
Adult equiv family		2.4		,
- others		'ڙ∙		
Whole milk		645 qts.		\$ 61.16
Skim milk		37 qts.		1.06
Cream		79 pts.		22.59
Farm made butter	4	4 1bs.		2.71
Beef	***************************************	173 lbs.	-	39.65
Hogs		291 1bs.	44	55.09
Sheep		- lbs.		
Poultry		116 lbs.		22.15
E ggs	****	112 doz.		40.57
Potatoes		2 bu.	-	2.78
Vegetables & fruits				8.12
Farm fuel	A SECTION AND A			.34
Rental value of house			-	262.82
Total	, **********		-	519.04

^{*} One farmer did not maintain a household.

HOUSEHOLD AND PERSONAL EXPENSES AND RECEIPTS

Household and personal accounts are important if the family is to manage its financial affairs wisely. The household and personal expenses and receipts are presented in Table 5. These farmers spent an average of \$171 per month for family living in addition to the food, fuel and housing furnished by the farm. Most of the personal receipts were in the form of veterans compensation payments.

Table 5. Household and Personal Expenses and Receipts for Those Farmers Who Kept Complete Accounts of These Items, 1951

Those Parmers who kept Complete				11 least
	,, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Average	profit	profit-
	Your	of 56	a ble	able
Items	farm	farms*	farms	farms
Number of persons in family		3-7	3.8	3. 3
Number of adult equivalents in family		2.4	2.3	2.3
Number of other adult equivalents**		•3	.4	• 3
EXPENSES				
Food and meals bought	\$	\$ 635	\$781	\$ 607
Operating and supplies		230	266	197
Clothing and clothing materials		2 2 3	194	2 5 5
Personal care, personal spending		77	82	116
Furnishings and equipment		206	170	277
Education, recreation and development		87	101	106
Medical care and health insurance		157	163	178
Church, welfare, gifts		139	23 2	170
Personal share of auto expense		106	108	132
Household share of elect. & gas eg. exp.		46	53	36
H.H. & pers. shr. of new auto & motors bo	t. 💮 🧸	142	212	74
Total cash living expenses	*	2048	2362	2148
State and federal income tax		27	39	37
Insurance		86	39 62	100 4
Total household and pers. cash exp.		2161	2463	22 85
Food furnished by the farm	·	251	2 70	241
Fuel furnished by the farm		-	-	2
House rental	•	<u> 256</u>	<u> 336</u>	<u>338</u>
Total cash expenses and perquisites		2668	30 69	2 866
Purchase of stocks, bonds, and other inves	st	31	· -	-
RECEIPTS			£. ***	
Income from outside investments		42	- 9	2
Veterans compensation		1155	1144	1265
Misc. income		11	29	

^{*} Five farm operators did not keep a record of household and personal expenses.

** Hired help or others boarded.

NET WORTH

A net worth statement includes a listing of all the assets and liabilities as of a given date. The difference between the farmer's total assets and his liabilities is his net worth. A net worth statement for owners and cash and crop shared renters is presented in Table 6. Both the farm and personal assets and liabilities are included.

The difference between the operator's net worth at the beginning and at the end of the year shows the gain in net worth. It represents the financial progress that has been made during the year.

In the control of the c

Table 6. Net Worth Statement for Those Farmers Who Kept a Complete Record of All
Assets and Liabilities, 1951 (Operator's Share)

	Your farm		8	owners
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Total acres in farm			183	
Owned.	-		183	
Rented				
Total farm capital			\$28825	\$30476
Accounts receivable	14	- 11 - 150 - 1	495	332
Stocks and bonds		-	664	594
Life insurance			340	360
Other real estate				
Other outside investments	***************************************		239	256
Total outside investments			1243	1210
Cash on hand and in bank			541	203
Other household & personal assets		-	1618	1905
Total cash, household & personal assets			2 159	2108
TOTAL ASSETS		•	32722	34126
Federal Land Bank Mortgage		***************************************	_	_
Other mortgages on land operated		4	12308	11895
Mortgages on outside real estate			_	
Production Credit Association	***************************************		_	1 2 5
Crop loans			740	321
Other chattel mortgages			2424	2691
Notes payable	-		125 3	1024
Accounts payable	***************************************		140	182
TOTAL LIABILITIES			16865	16238
Farmer's net worth			15857	17888
Gain in net worth	**************************************	**************************************		+2031

	7 part-owners		3 ¹ 4 ren	ters**
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Total acres in farm	292		256	
Owned	164		<u>-</u>	
Rented	128		256	
Total farm capital	\$22323	\$23856	\$10233	\$11415
Accounts receivable	51	29	73	82
Stocks and bonds	395	320	108	77
Life insurance	337	278	2 3 4	266
Real estate	1440	1400	7	7
Other outside investments	32	44	10	20
Total outside investments	2204	2042	359	370
Cash on hand and in bank	459	411	261	264
Other household and personal assets	1923	1901	1804	2012
Total cash, household & personal assets	2382	2312	2065	22 76
TOTAL ASSETS	26960	28239	12730	14143
Real estate mortgages on land operated	6345	6230	<u> </u>	-
Mortgages on other real estate	500	500	-	_
Production Credit Association	_	-	•	
Crop Loans	91	_	233	105
Chattel mortgages	1516	50 0	1584	1463
Notes payable	2 586	3150	1455	1540
Accounts payable	133	99	350	425
TOTAL LIABILITIES	11171	10479	3622	353 3
Farmer's net worth	15789	17760	9108	10610
Gain in net worth		+1971		+1502

^{* 3} rented for cash and crop share, 1 crop share, and 3 crop and livestock share.

** 1 rented for cash, 3 crop share, 24 cash and crop share, and 6 crop and livestock share.

Table 7. Summary of Farm Earnings by Tenure, 1951 (Operator's Share)

Table 7. Summary of Farm Earnings by				
	Your	. 8	7 part	34
	farm	owners	owners	renters
FARM RECEIPTS	• ,		A	A
Dairy and dual purpose cows	*	\$ 420	\$ 140	\$ 214
Dairy products		1248	244	546
Other dairy and dual purpose cattle	-	369	110	5jtjt
Beef cattle		2013	530	564
Hogs		1916	2742	2780
Sheep and wool		- الم	659	714
Poultry		2441	504	128
Eggs		1216	505	676
Horses		6 81 ¹ 4	670	10 =)(6
Corn			679	546
Small grain		853	1534	<i>ከ</i> ታ O ዴ ឧឧ
Other crops	****	27 ¹ 4	320	
Machinery & equipment sold		371	308 57	57 ¹ 4
Agricultural adjustment payments	-	87 170	57	3 ⁴
Income from work off the farm	· · · · · · · · · · · · · · · · · · ·	170 27	252	95 15
(1) Total farm sales		12225	<u>217</u> 9101	
• •	***************************************	1651	-	7798 11 82
(2) Increase in farm capital (3) Family living from the farm		415	1533 427	505
		14291	11061	
(4) Total farm rec. (1)+(2)+(3) FARM EXPENSES		14291	11001	9485
Dairy and dual purpose cows bot		\$ 297	\$ 358	\$ 104
Other dairy & dual. pur. cattle bot		145	139	121
Beef cattle bot. (including feeders)		1655	619	310
Hogs bot		318	297	290
Sheep bot (including feeders)		J_0	167	45
Poultry bot (including turkeys)		1063	105	85
Horses bot	-	<i>-</i> -	7	2
Misc. livestock expenses		262	166	119
Misc. crop expenses		488	761	375
Feed bot	**************************************	1552	1385	1144
Custom work hired	***************************************	3 <u>5</u> 5	302	264
Mech. power mach. (farm share)(new)		761	536	889
Mech. power mach. (farm share) (upkeep)	173	211	184
Mech. power (farm share)(gas,oil, etc.		648	812	744
Crop and general mach. (new)		1035	671	797
Crop and general mach. (upkeep)		87	211	i4i
Livestock equipment (new)		148	136	142
Livestock equipment (upkeep)		41	97	65
Land, buildings & fencing (new)		864	254	137
Buildings and fencing (upkeep)		54	190	26
Hired labor		269	g4	201
Taxes (real estate & pers. property)		359	223	47
General farm and insurance		143	71	57
Cash rent			52	239
Interest paid		<u>686</u>	<u>407</u>	135
(5) Total farm purchases		11403	8261	6663
(6) Decrease in farm capital				
(7) Interest on farm capital		797	747	406
(8) Unpaid family labor		376	416	295
(9) Board furnished hired labor		22	<u>81</u>	<u>46</u>
(10) Total farm exp. (sum of (5)to(9))	12598	9505	7410
(11) Operator's labor earn. (4)-(10)	-	1693	1556	2075
(12) Ret. cap. & family lab. (7)+(8)+(11)	2866	2719	2776

RETURNS TO CAPITAL AND FAMILY LABOR

The return to capital and family labor represents the amount available to the operator for living expenses, payment on indebtedness, and savings. The landlord's expenses and receipts are not included.

The average return to capital and family labor for 8 owners, 7 part-owners and 34 renters is shown in Table 7. The statement includes only the veterans share of the earnings of the partnership. The earnings as shown in Table 7 are on an actual basis as compared to the full-owner basis in Tables 2 and 3.

MANAGEMENT FACTORS AND THEIR RELATION TO EARNINGS

Every study of farm earnings shows a wide variation in earnings among farmers in a given year. The average labor earnings of those farmers ranking in the upper 20 per cent of the range according to earnings was \$4995 and of those in the lower 20 per cent was \$501. This is a range of \$4494 between the average earnings of these two groups. Some of the causes for these differences in earnings, such as weather, may be beyond the control of the individual farmer. Other factors are within his control. The more important management factors affecting earnings and their relationships with earnings are presented in the following tables. These factors vary from year to year in their relative influence on earnings.

Crop Yields. The measure of crop yields used is the crop yield index. It is a comparison of the yield per acre of all crops on a given farm with the average yields for all farms included in the study. High crop yields make their maximum contribution to earnings if they are the result of good crop selection, the use of adapted varieties, skill and timeliness in performing the operations.

Table 8.	Relation of	Crop Yields	to Farm Earnings
Index of	crop yields	No. of	Average operator's
Range	Average	farms	labor earnings
Below 80	67	14	\$1090
80 - 119	103	3 3	2596
120 and above	e 129	14	2943

Choice of Crops. Over a period of years certain crops have a definite advantage over others. The crops are classified on page 16 as A, B, C or D crops on the basis of their average net returns per acre. Choice of crops as computed in this study showed no definite relationship to earnings in 1951. In computing the percentage of land in high return crops corn is given the highest rating and normally merits it. However the yield of corn was so low and the quality so poor that it had little advantage over competing crops in 1951.

Return from Livestock. This is a measure of feeding efficiency. The majority of these farmers maintain some cattle, hogs and poultry. Most of the crops raised and some additional purchased feed are fed to livestock. Although feed is the major item expense in livestock production, an increase in feeding efficiency did not show a relationship to earnings in 1951. Other factors were more important during this year.

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

Index of returns for \$1	.00 feed	No.	Average
consumed by productive	livestock*	of	operator¹s
Range	Average	farms**	labor earnings
Below 91	78	21	\$2342
91 - 115	102	26	2314
116 and above	131	13	54,41

^{*}The index is weighted by the number of animal units of each class of livestock.

Amount of Livestock. This factor measures the importance of livestock in the farm business. It is the amount of livestock units per 100 acres in the farm other than land in timber, roads, waste and farmstead. Livestock are important in that they add to the size of business. They provide employment throughout the year and aid in maintaining or building up the fertility of the land.

Size of Business. Productive man work units are a measure of mize of business. The relationship of size of business to farm earnings is shown in Table 12. Average farm earnings tend to increase with an increase in size of business if size is accompanied by good management. For farmers operating their farms at a loss, the larger the volume of business, the larger will be the loss. Normally a large business has an advantage over a small business because they utilize more efficiently and to better advantage available labor, power, machinery, equipment and buildings.

Table 12. Relation of Size of Business to Farm Earnings Work units No. of Average operator's Range Average farms labor earnings Below 275 225 14 \$1407 344 275 - 42435 . 2497 425 and above 594 2920

Work Accomplished Per Worker. The work accomplished per worker is determined by dividing the total man work units by the number of workers on the farm during the year. An increase in the productive work accomplished per worker reduces the labor charge per unit of business. Planning of the farm work and economical use of labor-saving machinery help to increase the output of work per worker.

^{**}One farmer did not maintain livestock.

Table 13.	Relation of	Work Accomplished Per	Worker to Farm Earnings
Work units	per worker	No. of	Average operator's
Range	Average	farms	labor earnings
Below 215	177	14	\$1747
215 - 299	253	32	2179
300 and abo	ve 364	15	31 97

Control Over Expenses. The depreciation and cash cost of upkeep for power, machinery, equipment and buildings per unit of work is used as a measure of the efficiency of their use on a farm. Some farmers lack power, machery and buildings for satisfactory operation. In case of others, an excessive investment in these items may constitute an important factor limiting earnings.

Table 14.	Relation	of Expenses	to Farm Earnings
Expenses per wo		No. of	Average operator's
Range	Average	farms	labor earnings
\$9.00 and above	⇒ \$11.11.	16	\$1790
\$6.26 - \$8.99	7.32	34	2356 264 7
Below \$6.25	5.19	11	264 7

CUMULATIVE EFFECT OF EXCELLING IN A NUMBER OF MANAGEMENT FACTORS

The relation of several management factors to operator's labor earnings has been shown in the preceding section. Because of the large number of interrelationships between these factors the exact relationship between one factor and earnings cannot be determined. The combined or cumulative influence of the seven management factors on earnings is shown in Table 15. Insofar as these factors are within the farmer's control, he may be well paid for his efforts to improve his efficiency as measured by them.

Table 15. Relation of Operator's Labor Earnings to the

	Number of	Factors	s in Which the Farmer Excels	
No. of	,			Average
factors in	No.		The length of the lines is in	operator's
which farmer	of	Your	proportion to the average	labor
excels	farms	farm	operator's labor earnings	earnings
None, 1 or 2	25		***************************************	\$ 1.698
3 or 4	21		***************************************	2764
5, 6 or 7	15		***************************************	2776

The array in Table 15 suggests that it may be well worth while for each cooperator to study carefully his ranking on pages 14 and 15, and learn his standing in respect to each of the seven factors as indicators of elements of strength and weakness in his farm business.

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 16.

Table 16. Number of Work Units for Each Class of Livestock

,	No. of		No. of	
Item	work units	Item	work units	
Dairy and dual pur. cows	14.0 per cow	Small grain	•7 per acre	
Other dairy&dupur.cattle	4.0 per an unit*	Com, husked	1.1 per acre	
Beef breeding herd	4.0 per an unit*	Corn, hogged	.7 per acre	
Feeder cattle	.35 per 100 lbs.	Corn, shredded	2.2 per acre	
Sheep - farm flock	1.8 per an. unit*	Corn, silage	1.7 per acre	
Hogs	.3 per 100 lbs.	Corn, fodder	1.0 per acre	
Turkeys	.7 per 100 lbs.	Alfalfa hay	.9 per acre	
Hens	22.0 per 100 hens	Soybean hay	1.4 per acre	
Soybeans for grain	.7 per acre	Other hay crops	.6 per acre	

^{*} An animal unit represents one dairy cow or bull, two head of other dairy cattle, $1\frac{1}{4}$ beef cows or bull, 1 feeder steer or heifer, 3 1/3 other beef cattle, 7 sheep, $1\frac{1}{4}$ lambs, $2\frac{1}{2}$ hogs, 5 pigs, 50 hens and 1100 pounds of turkey produced.

Table 17. Measures of Farm Organization	and Management		
Measures used in chart on page 15	Your of 61 farm farms		12 least profit- able farms
Operator's labor earnings	\$\$2330	\$ ¹ +995	\$ 501
(1) Crop yields*	· 100.	110	85
(2) % of tillable land in high ret. crops**	48.0	45.7	46.9
(3) Ret. for \$100 feed to prod. livestock***	100	97	10)4
(4) Prod. livestock units per 100 acres****	17.9	10.1	16.8
(5) Size of business - work units	366	1 400	315
(6) Work units per worker	261	267	225
(7) Pow., mach., equip., & bldg. exp. per work unit	*7. 45	\$ 6.70	\$ 8•79
Items related to some of the above measures:			· · · · · · · · · · · · · · · · · · ·
(3) Index of return for \$100 feed from Dairy cattle (See pages 20 and 21) Beef breeding herd (See page 24) Beef cattle - feeders (See page 24) Hogs (See page 19)	100 100 100 100	87 99 - 95	96 - - 99
Sheep - farm flock (See page 25) Turkeys Chickens (See page 22 and 23)	100 100 100	105	107
(4) Number of animal units	33.1	25.2	28.5
(5) Work units on crops Work units on productive livestock Other work units	158 203 5	241 155 4	133 181 1
(6) Number of family workers Number of hired workers Total number of workers	1.3 .1 1.4	1.4 .1 1.5	1.2 .2 1.4
(7) Power expense per work unit Crop machinery expense per work unit Livestock equip. expense per work unit Bldgs. & fencing exp. per work unit	\$\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$3.96 1.76 .32 .66	\$4.53 2.08 .42 1.76

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

^{**}Crops are marked in Table 18 as (A), (B), (C), and (D). All of acres in (A) crops, one half of acres in (B) crops, and one fourth of acres in (C) crops are used in calculating per cent of tillable land in high return crops.

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

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

Thermometer Chart

Using your figures from page 14, locate your standing with respect to the various measures of farm organization and management efficiency. The averages for the 61 farms included in this summary are located between the dotted lines across the center of this page.

-	Ope:	r.					Retu	rn	Pr. L	. S .	·		Work	Davi	, mach.
	lab	or			High		from		unit				units		., macn. , & bldgs.
	ear		Crop		return		duct		per		Work		per	* .	per
•	ing	3	yield	is	crops		lives	tock	100	A	Unite	1	vorkei	r worl	c unit
\$4700		140		68.0		140		34.		570		380		\$4.25	
4400		135		65.5	E	135		32.	· E	545		365		4.65	;
4100		130		63.0		130		30.	٥	520		350		5.05	
3800		125		60.5		125		28.		495		335		5.45	
3500		120		58.0		120		26.		470		3 2 0		5.85	
3200		1 15		55.5		115	1	24.	0 =	445		305	H	6.25	
290 0		110		53.0	H	110		22.		420		290		6.65	
2600		105		50.5		105		20.		395		275		7.05	
2300		100	E	48.0	E	100		18.	•	370	· Ei	260	·EI	7.45	• •
2000		95		45.5		95		16.		345		245		7.85	***
1700	1	90		43.0		90		14.	mlm	320		230		8.25	
1400		85		40.5		85		12.	0 [295		215		8.65	
1100	H	80		38.0		80		10.		270		200	E	9.05	
800	H	75		35.5	H	75		8.	° El	245		185	E	9.45	
500		. 70		33.0		70		6.	o E	2 2 0		170	目	9.85	
200		65		30.5		65		4.		195		155	H	10.25	
			5		E		8	• • •	6		B		B	E	}

Table 18. Distribution of	of Acre		rm and	Yield of	Crops, 10	951
Crop: (A), (B), (C) and (D) red		No.	Acres	in farm		d per acre
to ranking used in calculating	. €	rowing		Average	of the second se	Average of
% of tillable land in High		this	Your	of 61	Your	farms growing
Return Crops (see page 10)		crop	farm	farms	farm	each crop
Flax ((c)	38		20.9		O 7 has
	ά	26		15.3	-	9.3 hu. 22.2 bu.
•	(D)			39.8		42.5 bu.
	(a)	59 16	***************************************	9.8		15.4 bu.
	(a)	1				- 500
Total small grain		61		86.1	` ` q •	
Corn grain ((A)	61		56.5		33.4 bu.
Corn silage ((B)	27		4.0		6.3 tons
	ŒΣ	3		•5	***************************************	2.9 tons
	(B)	40		12.7		15.3 bu.
	(α)	_3				1.8 tons
Total cultivated crops	* *	27 3 40 3 61		73-9		•
Alfalfa hay ((A)	50		13.6		2.2 tons
	(C)	. 7		2.2		1.5 tons
Other hay and seed crops ((*)	7		<u>.8</u>		
Total tillable land in past	ure	52		16.6		
Alfalfa pasture (A)	16	-	2.8	•	
Other pasture on tillable land (**)	21		4.1		
Total tillable land in past	ure	30.		4.1 6.9		
Tillable land not cropped (D)	13		4.6		:
Total tillable land		13 61		188.1		
Wild hay (non-tillable)	,	27		7.1		.7 tons
Non-tillable pasture		37		17.2		•
Timber (not pastured)		5		.2		
Roads and waste				14.6		
Farmstead				7.4		•
Total acres in farm				234.6		
Per cent land tillable			• .	80.2		•
Per cent tillable land in high r	et. cr	ops	-	48.0	• *	•

^{*} Soybean hay was given a rating of C, and timothy or brome hay and annual hay, D.
** Clover and timothy for pasture was given a rating of C and bluegrass, D.

POWER AND MACHINERY EXPENSES

Power and machinery expense per crop acre is an indication of the economy with which capital is invested in these items. The crop acres per farm ranged from 72 to 948 with an average of 183.7. (Table 20) The expenses are high on the farms with a small acreage. In some cases, low expenses for labor might be offset by high power and equipment costs. The farmer is interested in operating at the lowest cost for power, machinery and labor combined.

Table 20. Power and Machinery Expenses Per Crop Acre. 1951

Items	Your	Average of 66 farms	12 most profitable farms	12 least profitable farms
Crop acres per farm		183.7	289.8	150.6
Tractor and horse exp. per crop acre Crop & gen. mach. exp. per crop acre	****	\$ 4.63 3.87	\$ 3.47 2.87	\$ 4.81 4.21

The feed cost for horses is a part of the cost of power on those farms maintaining horses. The annual feed cost per horse is shown in Table 21. Forty-six farmers did not maintain horses.

	Your	Average of 15
Items	farm	farms
Feed per horse, lbs.:	· . i	
Grain	<u> </u>	476
Hay		1577
Fodder and stover		33
Feed cost per horse:	1	•
Grain		\$12.33
Roughage		9.72
Pasture		7.41
Total feed cost		\$29.47
Number of work horse	S to the	1.7

AMOUNT OF LIVESTOCK

A large proportion of the farmers maintained some dairy or dual purpose cattle. However, the average number of milk cows per farm was small (Table 22). Ninety per cent of the farmers kept hogs and eighty-two per cent raised poultry.

Table 22. Amount of Livestock, 1951 Average 12 most 12 least of 66 profitable Your profitable farm farms farms farms Number of milk cows 5.3 6.4 2.9 5.0 Number of other dairy cattle 3.3 7.6 Number of beef cows 2.1 6.0 1.8 Number of sheep* 10.8 1.1 6.0 Number of hens 156 149 136 Number of litters of pigs raised 10 10 8 1479 Pounds of feeder cattle produced 1109 392 Pounds of hogs produced 17325 Number of horses

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

TOTAL FEED COSTS AND RETURNS FROM YOUR LIVESTOCK ENTERPRISES

The total "return over feed costs" for each class of livestock is shown in Table 23. 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 net increases shown on page 5. The value of milk consumed by calves is included in the total returns from dairy or dual purpose cows and in the total feed cost for other dairy or other dual purpose cattle. The value of milk consumed by calves is not included in either the total returns or the feed cost of "all dairy" or "all dual purpose" cattle. 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.

Table 23. Total Feed Costs	and Returns	From Your	Livestock	Enterprises,	1951
	Dairy or Cows	dual purpo			Beef breeding
	COMB	Oaner	All	· · · · · · · · · · · · · · · · · · ·	herd
Total returns					
Total feed cost					- 10 - 14 - 14 - 14 - 14 - 14 - 14 - 14
Total return over feed	*				
	Feeder cattle	Hogs	Farm flock of sheep	Chickens	Turkeys
Total returns	:	and the state of t	•		
Total feed cost					
Total return over feed			•		

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.

HOGS

The return over feed cost per 100 pounds of hogs produced varied from \$8.59 for those farmers ranking in the upper fifth in feeding efficiency to a return of \$ -3.20 less than feed cost for those in the lowest one-fifth. Some of the important factors that normally affect return over feed are:

- 1. Quantity of feed required to produce 100 pounds of hogs.
- 2. Price received.
- 3. Number of pigs born per litter.
- 4. Number of pigs weaned per litter.

Table 27. Feed Costs and Returns From Hogs, 1951							
,			ll farms	ll farms			
	•	Average	highest in	lowest in			
	Your	of 5 5	returns	returns			
Items	farm	farms	above feed	above feed			
Feed per cwt. hogs produced, lbs.:			•				
Corn		339	305	469			
Small grain		1 50	128	217			
Commercial feeds		42	3 <u>1</u> 464	_33			
Total concentrates		531 84	N 6	719			
Skim milk and buttermilk		84	73	105			
Feed cost per cwt. hogs produced:	* Name of the		_				
Concentrates \$		\$13.88	\$11.12	\$ 19.69			
Skim milk and buttermilk		+37	•30	-,42			
Pasture		- 20		31			
TOTAL FEED COSTS		14,45	11.48	20.42			
Net increase in val.per cwt. hogs prod.		\$18.16	\$20.07	\$17.22			
RETURNS ABOVE FEED COST PER CWT.HOGS PRO	D	3-71	8.59	-3.20			
RETURNS FOR \$100 OF FEED \$		\$ 135	\$ 179	\$ 85			
Price received per cwt. hogs sold \$	 	\$19.48	\$19.85	\$19.07			
No. of spring litters raised		8.3	6.7	6.8			
No. of fall litters raised		2.6					
Total No. of litters raised		10.9	1.9 8.6	1.7 8.5			
No. of pigs born per litter	,	8.2	8.2	g.6.			
No. of pigs weaned per litter		6.3	6.5	6.3			
Pounds of hogs produced	· · · · · · · · · · · · · · · · · · ·	19200	15451	13558			

DAIRY AND DUAL PURPOSE CATTLE

The quantity of feed consumed, value of feeds and returns from dairy and dual purpose cattle are presented in Tables 24, 25 and 26. Forty herds were classified as dairy cattle and 5 herds were classified as dual purpose cattle. The return over feed cost per cow varied from \$-70.32 to \$179.96 among the 45 dairy herds.

Table 24. Factors of Cost and Ret			15 herds	15 herds
		Average	highest in	
	Your		butterfat	lowest in
Items	farm			butterfat
2 4 0 11 3	Tarm	herds	per cow	per cow
Pounds of butterfat per cow		206	271	137
% butterfat in milk			4.0	3.6
Price rec. per 1b. B.F. sold (cents)		77.1	76.5	75•7
Feeds per cow, lbs:			, , , , , , , , , , , , , , , , , , , ,	
Corn		1264	1162	2011
Small grain		678		1011
Commercial feeds	***************************************		882	474
Commercial leeds		166	280	72
Legume hay	•	3568	4504	3 ⁴ 55
Other hay		1085	1151	987
Fodder and stover		मेम्	888	-
Total concentrates		2108	2324	1557
Total hay and fodder			6543	1557 1111 2
	-	5097 7070		
Silage		3939	3674	4297
Total digestible nutrients*		4681	5592	4165
T.D.N. per 1b. B.F.		22.7	20.6	30.4
% T.D.N. that is protein		13.9	14.5	13.5
Feed cost per cow:				
Concentrates	\$	\$ 56 . 99	\$ 62 . 79	\$40.68
Roughages	T	51.51	62.25	47.85
Pasture	` 		-	
TOTAL FRED COSTS	<u> </u>	7.61	8.93	7.57
TOTAL FALD COSTS	Ψ	116.11	133.97	96.10
Value of produce per cow:	,			
Dairy product sales	\$	\$136.99	\$184.25	\$ 88.99
Dairy produce used in house		17.20	18.76	17,00
Milk to livestock		22.05	28.75	19.54
Net increases in value of cows	the state of the s	1.47	-6.15	8.78
TOTAL VALUE PRODUCED	\$	177.71	225.61	134.31
RETURNS ABOVE FEED COST PER COW	\$	61.60	91.64	38.21
RETURNS FOR \$100 OF FEED	\$	\$ 163	\$ 174	\$ 150
Feed cost per 1b. B.F. (cents)	•	56.4	49.4	70.1
		-		
Number of cows**	·	6.9	6.1	6.8

^{*}Not including nutrients received from pasture.

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

Table 25. Feed Costs and Returns from Oth	The second	14 herds	15 herds
	www.verage	highest in	lowest in
Your	- 1 M	butterfat	butterfat
Items farm	W. 3	per cow	per cow
Feeds per head, lbs.:	na bell e nelse	por cow	per cow
Concentrates		417	939
Hay and fodder	1668	1694	1890
Silage	1052	791	1037
Skim milk	_ 10)2 _ 775	1014	378
Whole milk	201	175	295
Feed cost per head:	#nn n=	\$30 77	en): na
Concentrates \$	\$20.03	\$10.77	\$24.18
Roughages	16.02	15.12	17.38
Milk	9.41	10.53	10.10
Pasture	2.87	3.49	2,68
TOTAL FEED COSTS PER HEAD \$	48.33	39-91	54.34
Net inc. in value of other dairy cattle	107.50	95-19	126.58
RETURNS ABOVE FEED COST PER HEAD	_ 59•17	55 .28	72.24
RETURNS FOR \$100 OF FEED	_ \$ 262	\$ 271	\$ 278
Number of head of other dairy cattle	8.8	7•5	9.4
Table 26. Feed Costs and Returns From All	Dairy and Dual		
	Amanana	15 herds	15 herds
Your	Average of 45	highest in butterfat	lowest in
Items farm	herds		butterfat
Freeds per animal unit, lbs.:	Herds	per cow	per cow
Concentrates	7.01.7	3756	3 770-
Hay and fodder	_ 1941	1756	1793
	4334	5189	4025
Silage	_ 3418	2963	3546
Feed cost per animal unit: Concentrates \$	\$51.49	the Ca	س س
The state of the s	- 421.49	\$47.68	\$42.88
Roughages		49.24	42.94
Pasture	6.95	8.05	6.78
TOTAL FEED COST -\$	_ 102.84	104.97	92.60
Value of produce per animal unit:			
Dairy products	_ 103.49	136.35	66. 8 1
Net increase in val. of dairy cattle	78.64	70.52	93.05
	182.13	206.87	159.86
TOTAL VALUE \$			
TOTAL VALUE \$	_ 79.29	101.90	67.26
	-	101.90 \$ 204	67.26 \$ 192

^{*}One farmer had both a milking herd and a beef herd, used a beef bull, and included all the young stock in the beef herd.

Some of the important factors that affected the return over feed were:

- 1. Rate of production (pounds of butterfat per cow).
- 2. Price received for butterfat.
- 3. Feeding efficiency (pounds T.D.N. fed per pound of butterfat).
 4. Quality of ration (percentage of protein in T.D.N.).
- 5. Economy of ration (feed cost per pound butterfat).

Table 28. Feed Costs and Returns from Chickens, 1951

Items Feed per hen, lbs.: Grain Commercial feeds Total concentrates	Your farm	Average of 50 farms 106 35 141	12 farms highest in returns above feed 106 36 142	12 farms lowest in returns above feed 144
Skim milk and buttermilk		6	7	-19,
TOTAL FEED COST PER HEN	\$	\$1 .30	\$4.34	\$5.09
Value of produce per hen: Eggs sold and used in house Net increase in value of chicks TOTAL VALUE PRODUCED	\$ens\$	\$5.29 <u>.42</u> 5.71	\$6.58 <u>.91</u> 7.50	\$5.04 03 5.01
RETURNS ABOVE FEED COST PER HEN	\$	1.41	3.13	.08
RETURNS FOR \$100 OF FEED	\$	\$ 138	\$ 179	\$ 99
Price rectd. per doz. eggs sold(cen Eggs laid per hen	ts)	39. ⁴ 162	41.2 193	39•5 153
Ave. no. of hens on farm during the % of hens that are pullets % of death loss of hens	yr	189 76 15	235 88 11	163 73 20
Number of chicks bought: Straight run Pullets Cockerels		87 181 - 25	54 312 38	91 157 8
Pounds of poultry produced		934	1482	654

Some of the important factors that affected the return over feed were:

^{1.} Quantity of feed required per hen

^{2.} Price received per dozen eggs sold

^{3.} Eggs laid per hen
4. Per cent of hens that are pullets

^{5.} Percentage death loss of hens

Seed per 100 chicks raised, lbs.; Grain 1846			Average
tems		Your	of 10
Table 30. Feed Cost and Returns from Laying Hems. 1946 1951 19	Items		
Crain			
Commercial feeds	· · · · · · · · · · · · · · · · · · ·		1846
## Total concentrates 2674 94			
Skim milk	The state of the s	-	
State Stat	· · · · · · · · · · · · · · · · · · ·		• •
Set increase in val. per 100 chicks Seturn over feed cost per 100 chicks Seturn for \$100 of feed Straight run Cockerels Pullets Straight run Cockerels Ser cent death loss Sumber chicks raised Ser cent death loss Sumber chicks raised Ser cent death loss Ser cent death	Skim milk		94
Set increase in val. per 100 chicks Seturn over feed cost per 100 chicks Seturn for \$100 of feed Straight run Cockerels Pullets Straight run Cockerels Ser cent death loss Sumber chicks raised Ser cent death loss Sumber chicks raised Ser cent death loss Ser cent death			
Actumn over feed cost per 100 chicks -25.31			
Steam for \$100 of feed	· · · · · · · · · · · · · · · · · · ·	****	
Straight run	Return over feed cost per 100 chicks		-25. 31
Straight run	the state of the s		
Pullets Straight rum Cockerels 23 Price paid per 100 chicks bot: Pullets Straight rum Cockerels Pullets Straight rum Cockerels Price paid per 100 chicks bot: Pullets Straight rum Cockerels Per cent death loss Sumber chicks raised Price rec'd per pound sold (cts.) Pounds of poultry produced Table 30. Feed Cost and Returns from Laying Hens, 1951 Table 30. Feed Cost and Returns from Laying Hens, 1951 Table 30. Feed Cost and Returns from Laying Hens, 1951 Strain Commercial feeds Total concentrates Skim milk Potal feed cost per hen Pages sold and used in home Less depreciation and death loss Total value produced Strain strain Total value produced Strain Total value produced Strain strain Total value produced Stra	Return for \$100 of feed		\$ 72
Pullets Straight rum Cockerels 23 Price paid per 100 chicks bot: Pullets Straight rum Cockerels Pullets Straight rum Cockerels Price paid per 100 chicks bot: Pullets Straight rum Cockerels Per cent death loss Sumber chicks raised Price rec'd per pound sold (cts.) Pounds of poultry produced Table 30. Feed Cost and Returns from Laying Hens, 1951 Table 30. Feed Cost and Returns from Laying Hens, 1951 Table 30. Feed Cost and Returns from Laying Hens, 1951 Strain Commercial feeds Total concentrates Skim milk Potal feed cost per hen Pages sold and used in home Less depreciation and death loss Total value produced Strain strain Total value produced Strain Total value produced Strain strain Total value produced Stra	•		
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Cockerels 23 25 25 25 25 25 25 25	Straight run		69
### Pullets		to compression of the state of	_
Pullets \$35.09 Straight run 23.52 Cockerels 23.52 Cockerels 23.52 Cockerels 23.52 Cockerels 23.52 Cockerels 23.62 Cockerels 23.62 Cockerels 22.3 Counds of poultry produced 23.52 Counds of poultry produced 24.52 Counds of poultry produced 25.52 Counds of poultr	• • • • • • • • • • • • • • • • • • • •	•	ر
Straight run			\$35.09
Cockerels er cent death loss Sumber chicks raised Price rec'd per pound sold (cts.) Price rec'd per hen stand Returns from Laying Hens, 1951 Average Your of 15 Farm flocks Farm flocks Farm flocks Forain Commercial feeds Total concentrates Skim milk Cotal feed cost per hen Price produce per hen: Eggs sold and used in home Less depreciation and death loss Total value produced Return above feed cost per hen Return above feed cost per hen Return for \$100 of feed Return for \$100 of feed Return for \$100 of feed Return no, hens on farm during year No. of hens on hand beginning of year Seath loss			
Per cent death loss Number chicks raised Price rec'd per pound sold (cts.) Pounds of poultry produced Table 30. Feed Cost and Returns from Laying Hens. 1951 Average Your of 15 tems Peed per hen, lbs.: Grain Commercial feeds Total concentrates Skim milk Potal feed cost per hen Fags sold and used in home Less depreciation and death loss Total value produced Return above feed cost per hen Father of \$1.94 Return for \$100 of feed		·····	£J+9£
Number chicks raised Price rec'd per pound sold (cts.) Pounds of poultry produced Table 30. Feed Cost and Returns from Laying Hems, 1951 Average Your of 15 farm flocks Peed per hen, lbs.: Grain Commercial feeds Total concentrates Skim milk Potal feed cost per hen Eggs sold and used in home Less depreciation and death loss Total value produced Return for \$100 of feed Return for \$100 of feed Regs laid per hen Price rec'd per doz. eggs sold (cts.) Reserved Return of hems on hand beginning of year Red (cts.) Red (cts.) Return cost hems on hand beginning of year Red (cts.) Return cost hems on hand beginning of year Red (cts.)	AO CUGI GIB		
Number chicks raised Price rec'd per pound sold (cts.) Pounds of poultry produced Table 30. Feed Cost and Returns from Laying Hems, 1951 Average Your of 15 farm flocks Peed per hen, lbs.: Grain Commercial feeds Total concentrates Skim milk Potal feed cost per hen Eggs sold and used in home Less depreciation and death loss Total value produced Return for \$100 of feed Return for \$100 of feed Regs laid per hen Price rec'd per doz. eggs sold (cts.) Reserved Return of hems on hand beginning of year Red (cts.) Red (cts.) Return cost hems on hand beginning of year Red (cts.) Return cost hems on hand beginning of year Red (cts.)	Pan aant dooth laga	: •	77 G
Price rec'd per pound sold (cts.) 22.3 Pounds of poultry produced Table 30. Feed Cost and Returns from Laying Hens, 1951 Average Your of 15 farm flocks Teed per hen, lbs.: Grain Commercial feeds Total concentrates Skim milk Potal feed cost per hen Eggs sold and used in home Less depreciation and death loss Total value produced Return above feed cost per hen Return above feed cost per hen Return for \$100 of feed			
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Grain Commercial feeds Total concentrates Skim milk Cotal feed cost per hen Stalue of produce per hen: Eggs sold and used in home Less depreciation and death loss Total value produced Staturn above feed cost per hen Staturn for \$100 of feed	[tems : Description of the content o	farm	flocks
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Total concentrates Skim milk State milk State of produce per hen Eggs sold and used in home Less depreciation and death loss Total value produced State of produ	Grain		01
Skim milk Sotal feed cost per hen Salue of produce per hen: Eggs sold and used in home Less depreciation and death loss Total value produced Seturn above feed cost per hen Seturn for \$100 of feed Segs laid per hen Price rec'd per doz. eggs sold (cts.) We. no. hens on farm during year Sold death loss Seturn for \$209 Sold feed S	The state of the s		
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Value of produce per hen: Eggs sold and used in home Less depreciation and death loss Total value produced State of the	Commercial feeds Total concentrates		_ <u>23</u> 110
Value of produce per hen: Eggs sold and used in home Less depreciation and death loss Total value produced State of the	Commercial feeds Total concentrates		_ <u>23</u> 110
Eggs sold and used in home Less depreciation and death loss Total value produced State of the field of feed State of feed of the field of feed State of feed of the field of feed State of feed of the field of feed of fee	Commercial feeds Total concentrates Skim milk		_ <u>23</u> 110 6
Eggs sold and used in home Less depreciation and death loss Total value produced State of the field of feed State of feed of the field of feed State of feed of the field of feed State of feed of the field of feed of fee	Commercial feeds Total concentrates Skim milk		
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Total value produced Solve. no. hens on hand beginning of year	Commercial feeds Total concentrates Skim milk Total feed cost per hen Value of produce per hen:		_23 110 6 \$ 3.25
Return above feed cost per hen Return for \$100 of feed Reggs laid per hen Price rec'd per doz. eggs sold (cts.) Reggs laid per hen Price rec'd per doz. eggs sold (cts.) Reggs laid per hen Price rec'd per doz. eggs sold (cts.) Reggs laid per hen 209 209 200 206 206 206 207 208 208 209 209 200 200 200 200	Commercial feeds Total concentrates Skim milk Total feed cost per hen Value of produce per hen: Eggs sold and used in home		23 110 6 \$ 3.25 \$ 5.68
leturn for \$100 of feed \$160 legs laid per hen \$169 Price rec'd per doz. eggs sold (cts.) \$40.6 less no. hens on farm during year \$209 lo. of hens on hand beginning of year \$256 death loss \$160	Commercial feeds Total concentrates Skim milk Total feed cost per hen Value of produce per hen: Eggs sold and used in home Less depreciation and death loss		23 110 6 \$ 3.25 \$ 5.68 49
leturn for \$100 of feed \$160 legs laid per hen \$169 Price rec'd per doz. eggs sold (cts.) \$40.6 less no. hens on farm during year \$209 lo. of hens on hand beginning of year \$256 death loss \$160	Commercial feeds Total concentrates Skim milk Total feed cost per hen Value of produce per hen: Eggs sold and used in home Less depreciation and death loss		23 110 6 \$ 3.25 \$ 5.68
ggs laid per hen Price rec'd per doz. eggs sold (cts.) 40.6	Commercial feeds Total concentrates Skim milk Total feed cost per hen Value of produce per hen: Eggs sold and used in home Less depreciation and death loss Total value produced		\$ 3.25 \$ 5.68 49 5.19
rice rec'd per doz. eggs sold (cts.) 40.6	Commercial feeds Total concentrates Skim milk Cotal feed cost per hen Value of produce per hen: Eggs sold and used in home Less depreciation and death loss Total value produced Return above feed cost per hen		\$ 3.25 \$ 5.68 \$49 5.19
ve. no. hens on farm during year lo. of hens on hand beginning of year death loss	Commercial feeds Total concentrates Skim milk Cotal feed cost per hen Value of produce per hen: Eggs sold and used in home Less depreciation and death loss Total value produced Return above feed cost per hen Return for \$100 of feed		\$ 3.25 \$ 5.68 \$49 5.19 \$ 1.94 \$ 160
o. of hens on hand beginning of year 256 death loss 17	Commercial feeds Total concentrates Skim milk Total feed cost per hen Value of produce per hen: Eggs sold and used in home Less depreciation and death loss Total value produced Return above feed cost per hen Return for \$100 of feed Eggs laid per hen		\$ 3.25 \$ 5.68 \$49 5.19 \$ 1.94 \$ 160 169
death loss	Commercial feeds Total concentrates Skim milk Cotal feed cost per hen Value of produce per hen: Eggs sold and used in home Less depreciation and death loss Total value produced Return above feed cost per hen Return for \$100 of feed Eggs laid per hen Price rec'd per doz. eggs sold (cts.)		\$ 3.25 \$ 5.68 \$49 5.19 \$ 1.94 \$ 160 169 40.6
death loss	Commercial feeds Total concentrates Skim milk Notal feed cost per hen Value of produce per hen: Eggs sold and used in home Less depreciation and death loss Total value produced Return above feed cost per hen Return for \$100 of feed Eggs laid per hen Price rec'd per doz. eggs sold (cts.) Ave. no. hens on farm during year		\$ 3.25 \$ 5.68 \$49 5.19 \$ 1.94 \$ 160 169 40.6
	Commercial feeds Total concentrates Skim milk Cotal feed cost per hen Value of produce per hen: Eggs sold and used in home Less depreciation and death loss Total value produced Return above feed cost per hen Return for \$100 of feed Eggs laid per hen Price rec'd per doz. eggs sold (cts.)		\$ 3.25 \$ 5.68 \$49 5.19 \$ 1.94 \$ 160 169 40.6
	Commercial feeds Total concentrates Skim milk Cotal feed cost per hen Value of produce per hen: Eggs sold and used in home Less depreciation and death loss Total value produced Return above feed cost per hen Return for \$100 of feed Eggs laid per hen Price rec'd per doz. eggs sold (cts.) Ave. no. hens on farm during year		\$ 3.25 \$ 5.68 \$49 5.19 \$ 1.94 \$ 160 169 40.6

	Your	Average of
Items	farm	ll farms
Feed per animal unit, lbs.:	, , , , , , , , , , , , , , , , , , , ,	
Concentrates		1933
Legume hay		2812
Other hay		1816
Fodder and stover	-	1010
Silage		4033
Feed cost per animal unit:		, ccor
Concentrates	ė	\$ 45.99
	4	
Roughages		45.75
Milk*		2.96
Pasture	-	<u>8.62</u>
Total feed cost		103.32
Value of produce per animal unit:		
Dairy products	\$	\$ 3.49
Net increase in value of beef cattle	e	202.07
Total value produced		205.56
leturn over feed cost per animal unit	\$	102.24
Return for \$100 of feed	\$	\$ 203
Number of cows and herd bulls		11.3
Number of animal units		13.0
Counds of beef produced		6449
From the dairy herd		
From the dairy herd Table 32. Feed Costs and Returns From		
Table 32. Feed Costs and Returns From	Your	Average o
Table 32. Feed Costs and Returns From		tle, 1951 Average o
Table 32. Feed Costs and Returns From tems 'eeds per cwt. beef produced, lbs.;	Your	Average o
Table 32. Feed Costs and Returns From tems Teeds per cwt. beef produced, lbs.: Corn	Your	Average o g farms
Table 32. Feed Costs and Returns From tems Teeds per cwt. beef produced, lbs.: Corn Small grain	Your	Average of grams
Table 32. Feed Costs and Returns From tems Teeds per cwt. beef produced, lbs.; Corn Small grain Commercial feeds	Your	Average o 8 farms 600 13 46
Table 32. Feed Costs and Returns From tems Teeds per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay	Your	Average of grants
tems Teeds per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay Other hay	Your	Average o 8 farms 600 13 46 432
Table 32. Feed Costs and Returns From tems Teeds per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay	Your	Average o 8 farms 600 13 46
Table 32. Feed Costs and Returns From tems Teeds per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay Other hay Fodder and stover	Your	Average of 8 farms 600 13 46 432 - 22
Table 32. Feed Costs and Returns From tems Teeds per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay Other hay	Your	Average of 8 farms 600 13 46 432

16.63

11.60

32.62

32.77

17.0

8331

175

Concentrates Roughages Pasture

BEEF PRODUCED RETURNS FOR \$100 OF FEED

No. of animal units

Pounds of beef produced

Price rec'd per cwt. beef sold

Price paid per cwt. beef bought

Feed cost per cwt. beef produced:

TOTAL FEED COSTS Net increase in value of feeders RETURNS ABOVE FEED COST PER CWT.

Table 33. Feed Costs and Returns from a Farm Flock of Sheep. 195

TADLE 33. Feed	l Costs and Keturns from			·····
		Your	Average of	
Items		farm	ll farms	
Feed per hea				
Concent			167	
Legume			403	
Other 1	*		167	
Fodder	and stover		₩	
Silage	·		147	
Feed cost pe	er head:			
Concent	trates	\$	\$ 4.10	
Roughae	ges	·	4.81	
Pasture	_		1.11	
	PAL FEED COSTS		10.02	
	oduce per head:	٠.	_	
Wool		\$	\$ 5.63	
	crease in value of shee	р	15.41	
TO	PAL VALUE PRODUCED	·	21.04	
			.	
RETURNS ABOV	VE FEED COST PER HEAD	*	\$11.02	
RETURNS FOR	\$100 OF FEED	\$	\$ 291	
		•	·.	
-	rt. of lambs sold	\$	\$ 29 . 73	
Price per 11	b. wool sold (cents)	*	89.5	
Pounds of wo	ool per sheep sheared	della conservation processed	8.2	
Number of e	wes kept for lambing		32	
% lamb crop			118	
% death loss			8.2	
•	neep produced		2737 .	
No. of head			56.9	
	· · · · · · · · · · · · · · · · · · ·	Additional transfer of the second	J-4J	

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

Table 34. Summary of Farm Inventories by Years Number of farms \$438 \$685 \$828 Dairy and dual purpose cows \$702 **\$111**8 Other dairy & dual purpose cattle Beef cattle (inc. feeders) Hogs Sheep 26g Poultry Productive livestock (total) Horses Crop, seed, & feed Power mach. (farm share) Crop and general mach. (farm share Livestock equipment & supplies Mach. & equipment (total) Miscellaneous Buildings, fences, etc. Land Total farm capital

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

Table 35. Summary of Farm Earnings by Years Monthly charge for unpaid family labor \$ 121 \$ 129 \$ 125 \$ 128 Monthly charge for board to hired labor FARM RECEIPTS Dairy and dual-purpose cows \$ 304 \$ 173 \$ 279 Dairy products Other dairy & dual purpose cattle Beef cattle Hogs Sheep and wool Poultry Eggs Horses 8. Com Small grain Other crops 28H Machinery & equip, sold Agricultural adjustment payments Income from work off the farm Miscellaneous (1) Total farm sales (2) Increase in farm capital (3) Family living from the farm (4) Total farm receipts (1)+(2)+(3) FARM EXPENSES Dairy and dual purpose cows bought \$ 140 \$ 112 \$ 212 \$ 210 Other dairy and dual-pur. cattle bought Beef cattle bought Hogs bought Sheep bought Poultry bought Horses bought g Misc. livestock expense Misc. crop expenses Feed bought 664 Custom work hired **21** Mech. power mach. (farm share) (new) Mech. power mach. (farm share) (upkeep) Mech. power (f. share) (gas, oil, etc.) Crop and general mach. (new) Crop and general mach. (upkeep) Livestock equipment (new) 41 Livestock equipment (upkeep) Buildings and fencing (new) Buildings and fencing (upkeep) Hired labor Taxes General farm and insurance (5) Total farm purchases (6) Decrease in farm capital (7) Interest on farm capital (8) Unpaid family labor (9) Board furnished hired labor (10) Total farm exp. (sum of (5) to (8) (11) Oper. labor earnings (4) - (10)

1947	1948	1949	1950	1951
· .				
16.2	16.4	24.3	18,6	20.9
11.2	15.1	9.4	15.0	15.3
39•3	43.3	47.1	43.6	39.8
9,6	10.3	7.3	7.7	9.8
4.0	5,1	2.1	2,8	
80.3	90.2	90.2	87.7	<u>.3</u> 86.1
47.4	47.8	55,9	53.4	56.5
7.5	7.2			12.7
	3.9		4.4	4.7
58.0	58.9	67.1	67.8	73-9
4.0	6.5	6.0	11.0	13.6
2.1	4.0	2.3	3.1	3.0
6.1	10.5	8.3	14.1	16.6
3-9	5.6	7.3	6.2	6.9
_5.9	.8		3.6	4.6
154.2	166.0	174.3	179.4	188.1
6.5	6.8	8.7	3.8	7.1
15.6	21.0	18.3	17.0	17.2
28.1	22.7	22.1	23.2	22.2
204,4	216.5	223.4	223.4	234.6
1				
*.				
10.1	12.5	9.6	9.8	9.3
	25 . 1	20.3	28.1	22.2
26.0	36.0		34.8	42.5
14.4	14.5	13.4	12.1	15.4
27.2	46.2	38.0	35.8	33.4
5.6	8.2	7.8	7.9	6.3
13.0	17.5	13.9	11.7	15.3
1.9	2.3	2.0	1.8	2.2
,)	2.5	240	~ * <i>C</i>
	1947 16.2 11.2 39.3 9.6 80.3 47.4 7.5 3.1 58.0 4.0 2.1 6.1 3.9 154.2 6.5 28.1 204.4 27.2 5.6	1947 1948 16.2 16.4 11.2 15.1 39.3 43.3 9.6 10.3 4.0 5.1 80.3 90.2 47.4 47.8 7.5 7.2 3.1 3.9 58.0 58.9 4.0 6.5 2.1 4.0 6.1 10.5 3.9 5.6 5.9 8 154.2 166.0 6.5 6.8 15.6 21.0 28.1 22.7 204.4 216.5 10.1 12.5 19.9 25.1 26.0 36.0 14.4 14.5 27.2 46.2 5.6 8.2 13.0 17.5	1947 1948 1949 16.2 16.4 24.3 11.2 15.1 9.4 39.3 43.3 47.1 9.6 10.3 7.3 4.0 5.1 2.1 80.3 90.2 90.2 47.4 47.8 55.9 7.5 7.2 7.3 3.1 3.9 3.9 58.0 58.9 67.1 4.0 6.5 6.0 2.1 4.0 2.3 6.1 10.5 8.3 3.9 5.6 7.3 5.9 8 1.4 154.2 166.0 174.3 6.5 6.8 8.7 15.6 21.0 18.3 28.1 22.7 22.1 204.4 216.5 223.4 10.1 12.5 9.6 19.9 25.1 20.3 26.0 36.0 31.3 14.4 14.5 13.4 27.2 46.2 38.0 5.6 8.2 7.8 13.0 17.5 13.9	16.2 16.4 24.3 18.6 11.2 15.1 9.4 15.0 39.3 43.3 47.1 43.6 9.6 10.3 7.3 7.7 4.0 5.1 2.1 2.8 80.3 90.2 90.2 87.7 47.4 47.8 55.9 53.4 7.5 7.2 7.3 10.0 3.1 3.9 3.9 4.4 58.0 58.9 67.1 67.8 4.0 6.5 6.0 11.0 2.1 4.0 2.3 3.1 6.1 10.5 8.3 14.1 3.9 5.6 7.3 6.2 5.9 8 1.4 3.6 154.2 166.0 174.3 179.4 6.5 6.8 8.7 3.8 15.6 21.0 18.3 17.0 28.1 22.7 22.1 23.2 204.4 216.5 223.4 223.4 10.1 12.5 9.6 9.8 19.9 25.1 20.3 28.1 26.0 36.0 31.3 34.8 14.4 14.5 13.4 12.1 27.2 46.2 38.0 35.8 5.6 8.2 7.8 7.9 13.0 17.5 13.9 11.7

Table 37. Summary of M	Siscellane	ous Items	by Years		
	1947	1948	1949	1950	1951
MEASURES OF FARM ORGANIZATION AND MANAG	EMENT EFF	FICIENCY	Statistics .	\$ 8 G	•
% high return crops	45•5	41.1	44.1	45.3	48.0
A.U. Livestock per 100 A.*	6.7	9.8	9.6	11.2	17.9
No. of work units	231	314	315	332	366
Work units per worker	165	209	225	255	261
Expenses per work unit	\$7.04	\$7.09	\$7.11	\$7.31	\$7.45
AMOUNT OF LIVESTOCK			•		
No. of milk cows	3.2	4.9	4.5	4.7	5.3
No. of other dairy cattle	3.3	6.4	5.8	5•9	5.3 6.4
No. of head of sheep	6.7	7.6	4.4	9.4	10.8
No. of hens	102	157	160	154	
Lbs. hogs produced	7093	9865	11727		-
No. of litters of hogs raised	5.2	6.4	8.4	12.2	
No. of horses	•9	1.2	.8	•5	•5
PRODUCTION PER UNIT OF LIVESTOCK	,			•	,
	206	212	216	223	206
Lbs. B.F. per dairy cow	205	157		168	
Lbs. B.F. per dual purpose cow	6.1		6.2		_
Pigs weaned per litter	146		162		162
No. eggs laid per hen		153			
Lbs. wool per sheep sheared	9.5	7.6	8.5		
% lamb crop	129	97	111	115	118
PRICE RECEIVED PER					
Lb. B.F. sold (cts.)	80.6	87.8			77.1
Cwt. hogs sold	\$24.22	\$22.88	\$ 17.23		
Cwt. beef sold	. 22.26	28.64	. 22.06	. 25•80	32.62
Cwt. lambs sold	21.85	22.87	21.49		29.73
Lb. wool sold (cts.)	35•4	42.8	39•3	47•9	
Doz. eggs sold (cts.)	37.8	40.1	38.6	30.6	39.4
RETURN ABOVE FEED COST PER	,			•	
Dairy cow	\$62.51	\$104.88	\$ 56.74	\$56.79	\$61.60
Dual purpose cow	33.70	69.91	48.37	37.10	**
Animal unit in beef breeding herd	JJ • 1 •	78.55	22.37		102.24
Cwt. feeder cattle produced	5.12	8.24	9•99	8.71	11.60
Cwt. hogs produced	6.97	6.23	4.35	5•75	3.71
Head of sheep	7.76	7.16	7.01	11,48	11.02
Hen	.66	1.72	2.25	. 65	1.41
	*			•	*
FEED COST PER		*#334 00	\$330.7 0	\$114.69	\$116.11
Dairy cow	\$117.53	\$118.02	\$110.78	102.47	** ATTO*TT
Dual purpose cow	140.06	108.59	82.71		• •
An. unit in beef breeding herd	-	75 • 93	58.19	81.54	103.32
Cwt. feeder cattle produced	18.23	30.03	15.48	20.29	2 2. 96
Cwt. hogs produced	17.19	14.76	10.71	12.30	14.45
Head of sheep	8.15	5•73	4.45	5.74	10.02
Hen	5.18	4.00	3.67	3.98	4.30
Horse	43.67	33.12	32,64	39•74	29.47

^{*} The animal unit equivalents were changed in 1951
** Combined with dairy cows