

The World's Largest Open Access Agricultural & Applied Economics Digital Library

# This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.

Help ensure our sustainability.

Give to AgEcon Search

AgEcon Search http://ageconsearch.umn.edu aesearch@umn.edu

Papers downloaded from **AgEcon Search** may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.

### UNIVERSITY OF MINNESOTA Department of Agriculture and

# UNITED STATES DEPARTMENT OF AGRICULTURE Bureau of Agricultural Economics

and the

County Extension Services of Brown, Cottonwood, Faribault, Jackson, Lincoln, Lyon, Martin, Murray, Nobles, Redwood and Watonwan Counties and the

Southwest Minnesota Farm Management Association Cooperating

---0---

Annual Report of the Southwestern Minnesota Farm Management Service 1940

- - -0 - - -

Cooperator:

Mimeographed Report No. 121 Division of Agricultural Economics University Farm St. Paul, Minnesota April 1941

800 4-41

First Annual Report of the Southwest Minnesota Farm Management Service of Brown, Cottonwood, Faribault, Jackson, Lincoln, Lyon, Martin, Murray, Nobles, Redwood, and Watonwan Counties for the Year 1940

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

INDEX

Introduction
Summary of Farm Inventories
Amount of Livestock
Summary of Farm Earnings (Cash Statement) 6
Summary of Farm Earnings (Enterprise Statement)
Analysis of the Reasons for Differences in Operator's Earnings . 8
Effect of Well Balanced Efficiency on Operator's Earnings 10
Measures of Farm Organization and Management Efficiency 12
Thermometer Chart
Distribution of Acres in Farm
Yield of Crops
Feed Costs and Returns from Dairy Cows
Feed Costs and Returns from Other Dairy Cattle
Feed Costs and Returns from All Dairy Cattle
Feed Costs and Returns from Dual Purpose Cows
Feed Costs and Returns from other Dual Purpose Cattle 19
Feed Costs and Returns from All Dual Purpose Cattle 19
Feed Costs and Returns from the Beef Breeding Herd 20
Feed Costs and Returns from Feeder Cattle
Feed Costs and Returns from Sheep - Farm Flock
Feed Costs and Returns from Sheep - Feeders
Feed Costs and Returns from Hogs
Feed Costs and Returns from Chickens
Feed Costs and Returns from Turkeys
Feed Costs for Horses and Other Power Expense Items 23
Farm Produce Used in House and House Rental
Household and Personal Expenses
Miscellaneous Information - Averaged by Counties

INTRODUCTION

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

Note: Assistance in the preparation of this material was furnished by workers supplied on N.Y.A. Student Work Project No. 0061-100. Sponsor: University of Minnesota. The analysis of the records and the preparation of the reports is handled by the Division of Agricultural Economics under the Direction of G. A. Pond, T. R. Nodland, and G. E. Toben. Field organization is handled by the Extension Division with S. B. Cleland and J. B. McNulty in charge of this work. Ross Huntsinger has been fieldman since the organization of the project. At the end of the year A. W. Anderson and Max Hinds of the Division of Agricultural Economics aided in closing the records. County Agricultural extension agents who cooperate in this project include Paul Kunkel, E. C. Rogers, C. G. Gaylord, L. S. Orfield, T. G. Fuller, F. J. Meade, C. G. Powell, A. B. Hagen, C. E. Stower, J. I. Swedberg, and J. R. Gute.

liter \_ 2 from the second second

The officers for the Southwest Farm Management Association for 1940 were:

President, W. E. Jones, Marshall, Lyon County Vice President, Porter Olstad, Hanska, Brown County Secretary-Treasurer, E. F. Oberg, Hadley, Murray County

The board of directors include these officers and also the following: Earl Ewen, Cottonwood County; Ed Stevermer, Faribault County; George Rentschler, Jackson County; Joe Boulton, Lincoln County; Paul H. Peters, Martin County; Gordon Fresk, Murray County; Bedford Ludlow, Nobles County; Thomas Hicks, Redwood County; and Duane Drake, Watonwan County.

The following tabulation shows by counties the numbers of members who completed records in 1940:

Brown	14	Lincoln	9	Nobles	21
Cottonwood	15	Lyon	12	Redwood	21
Faribault	22	Martin	16	Watonwan	_11
Jackson	20	Murray	14	Total	175

The tables on page 4 and succeeding pages show 165 farms. Ten farms have been omitted from all of the averages in the tables because they differed so widely in type from the others or were not sufficiently complete for a full analysis.

#### TYPE OF FARMING\*

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

#### TOPOGRAPHY SOILS AND WEATHER

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

The year 1940 as a whole was normal in regard to temperatures. Unfavorable weather conditions in the early spring delayed the seeding of small grain; however the growing conditions in May and June were favorable. Corn was injured to some extent by hot, dry weather in the latter part of July. Weather conditions in September and October were very favorable for late crops and pasture. The first killing frost occurred about October 15.

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

		Table 1.		y and Annu				
		ington		mont		<u>Ulm</u>	and the second se	d Falls
		- Depart-		- Depart-		- Depart-		- Depart-
en e	tation	ure from	tation	ure from	tation	ure from	tation	ure from
		normal		normal		normal		normal
	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches
January	Trace	-0.63	0.23	-0.57	0.72	-0.41	0.13	-0.60
February	.82	+0.05	0.70	-0.27	1.56	+0.50	0.80	-0.07
March	1.96	+0.70	1.35	-0.06	3.50	+1.89	1.93	+0.68
April	2.75	+0.67	1.57	-0.66	1,90	-0.29	1.63	-0.30
May	1.20	-2.74	2,12	-1.93	1.66	1.91	2.48	-0.38
June	5.67	+1.38	4.84	+0.50	7.32	+2.67	4.75	+0.26
July	. 34	-3.05	0.60	-2.96	0.52	-3.16	0.91	-2.13
August	2.77	-0.99	8.80	+5.06	10.07	+6.52	7.18	+4.20
September	.70	-2.84	1.41	-2.22	1.05	-2.54	0.49	-2.37
October	2.81	+1.12	3.38	+1.53	4.63	+2.47	2.77	+1.10
November	2.72	+1.55	2.56	+1.05	2.45	+1.14	1.80	+0,59
December	<u> </u>	+3.15	1.16	+0.26	1.52	+0.62	1.08	0.00
1940 Total	22,50	-4.63	28.72	-0.27	36.90	+7.50	25.95	+0.98
1939 Total	24.27	-2.86	21.92	-7.07	23.04	-6.36	18.52	-6.45
1938 Total	40.50	+13.37	39.99	+11.00	29.98	+0.58	26,84	+1.87
Normal Annual	, 1 - m.	•	t <sup>a</sup> konstration.					
Prec.	27.13		28,99	· •	29.40		24.97	
anta interna estas Anta composito de la composito		· · · · ·				·		

# RECORDS KEPT

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

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

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

Items	farm of	verage 33 mc f 165 profi arms farms	table profita
Size of farm (acres) Size of business (work units)*	and a second		402 236 774 457
Horses Productive livestock (total) Dairy and dual purpose cows Other dairy & dual purpose cattle Beef cattle (including feeders) Hogs Sheep (including feeders) Poultry (including turkeys) Crop, seed, and feed Mach. & equipment (total) Power mach. (f. share) Crop & gen. mach. (f. share) Livestock equip. & supplies Buildings, fences, etc. Land	6	,497 5,7 574 374 1,530 3 550 327 142 ,616 5,6 ,658 3,6 998 1 1,283 1 377	559 2,257 1,391 77 1,832 1,06 436 41 734 6,829
Total farm capital	32	,133 45,7	778 27,756

#### Summary of Farm Inventories (Beginning of Year), 1940

\* Explanation of term: "Work units."

The total "work units" for any one farm is a measure of size of that farm business. It is the accomplishment of a farm worker in a ten-hour day working on crops and productive livestock at average efficiency.

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

Item	Per	No. of work units	Item P	er	No. of work units
Dairy and dual	COW	13.5	Small grain - a	cre	.7
purpose cows			Soybeans for grain	11 -	.9
Other dairy & dual	.)	4.0	Sugar beets	11	3.0
purpose cattle	) animal	4,	Sweet corn	- H - 1	2.5
Beef breeding herd	) unit*	4.0	Corn, husked	11	1.3
Sheep - farm flock	)	1.6	Corn, hogged	n	.8
Hens	100 hens	26.0	Corn, shredded	<b>H</b> -	2.5
Feeder cattle	)	. 35	Corn silage	11	1.9
Feeder sheep	) 100 lbs.	.4	Corn fodder	11	1.3
Hogs	) produced	.25	Alfalfa hay	11	1.0
Turkeys	)	.7	Soybean hay	ΞĦ	1.4
Canning peas	acre	2.0	Other hay crops	11 • •	.6

the straight for the

\*Animal unit represents one cow, one bull, one feeder steer or heifer, two head of other cattle, seven head of sheep, fourteen lambs, five hogs, ten pigs, 100 hens, or 1,400 lbs. turkeys produced.

orses	a carlengo na maratria maratri		farm	of 165 farms	profitable farms	profitable farms
		\$		\$ 362	\$ 392	\$ 389
roductive livestock (total)		· Ψ		φ 902 3,917	6,986	φ <u>3</u> 89 2,847
Dairy & dual purpose cows				599	642	492
Other dairy & dual purpose ca	ottle		•	377		259
Beef cattle	avure.			1,716	3,933	1,039
Hogs				636	936	. 571
Sheep				442	859	319
Poultry				147	121	. 167
rop, seeds, and feed			an de saine a de sie al a Chaillean	4,075	6,653	2,860
ach. & equipment (total)				2,859	4,031	2,421
Power machinery (f. share)				1,093	1,489	905
Crop and gen. machinery				1,372	2,081	
Livestock equipment & suppli	0 <b>S</b>	🚊				
uildings, fences, etc.				7,090	9,022	6,847
and	••			15,011	21,636	12,809
otal farm capital		an ar an		_ 33, 314	48,720	28,173
otal farm capital				,	-0,120	20,215
		· · · · · ·	4-14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			
Summary	of Am	ount (	of Live	stock	· · · · ·	•
		0 (2110	Your	Average	33 most	33 least
	ы	•••	farm	of 165	profitable	profitable
tems				farms	farms	farms
lo. of horses				4.1	4.5	4.5
Jo. of colts				1.0	.9	1.0
lo. of dairy & dual purpose co	WS	· · ·		8.6	8.3	8.0
lead of other dairy & dual pur		at tle		9.0	8.1	7.5
lead of cattle kept in beef br				9.0	14.5	6.9
ounds of beef cattle produced			···	8,678	21,539	4,031
			<i>"</i>			
itters of pigs	•			_ 13.6	17.9	13.3
ounds of hogs produced				_ 21,335	32,231	18,101
lead of sheep (2 lambs = 1 hea	.d.)			40.5	61.4	35.6
No. of hens	e e e en		n	<b>-</b> 161	146	145
otal no. of prod. livestock a	nimal	unite		_ 55.3	91.8	41.3
order no. or prod, trochooch a					<u>j</u>	
6 of total that are:	н. 1912 - С.	• • •	,			
Dairy and dual purpose cows		 		_ 21.7	14.5	24.1
Other dairy and dual purpose	e.cows			12.9	8.3	11.9
In beef breeding herd				11.3	14.9	10.8
Feeder cattle			en er elle av etter alle alle på		31.2	12.6
Native sheep				_ 5.1	4.1	5.3
Feeder sheep					4.5	3.5
Hogs				21.1	18.4	24.5
Turkeys				2,2	1.5	3.3
Hens		-		4.1	2.6	4.0

Summary of Farm Earnings (Cas Your	Average.	. 33 most	33 least
		profitable	profitable
I tems	farms	farms	farms
ARM EXPENSES	an a	and the second	۰ . بریاد محمد بالا
Horses bought \$	\$ 32		\$ 31
Dairy and dual purpose cows bought	33	33	26
Oth.dairy & dual purpose cattle bought	43	62	
Beef cattle bought(including feeders)		2679	760
Hogs bought	103	128	. 85
Sheep bought (including feeders)	414	811	292,
Poultry bought (including turkeys) Misc. crop expenses	- 99	131	91
Misc. crop expenses	243	406	166
Feed bought		1821	. 861
Power mach. (farm share)(new) Power mach. (farm share)(upkeep)	379 411	<sup>14</sup> 59	376
Custom work hired		560	354
Crop and general mach. (new)	150	173 683	127
Crop and general mach. (new)			231
Livestock equipment (new)	- 74	98 84	57 43
Livestock equipment (upkeep)	69 74 20	25	42
Misc. livestock expense	72	25 98	68
Buildings and fencing (new)	412	621	339
Buildings and fencing (upkeep)	88	125	83
Hired labor	392	630	
Taxes		472	273
Insurance		,	
General farm	59	72	59
(1) Total farm purchases	5990	10242	4685
(2) Décrease in farm capital			
(3) Board furnished hired labor	131	194	103
(4) Interest on farm capital		2362	1398
(5) Unpaid family labor	252	316	257
(6) Total farm expenses(Sum of (1) to (5)	8008	13114	6443
FARM RECEIPTS	The second se		and a star a
Horses	¥2		67:00
Dairy and dual purpose cows	110		66
Dairy products	570	582	429
Other dairy and dual purpose cattle	155	127	
Beef cattle (including feeders)	2373		1343
Hogs	1162	1673	1067
Sheep and wool (including feeders)	_ 470	839	363
Poultry (including turkeys)	372	521	262
Eggs	244	210	267
Corn	- 516	749	343
Small grain	849	1461	521
Other crops		381	176
Power machinery sold	<u> </u>		136
Crop and gen. mach. sold	81	185	
		607	219
Income from work off the farm	$-\frac{193}{506}$	262	82 - 417
Agricultural adjustment payments	$-\frac{506}{8414}$	795	and the second s
(7) Total farm sales		13938 2944	5896 416
(8) Increase in farm capital (9) Farm prod. used in house + house	1179	. <i>2</i> 944	410
(9) Farm prou: used in nouse + nouse	ligz .	555	475
(10) Total farm receipts (7)+(8)+(9)	$-\frac{482}{10106}$		6787
(6) Total farm expenses		17437	6443
(1) Operator's labor earnings(10)-(6)	8008		644 <i>3</i> 344

tems	Enterprise Statement), 1940 (A) r Average 33 most 33 least n of 165 profitable profitable farms farms farms
XPENSES AND NET DECREASES	
Total power \$	\$ 674 \$ 876 \$ 646
Horses	144 182 160
Tractor	231 303 204
Truck	67 138 54
Auto (farm share)	137 144 139
Gas engine (farm share)	$\frac{1}{2}$
Elec. plant or current(farm share)	
Hired power	
Crop and general machinery	223 315 203
Livestock equipment	67 76 65
Buildings, fencing and tiling	240 325 270
Misc. productive livestock expense	70 96 66
Labor	807 1,176 698
Real estate taxes	269 395 242
Personal property tax	<u> </u>
Insurance	15 20 10
General farm	59 $72$ $59$
Interest on farm capital	1,636 2,362 1,398
(1) Total expenses & net decreases	4,104 5,790 3,688
ETURNS AND NET INCREASES	
ETURNS AND NET INCREASES	\$4.194 \$6.935 \$3.011
All productive livestock	\$4,194 \$6,935 \$3,011 682 732 547
All productive livestock Dairy and dual purpose cows	682 732 547
All productive livestock Dairy and dual purpose cows Other dairy & dual purpose cattle	682 732 547 294 259 194
All productive livestock Dairy and dual purpose cows Other dairy & dual purpose cattle Beef breeding herd	682 732 547 294 259 194 268 490 186
All productive livestock Dairy and dual purpose cows Other dairy & dual purpose cattle Beef breeding herd Feeder cattle	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
All productive livestock Dairy and dual purpose cows Other dairy & dual purpose cattle Beef breeding herd Feeder cattle Hogs	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
All productive livestock Dairy and dual purpose cows Other dairy & dual purpose cattle Beef breeding herd Feeder cattle Hogs Sheep - farm flock	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
All productive livestock Dairy and dual purpose cows Other dairy & dual purpose cattle Beef breeding herd Feeder cattle Hogs Sheep - farm flock Sheep - feeders	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
All productive livestock Dairy and dual purpose cows Other dairy & dual purpose cattle Beef breeding herd Feeder cattle Hogs Sheep - farm flock	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
All productive livestock Dairy and dual purpose cows Other dairy & dual purpose cattle Beef breeding herd Feeder cattle Hogs Sheep - farm flock Sheep - feeders Turkeys Chickens	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
All productive livestock Dairy and dual purpose cows Other dairy & dual purpose cattle Beef breeding herd Feeder cattle Hogs Sheep - farm flock Sheep - feeders Turkeys Chickens Crops, seed and feed	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
All productive livestock Dairy and dual purpose cows Other dairy & dual purpose cattle Beef breeding herd Feeder cattle Hogs Sheep - farm flock Sheep - feeders Turkeys Chickens Crops, seed and feed Income from work off the farm	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
All productive livestock Dairy and dual purpose cows Other dairy & dual purpose cattle Beef breeding herd Feeder cattle Hogs Sheep - farm flock Sheep - feeders Turkeys Chickens Crops, seed and feed Income from work off the farm Agricultural conservation payments Miscellaneous	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
All productive livestock Dairy and dual purpose cows Other dairy & dual purpose cattle Beef breeding herd Feeder cattle Hogs Sheep - farm flock Sheep - feeders Turkeys Chickens Crops, seed and feed Income from work off the farm Agricultural conservation payments Miscellaneous	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
All productive livestock Dairy and dual purpose cows Other dairy & dual purpose cattle Beef breeding herd Feeder cattle Hogs Sheep - farm flock Sheep - feeders Turkeys Chickens Crops, seed and feed Income from work off the farm Agricultural conservation payments Miscellaneous	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
All productive livestock Dairy and dual purpose cows Other dairy & dual purpose cattle Beef breeding herd Feeder cattle Hogs Sheep - farm flock Sheep - feeders Turkeys Chickens Crops, seed and feed Income from work off the farm Agricultural conservation payments Miscellaneous	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

(A) Cash receipts and expenses are adjusted for changes in inventory for each enterprise and for each item of expense in order to show total receipts and net increases, and total expenses and net decreases. The operator's labor earnings are the same as those on page 6.

- **. . . . .** 

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

The financial statement on the preceding pages show that there is a wide range in earnings. The average operator's labor earnings for the 33 most profitable farms was \$4,323, and for the 33 least profitable farms \$344. The difference between the averages for these two groups was \$3,979. Some of the causes for these differences in earnings may be beyond the control of the farmer. It is significant, however, that the data in this report indicate that there are several factors which show definite relationships with operator's labor earnings and which suggest opportunities for increased earnings. The more important of these factors and their relationship with earnings are presented in the following tables.

Table 2.	Relation o:	f Crop Yields	to Farm Earnings
Per cent crop were of the av for all 165 fa	yields erage	No. of farms	Average operator's labor earnings
Group A	verage	an a	
Below 86 86-113 114 and above	78 100 123	33 100 32	\$1,308 2,282 2,338

High production per acre, up to certain limits, tends to lower the cost per bushel of grain or per ton of hay. Any possible method of management that will increase crop yields and therefore lower cost of production more than the extra expense incurred in securing the higher yields should be given consideration.

Table 3.	Relation of Ch	noice of Crop	s to Farm Earnings
Per cent of t	illable land		
in high retur	n crops*	No. of	Average operator's
Group	Average	farms	labor earnings
Below 31.0 31.0-39.9 40.0 & above	27.8 35.1 46.0	4 <u>1</u> 84 40	\$1,883 2,025 2,472

\*Crops are marked on page 14 as (A), (B), (C), and (D). All of acres in (A) crops, one-half of acres in (B) crops, and one-fourth of acres in (C) crops are used in calculating per cent of tillable land in high return crops.

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

Table 4. Relation of Returns From Productive Livestock to

	Farm	Earnings	
Index of returns for finder to productive		No. Of	Average operator's
Group	Average	farms	labor earnings
Below 88 89-111 112 and above	72 100 126	141 79 45	\$1,278 2,352 2,398

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

The majority of these farms are livestock forms. A large proportion of the crops raised are fed on the farm and some additional feed is purchased. Feed is the major item of cost in livestock production and livestock constitute an important source of income on these farms. Hence there is a marked relationship between returns for \$100 of feed and operator's labor earnings on these farms. There are a number of reasons for differences among farms in livestock returns. High productivity per animal and economy in the use of feed and labor are important. Other factors of considerable importance are kind of feed used, quality of pastures, balance of ration, degree of sanitation, and kind of shelter and equipment.

es a confident Table 5. Relation of Amounts of Productive Livestock to 2. 2

	Marka Bar	, a ditas	Farm Earni	ngs	· · · · · · · · · · · · · · · · · · ·	· · · ·
el de la come	Productive live	stock 👘 "	化学 化学学 计			
14 Mg 2 A	units per 100 a	icres*	No. of	Av	erage opera	tor's
Alter and a second	Group Av	verage	farms	la	bor earning	S
	and the second second second	19 - F				
tu se tu s	Below 16.5	12.1	53	· · · · ·	\$1,970	
	16.5-25.4	20.9	64		1,953	
	25,5 and above	34.7	48		2,434	
	And the second	·	· · · · · · · · · · · · · · · · · · ·			

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

ار المراجع الم مراجع المراجع ال The information in Table 5 shows the farms with a small amount of livestock to be as profitable as those with an average amount of livestock. However, an examination of the farms in these two groups shows that several very specialized crop farms with very little livestock are included in the group having less than 16.5 productive livestock units per 100 acres. If the farmers receiving more than 40 percent of their income from crops were to be omitted from the averages the operator's labor earnings of the group with a small amount of livestock would be \$1,482. If the livestock is yielding a net return, an increased amount of livestock adds to size of business and the opportunity to increase the farm earnings. Livestock produces manure and aids in keeping up the fertility of the land, and utilizes waste products on the farm. Livestock also helps to provide productive employment throughout the year. Any method that aids in utilizing the available resources to full and efficient capacity should add to the farm income. and the program is the second second

No. of work uni	ts	No. of	Average operator's	·
Group	Average	farms	labor earnings	
	e e para e quin	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		
Below 400	337	42	\$1,247	
400-699	546	87	2,021	1
700 and above	894	36	3,277	

**N** . . . .

Table 6. Relation of Size of Business (Work units)

Average farm earnings tend to increase with an increase in size of business. For farmers operating their farms at a loss, the larger the volume of business, the larger will be the loss, but a farmer who is making a profit could make a larger profit if he increased his size of business, providing that in so doing he does not lower materially the efficiency in some one or more important branches of his business. Those farmers who have large businesses usually have more flexibility of their organization than does the man with a small business, and can utilize more efficiently and to better advantage available labor, power, machinery and buildings. The size of the farm business may be increased by farming more land, by keeping more livestock, or by keeping livestock or growing crops of a more intensive type.

Table	7.	Relation of Amount	of	Work Accomplished per
	1 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -	T.T		

Work unit per w Group Av	orker erage		Av Av		3	- 11 21 - 12 11 - 12
Below 215 215-299 300 and above	180 253 363	39 86 40	n in the second se	\$1,479 2,205 2,472		

More days of productive work accomplished per worker reduces the labor charge per unit of business. Higher labor accomplishment can be secured in several ways. In the first place, the business must be large enough so that there will be at least sufficient work available for the family labor. The farm should be so organized that the labor requirements are well distributed throughout the year. Handling pastures in such a way that as large a proportion as possible of the year's feed for livestock may be obtained from them helps to reduce labor requirements. Proper planning of the farm work and economical use of laborsaving machinery help to increase the work accomplished per worker.

Table 8. Relation of Power, Machinery, Equipment and

	Building	Expense to Farm	Earnings <sup>*</sup>	-
Expense per w	ork unit	No. of	Average operator	s
Group	Average	farms	labor earnings	-
\$2.65 and abo \$1.60-\$2.64 Below \$1.60	ve \$3.38 2.01 1.32	39 86 40	\$1,773 2,122 2,363	3

\*Includes building, fencing, all crop machinery and livestock equipment, horse feed, and miscellaneous horse expense."

The expense factor does not show as high relationship with earnings when prices are high as when they are low. Some farms are under-equipped. On a few farms, excessive expenses constitute the main factor causing earnings to be very low.

Some of the cash expenses can be kept down by careful management. Oftentimes necessary repairs and improvements can be made by using the available farm labor rather than by hiring extra help. Repairs and overhauling should be done before spring work begins insofar as possible; or on rainy days or in other spare time during the summer. Reducing the number of horses to the minimum required for efficient operation of the farm helps reduce the power expense. In some cases, farmers can offset some or all of the power and machinery expense by using their equipment for outside work.

#### EFFECT OF WELL BALANCED EFFICIENCY ON FARM PROFITS

It is quite evident from this report that few farmers have a monopoly on efficiency. Quite often farm operators show efficient management in one part of the farm business, which is offset by poor results in other phases. These farmers get medium returns while those who fall down all along the line get the lowest returns, and on the other hand those few who can manage to attain high efficiency in all parts of their organization receive returns well above the average. This is well illustrated in Table 9.

No. of factors in No.	τ	The length of the shaded lines	Average operator's
which farm of excels farms		operator's labor earnings	labor earnings
excers tarms	1 9 1 10	operator's labor earnings	earnings
Seven 3		******	\$4,446
Six 13		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	3,285
Five 27			3,078
Four 28	•	XXXXXXXXXXXXXXXX	2,085
Three 43		XXXXXXXXXXXXXXXXXX	2,030
Two 34	5	XXXXXXXXXXXX	1,411
One or none 17		XXXXXXX	848

The array in Table 9 indicates that it will be worthwhile for each cooperator to study carefully his ranking on pages 12 and 13, and learn his standing in respect to each of the above factors and the elements of strength and weakness in his farm business.

:

and the second second

Constant Production

and a second na na sana ang manana ang mananana ang mananana ang manananananana ang manananananananananananana ang manananan

> service and the service of the servi

·····

and the second process . . ......

المراجع المراجع المراجع الم and the second second

A CONTRACT REPORT OF A e e construir annas وراجوا والمحمودة الأ

the second second

الفيوادية الاستحداد الح

2 - 14 1 - 1

.

.

,

.

• • •

•

· · , • . ÷., · · · · the second second and and a second se Second . \* . . يعويده والالع الالم الم • • 

an an ann an the state of the a a second a La second a s La second a s . A

	- 12 -		· · · · · · · · · · · · · · · · · · ·	
Measures of Farm O Measures used in chart on page 13	rganization and Manage You fai	Average ar of 165	33 most	33 least profit- able farms
Operator's Labor Earnings	\$	\$2,098	\$4,323	\$344
(1) Crop yields*	• • • • • • • • • • • • • • • • • • •	100	107	94
(2) % of tillable land in h	igh return crons**	35.9	38.1	34.4
(3) Ret. for \$100 feed to p	rod. livestock***	100	107	90
(4) Prod. livestock units p	er 100 acres****	22.1	24.5	19.9
(5) Size of business - work	units	569	774	457
(6) Work units per worker		263	288	223
(7) Pow., mach., equip., & bldg	.exp.per work unit \$	\$2.17	\$1.99	\$2,65
Measures and items related above measures: (3) Index of return for \$100 Dairy cattle		100	96	87
Dual purpose cattle Beef cattle - breedin,	g herd	100 100	11)4 108	98 90
Beef cattle - feeders Hogs Sheep - farm flock		100 100 100	104 113 119	99 91 76
Sheep - feeders Turkeys Chickens		100 100 100	97 108 108	63 78 94
(5) Work units on crops Work units on productive Other work units	e livestock	214 306 49	312 395 67	181 255 21
(6) Total number of workers Number of family worke Number of hired worker		2.2 1.5 .7	2.8 1.6 1.2	2.1 1.4 .7
<ul> <li>(7) Power expense per work a Crop machinery expense y Livestock equip. expense Bldgs. and fencing exp.</li> </ul>	per work unit	\$1.22 .40 .12 .43	\$1.11 .40 .10 .38	\$1.44 .45 .16 .60

\* Given as a percentage of the average.

\*\* Crops are marked on page 14 as (A), (B), (C) and (D). All of acres in (A) crops, one-half of acres in (B) crops, and one-fourth of acres in (C) crops are used in calculating per cent of tillable land in high return crops. \*\*\* An index weighted by the animal units of livestock.

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

# Thermometer Chart

Using your figures from page 12 locate your standing with respect to the various measures of farm organization and management efficiency. The averages for the 165 farms included in this summary are located between the dotted lines across the center of this page.

	•		مېنوفېر ، د				
Oper.		۲.	Return	Pr. 1	• 5 •	Work	Pow., mach.,
labor		High	from pro-			units	eq.,& bldg.
earn-	Crop	return	ductive livestoch	per	Work	per	exp. per
ings	yield:	s crops	livestoci	c 100 A	• units	worker	day pr. work
\$4900	140	56.0	140	42.0	975	420	\$.60
4550	135	53•5	135	39.5	925	400	.80
4200	130	51.0	130	37.0	875	380	1.00
3850	125	48.5	125	34.5	825	360	1.20
3500	120	46.0	120	32.0	775	340	1.40
3150	115	43.5	115	29.5	725	320	1.60
2800	110	41.0	110	27.0	675	300	1.80
2450	105	38.5	105	24.5	625	280 -	2.00
2100	100	36.0	100	22.0	575=	263 -	8:26
1750	95 <u>-</u>	33.5	95	19.5	525	240	2.40
1400 -	90 -	31.0 E	90 -	17.0	475	220 =	2.60
1050	.85	28.5	85	14,5	425	200 =	2.80
700 =	80 -	26.0	80	12.0	375	180 -	3.00
350	75	23.5	75	9•5	325	160	3.20
0	70	21.0	70	7.0	275	140 -	3.40
-350 = =	65	18.5	65	4.5 E	225	120	3.60
	50			t			
		• • • • • • • • • • • • • • • • • • •	1	t style Store træyere er skielege		n de Les angeles de la composition de la comp Les angeles de la composition de la comp	

-2--

Distrib	tion c		in Farm.	1940
		T TOTOD	مذذاة باسلاك تحج بالشياس	

D Crop: (A) (B) (C) and (D to ranking used in calcu % of tillable land in Hig Return Crops (see page 1)	lating gh	No. growing this crop	Your	1940 Average of 165 farms	33 most profit- able farms	33 least profit- able farms
Canning peas Flax Barley Barley and oats Winter wheat Spring wheat Oats Oats and wheat Rye Soybeans for grain Miscellaneous	(A) (B) (C) (C) (C) (D) (D) (D) (D) (D) (D) (D)	10 136 108 11 3 63 152 6 13 32 7		1.3 32.0 24.6 <b>2.1</b> 1.4.6 40.3 .5 1.1 2.0 8	.8 50.5 41.4 3.3 0 822 49.5 0 1.7 5.6 1.1	24.2 16.6 8 0 4.5 35.0 2.5 .9
Total Small Grain an				109.4	162.1	85.6
Sugar beets, hybrid seed potatoes and truck crop Sweet corn Corn grain Corn silage Corn fodder		71 .7 163 89 62		4.2 .6 57.3 7.4 2.6	10.0 .8 79.8 10.5 2.4	4.4 43.6 5.2 4.8
Total cultivated cro	o'o s			72:1	103.5	58.3
Alfalfa hay Sweet clover hay Scybean hay Mined legumes & non-legum Legumes for seed Timothy and/or brome Other annual hay	(A) (B) (C)	151 21 69 26 12 36 41		15.6 1.6 3.0 2.3 .8 2.0 1.4	22.6 2.3 2.8 3.0 2.3 2.3 2.4	13.6 2.2 2.1 1.3 .5 1.9 .5
Total tillable land	in hay	i dan san sa Alisi sa	$c = \frac{1}{2} \sum_{i=1}^{n} \sum_{j=1}^{n} \frac{1}{2} \sum_{i=1}^{n} \frac{1}{2} $	26.7	37.7	22.1
Alfalfa pasture Sweet clover pasture Mixture incl.alf.,sw.clow Other legumes and mixture Sudan grass pasture Other tillable pasture	(A) ('B) v.,brome(B)	43. 65 30 29 38 86		1,5 7.9 2,4 1.9 1.7 8.0	2.4 13.1 3.4 1.2 2.4 8.9	1.3 9.4 2.4 1.6 1.5 11.6
Total tillable land				23.4	31.4	27.8
Tillable land not cropped	(D)	41		5.0	3.9	1.3
Total tillable land				233.6	338.6	195.1
Phalaris hay (non-tillabl Wild hay (non-tillable) Non-tillable pasture Timber (not pastured) Roads and waste Farmstead	e)	55 55 101 22		.1 .1 .1 .5 .9.6 .9.1	.1 5.4 31.4 .6 14,1 11.4	.2 5.5 18.5 1.1 7.3 8.2
Total acres in farm % land tillable % tillable land in high r	eturn crops			278.7 84.8 35.7	401.6 87.4 36.9	235.9 82.3 34.4

Crop	an a		<u>Grop Yields</u>	Your farm	Average 165 farms	33 most profitable farms	33 least profitabl farms
Flax, t Barley, Barley	g peas, valu ou. bu. and oats, b wheat, bu.		seed cost \$		\$39.93 13.7 42.3 53.7 25.2		\$28.99 11.3 36.8 49.7 -
Oats, b Oats ar Rys, bu	wheat, bu. mu. nd wheat, bu n. ns for grain				23.6 60.1 60.9 19.9 14.4	26.7 66.2 - 23.1 14.6	20.5 58.2 60.1 16.3 12.8
Corn, é Corn si	corn, tons grain, bu. lage, tons odder, tons		<pre>Provide Action and Provide Action Provide Action Action Action Provide Action Action Action Provide Action Action Action Provide Action Action Provide Action Action Provide Action P</pre>		2.9 46.2 8.5 3.3	3.2 48.9 8.9 4.1	1.5 43.4 8.7 3.3
Sweet of Soybear Mixed 1	a hay, tons clover hay, hay, tons egume & non for seed,	-legume l	nay, tons		2.0 1.4 1.6 1.4 138.1	2.0 1.8 1.6 1.3 102.6	2.1 1.1 1.4 1.7 202.7
Other a Phalari	and/or brom nnual hay, s hay on no ay, tons	tons	tons le land, tons	991-12-0	1.4 1.7 1.9 1.3	1.5 .8	1.9 3.2 5.0 1.2
	n an an Anna Anna Anna Anna Anna Anna A Anna Anna		n an	1.1.1			
		le transformation de la constante de la consta					
			and a start of the		4	a da Zara da La Tanana	
			na da suma manga sa	، ، بالا من الم	····		
		a lituar	3. We shall a contract on the second seco	n an taiste an			¢j →

. e la p All and the second second second • · · · · · · 1. g and the second second second • • • • • • • • • • • • • • 

والمراجع والمراجع

- 15 -

Factors of Cost and Retu	rns F	rom Dair	y Cows. 1	.940	
Items			Average of 78 farms	16 farms highest in returns above feed	16 farms lowest in returns above feed
Pounds of butterfat per cow	سب		250	328 en 3	188
Feeds per cow, lbs.: Corn Small grain Com. feeds - under 25% protein Com. feeds - over 25% protein	алан ала алан адар алан алан алан алан алан алан алан алан		924 1,496 41 93	1,016 1,675 2 112	1,037 1,781 .5 114
Legume hay Other hay Fodder and stover	  		3,570 450 399	3,518 198 619	4,043 839 229
Total concentrates Total dry roughage Silage	• • •		2,554 4,419 5,310	2,805 4,335 5,620	- · · ·
Total digestible nutrients* T.D.N. per 1b. B. F. % T.D.N. that is protein			5,025 21.0 14.1	5,183 15.9 14.0	5,691 30.6 14.2
Feed cost per cow: Concentrates Roughages Pasture TOTAL FEED COSTS	\$	1990 - Start Start - St - Start - Start - Start - Start	\$21.34 19.63 <u>5.53</u> \$46.50	5.29	21.87 <u>5.59</u>
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	\$		\$71.54	\$110.86 5.42 12.77 <u>2.58</u> \$131.63	\$43.20 11.67
RETURNS ABOVE FEED COST PER COW	\$		\$43.03	\$84.16	\$ 8.32
RETURNS FOR \$100 OF FEED	\$	and pharmonic and the story distance	\$199	\$278	\$121
Price received per 1b. B. F. sold As manufacturing cream (cents) As mkt.mk.& cm.& mk. for cheese (c	ts.)		31.2 47.8	33.1 56.0	29.6 39.3
Feed cost per 1b. B. F. (cents)	<del></del>		19.4	14.5	27.7
% fall freshening			52.0	61.0	32.0
Number of dairy cows**	40° 6400	948+8 Telefonderset, og skrivet og	11.5	11.2	11.0

\*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.

- 16 -

	<u> Feed Costs</u>	and revu	rns From Othe	and the second se		
		a na sana ang sana a Tang sana ang		Average		14 farms
p) the tell.	2 1 2 1 1 Let	$v^{(i)} = v^{(i)}$	farm	of 72		lowest in
<b>-</b>	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			farms*		returns
Items	in the second				<u>above feed</u>	above feed
Feeds per head	lbs :					and the state of the second
Concentrate			, An a se a far ana	674	1997 - 199 <b>0 1977 - 1</b> 97	642 <sup>34</sup>
Hay and fod			antradistingly with a spectrum of the spanne	1,464	· · 1,090	
Silage		*		1,917	1,785	
Whole milk				379		2. <u>2.</u> 240
Skimmilk	x	11		1,308		
N		The second se			i Menza - edin	
Feed cost per l	head:					
Concentrate			\$	\$ 5.46	\$ 6 39	\$ 5.05
Roughages		3 A.Y		6.70		24 (19 <b>.</b> 30
Milk		i pat		6.64	······································	ີ່ຈະມີຮັດງ
Pasture						
TOTAL FE	ED COSTS		\$	<u>3.48</u> \$22.28	\$24.76	<u>3.39</u> \$22.75
			· · · · · · · · · · · · · · · · · · ·		en an	
Net inc. in va	lue of other	dairy ca	ttle	\$31.94	\$53.38	\$17.02
RETURNS ABOVE I	FEED COST PER	R HEAD	••••••\$ <u>••••••</u>	\$ 9.66	\$28.62	\$-5.73
RETURNS FOR \$10	ाजना मन्द्र त			\$1 EO	. કેંડ્ર કેંટ્ર ડ્રેમ્ટ્ર કેટ જેલ્લા <b>કેટ</b> ંટ્ર}મેં ક	
				- φ190	φ2)4	φ[4
Number of head	of other dai	irv cattle	9	12.6	ಿಗೆ ಇಂಸ್ ಸಂಪ	्य सम्पन्न हो ज
			••••••••••••••••••••••••••••••••••••••		- <b>J. J</b> . 21: 7: 20	1 12 1 1 12 1
<ul> <li>A second sec second second sec</li></ul>			<ul> <li>An operation of the second seco</li></ul>	a ang ang ang ang ang ang ang ang ang an		
	Feed	Costs and	l Returns Fro	m All Dai:	rv Cattle	n an
	Feed	Costs and	<u>l Returns Fro</u> Your			
	Feed	Costs and	Your	Average	16 farms	16 farms
	n ser en ser En ser en ser En ser en ser	Costs and		Average of 78	16 farms highest in.	16 farms lowest in
Items	Feed	Costs and	Your	Average	l6 farms highest in returns	16 farms lowest in returns
N 14. 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997			Your	Average of 78	l6 farms highest in returns above feed	16 farms lowest in returns above feed
Feeds per anima	al unit, lbs.		Your	Average of 78 farms	16 farms highest in returns above feed	16 farms lowest in returns above feed
Feeds per anima Concentrates	al unit, 1bs.		Your	Average of 78 farms 2,139	16 farms highest in returns above feed	16 farms lowest in returns above feed
Feeds per anima Concentrates Hay and fodd	al unit, 1bs.		Your	Average of 78 farms 2,139 3,852	16 farms highest in returns above feed 2,472 4,033	16 farms lowest in returns above feed
Feeds per anima Concentrates	al unit, lbs. s der		Your	Average of 78 farms 2,139	16 farms highest in returns above feed	16 farms lowest in returns above feed
Feeds per anima Concentrates Hay and fodo Silage	al unit, lbs.		Your	Average of 78 farms 2,139 3,852	16 farms highest in returns above feed 2,472 4,033	16 farms lowest in returns above feed 2,546 4,460
Feeds per anima Concentrates Hay and fodo Silage Feed cost per a	al unit, lbs. s ler ·		Your	Average of 78 farms 2,139 3,852 4,480	16 farms highest in returns above feed 2,472 4,033 3,922	16 farms lowest in returns above feed 2,546 4,460 5,059
Feeds per anima Concentrates Hay and fodo Silage Feed cost per a Concentrates	al unit, lbs. s ler ·		Your	Average of 78 farms 2,139 3,852 4,480 \$17.80	16 farms highest in returns above feed 2,472 4,033 3,922 \$20.83	16 farms lowest in returns above feed 2,546 4,460 5,059 \$21.28
Feeds per anima Concentrates Hay and fodo Silage Feed cost per a Concentrates Roughages	al unit, lbs. s ler ·		Your	Average of 78 farms 2,139 3,852 4,480 \$17.80	16 farms highest in returns above feed 2,472 4,033 3,922 \$20.83	16 farms lowest in returns above feed 2,546 4,460 5,059 \$21.28
Feeds per anima Concentrates Hay and fodd Silage Feed cost per a Concentrates Roughages Pasture	al unit, lbs. s ler animal unit:		Your	Average of 78 farms 2,139 3,852 4,480 \$17.80	16 farms highest in returns above feed 2,472 4,033 3,922 \$20.83	16 farms lowest in returns above feed 2,546 4,460 5,059 \$21.28
Feeds per anima Concentrates Hay and fodo Silage Feed cost per a Concentrates Roughages Pasture TOTAL FEI	al unit, lbs. statistical ler · animal unit: s ED COSTS		Your	Average of 78 farms 2,139 3,852 4,480 \$17.80	16 farms highest in returns above feed 2,472 4,033 3,922 \$20.83 16.79 5.94	16 farms lowest in returns above feed 2,546 4,460 5,059 \$21.28
Feeds per anima Concentrates Hay and fodo Silage Feed cost per a Concentrates Roughages Pasture TOTAL FEI Value of produc	al unit, lbs. s ler animal unit: s ED COSTS ce per animal		Your	Average of 78 farms 2,139 3,852 4,480 \$17.80 16.94 <u>6.08</u>	16 farms highest in returns above feed 2,472 4,033 3,922 \$20.83 16.79 <u>5.94</u> \$43.56	16 farms lowest in returns above feed 2,546 4,460 5,059 \$21.28 19.58 6.25 \$47.11
Feeds per anima Concentrates Hay and fodo Silage Feed cost per a Concentrates Roughages Pasture TOTAL FEI Value of produce Dairy produce	al unit, lbs. s ler animal unit: s ED COSTS ce per animal cts	i i i i i i i i i i i i i i i i i i i	Your farm \$\$	Average of 78 farms 2,139 3,852 4,480 \$17.80 16.94 \$17.80 16.94 \$55.82	16 farms highest in returns above feed 2,472 4,033 3,922 \$20.83 16.79 <u>5.94</u> \$43.56	16 farms lowest in returns above feed 2,546 4,460 5,059 \$21.28
Feeds per anima Concentrates Hay and fodo Silage Feed cost per a Concentrates Roughages Pasture TOTAL FEI Value of produc Dairy produc Net increase	al unit, lbs. s ler animal unit: s ED COSTS ce per animal cts a in value of	i i i i i i i i i i i i i i i i i i i	Your farm \$\$	Average of 78 farms 2,139 3,852 4,480 \$17.80 16.94 \$17.80 16.94 \$55.82	16 farms highest in returns above feed 2,472 4,033 3,922 \$20.83 16.79 <u>5.94</u> \$43.56 \$79.05	16 farms lowest in returns above feed 2,546 4,460 5,059 \$21.28 19.58 6.25 \$47.11 \$40.15
Feeds per anima Concentrates Hay and fodo Silage Feed cost per a Concentrates Roughages Pasture TOTAL FEI Value of produc Dairy produc Net increase	al unit, lbs. s ler animal unit: s ED COSTS ce per animal cts	i i i i i i i i i i i i i i i i i i i	Your farm \$\$	Average of 78 farms 2,139 3,852 4,480 \$17.80 16.94 <u>6.08</u>	16 farms highest in returns above feed 2,472 4,033 3,922 \$20.83 16.79 <u>5.94</u> \$43.56	16 farms lowest in returns above feed 2,546 4,460 5,059 \$21.28 19.58 6.25 \$47.11 \$40.15
Feeds per anima Concentrates Hay and fodo Silage Feed cost per a Concentrates Roughages Pasture TOTAL FEI Value of produc Dairy produc Net increase TOTAL VAL	al unit, lbs. s ler animal unit: s ED COSTS ce per animal cts e in value of LUE PRODUCED	i i i i i i i i i i i i i i i i i i i	Your farm \$\$	Average of 78 farms 2,139 3,852 4,480 \$17.80 16.94 50.82 \$55.82 18.83 \$74.65	16 farms highest in returns above feed 2,472 4,033 3,922 \$20.83 16.79 <u>5.94</u> \$43.56 \$79.05	16 farms lowest in returns above feed 2,546 4,460 5,059 \$21.28 19.58 6.25 \$47.11 \$40.15 12.33 \$52.48
Feeds per anima Concentrates Hay and fodo Silage Feed cost per a Concentrates Roughages Pasture TOTAL FEI Value of produc Dairy produc Net increase TOTAL VAL	al unit, lbs. s ler animal unit: s ED COSTS ce per animal cts e in value of LUE PRODUCED FEED PER ANIM	i i i i i i i i i i i i i i i i i i i	Your farm \$\$	Average of 78 farms 2,139 3,852 4,480 \$17.80 16.94 50.82 \$55.82 18.83 \$74.65	16 farms highest in returns above feed 2,472 4,033 3,922 \$20.83 16.79 <u>5.94</u> \$43.56 \$79.05 <u>25.38</u> \$104.43	16 farms lowest in returns above feed 2,546 4,460 5,059 \$21.28 19.58 6.25 \$47.11 \$40.15 12.33 \$52.48 \$ 5.37
Feeds per anima Concentrates Hay and fodo Silage Feed cost per a Concentrates Roughages Pasture TOTAL FEE Value of produce Dairy produce Net increase TOTAL VAL RETURNS ABOVE H	al unit, lbs. ler animal unit: s ED COSTS ce per animal cts in value of LUE PRODUCED FEED PER ANIM DO OF FEED	init: unit: dairy ca IAL. UNIT	Your farm \$\$	Average of 78 farms 2,139 3,352 4,480 \$17.80 16.94 \$17.80 16.94 \$55.82 18.83 \$74.65 \$33.83	16 farms highest in returns above feed 2,472 4,033 3,922 \$20.83 16.79 5.94 \$43.56 \$79.05 <u>25.38</u> \$104.43 \$60.87 \$241	16 farms lowest in returns above feed 2,546 4,460 5,059 \$21.28 19.58 6.25 \$47.11 \$40.15 12.33 \$52.48 \$ 5.37 \$115

Feed Costs and Returns From Other Dairy Cattle, 1940

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

Items	Your Average farm of 50 farms	10 farms highest in returns above feed	10 farms lowest in returns above feed
Pounds of butterfat per cow Feeds per cow, lbs.:	179	224	137
Corn Small grain Com. feeds - under 25% protein Com. feeds - over 25% protein	565 927 2 8	454 839 1 6	880 1,117 4 8
Legume hay Other hay Fodder and stover	2,981 843 409	1,925 1,193 220	3,615 599 443
Total concentrates Total dry roughage Silage	1,502 4,233 4,132	1,300 3,338 5,222	2,009 4,657 4,210
Total digestible nutrients* T.D.N. per 1b. B.F. % T.D.N. that is protein	3,926 22.8 13.8	3,517 15.6 12.9	4,543 33.3 13.8
Feed cost per cow: Concentrates \$	\$11.99 17.03 <u>5.83</u> \$34.85	\$10.55 14.51 <u>5.79</u> \$30.85	\$15.36 19.25 <u>5.84</u> \$40.45
Value of produce per cow: B.F. sales \$	\$\43.57 7.90 9.22  \$61.34	\$51.94 12.08 11.33 <u>2.48</u> \$77.83	\$32.87 5.91 8.06 <u>-2.44</u> \$44.40
RETURNS ABOVE FEED COST PER COW \$	\$26,49	\$46.98	\$ 3.95
RETURNS FOR \$100 OF FEED \$	\$185.	\$262	\$110
Price received per 1b. B.F. sold As manufacturing cream (cents)	30.0	30.1	29.9
Feed cost per 1b. B.F. (cents)	20.2	13.8	29.6
% fall freshening	46.0	42.0	36.0
Number of dual purpose cows	9.9	19.1	12.0

and the second second

÷.,

\*Not including nutrients received from pasture.

· · . · · ·

- 18 -

Items		· · · · · · · · · · · · · · · · · · ·	Your farm	Average of 39 farms*	se Cattle, 1 10 Farms highest in returns above feed	10 Farms lowest in returns <u>above feed</u>
	· · · · · · · · · · · · · · · · · · ·	ويواجده المتحمد				
Feeds per head, 1bs Concentrátes				742	791	877
Hay and fodder		and the second second	<b></b>	1633	1652	2118
Silage		· · ·	angalan da managana angalan da	1228	768	1469
Whole milk		and the second sec		204	136	158
Skimmilk		a Magina da kaya a sa kaya sa k	······································	1223	1134	801
Feed cost per head:		ير يو المعالية	<b>#</b>	der ali	#C ***	¢( 07
Concentrates	,		ф	\$5,94	\$6.32	\$6.97
Roughages Milk		· · · · · · ·	4.0	6.07 4.42	5.76 3.42	7.71 3.29
Pasture		n index a		$ \frac{4}{2}$	2.48	4.41
TOTAL FEED CO	STS .	1997 - 1997 -	\$	\$19.86	\$17.98	\$22.38
· · · · · · · · · · · · · · · · · · ·		and the second sec	1.			The state
Net increase in val	ue		\$:	\$30.39	\$41.48	\$21.25
RETURNS ABOVE FEED	COST PER	HEAD	\$	\$10.53	\$23.50	\$-1.13
RETURNS FOR \$100 OF	FEED	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	\$	\$163	\$243	\$98
Io of head of othe	r dual m	uriose catt	ได	16.6	19 3	18.6
				16.6	19.3	18.6
No. of head of othe Fe			is From All		pose Cattle	18.6
			is From All	. Dual Pur	pose Cattle	
Fe			ns From All	Dual Pur Average	pose Cattle 10 Farms highest in returns	10 Farms lowest in returns
			ns From All	Dual Pur Average of 51	pose Cattle 10 Farms highest in	10 Farms lowest in
Fe Items	ed Costs	and Return	ns From All	Dual Pur Average of 51	pose Cattle 10 Farms highest in returns	10 Farms lowest in returns
Fe Items Feeds per animal un	ed Costs	and Return	ns From All	Dual Pur Average of 51	pose Cattle 10 Farms highest in returns above feed	10 Farms lowest in returns above feed
Fe Items	ed Costs	and Return	ns From All	Dual Pur Average of 51 farms	pose Cattle 10 Farms highest in returns	10 Farms lowest in returns
Fe Items Feeds per animal un Concentrates	ed Costs	and Return	ns From All	Dual Pur Average of 51 farms	pose Cattle 10 Farms highest in returns above feed 1324	10 Farms lowest in returns above feed 2089
Fe Items Feeds per animal un Concentrates Hay and fodder Silage	it, lbs.	and Return	ns From All	Dual Pur Average of 51 farms 1477 3848	pose Cattle 10 Farms highest in returns above feed 1324 3291	10 Farms lowest in returns above feed 2089 4739
Feeds per animal un Concentrates Hay and fodder Silage Feed cost per anima	it, lbs.	and Return	ns From All	<u>Dual Pur</u> Average of 51 farms 1477 3848 3875	pose Cattle 10 Farms highest in returns above feed 1324 3291 4633	10 Farms lowest in returns above feed 2089 4739 4778
Feeds per animal un Concentrates Hay and fodder Silage Feed cost per anima Concentrates	it, lbs.	and Return	ns From All	Dual Pur Average of 51 farms 1477 3848 3875 \$11.78	pose Cattle 10 Farms highest in returns above feed 1324 3291 4633 \$10.78	10 Farms lowest in returns above feed 2089 4739 4778 \$16.42
Feeds per animal un Concentrates Hay and fodder Silage Feed cost per anima Concentrates Roughages	it, lbs.	and Return	ns From All	Dual Pur Average of 51 farms 1477 3848 3875 \$11.78 15.48	pose Cattle 10 Farms highest in returns above feed 1324 3291 4633 \$10.78 14.49	10 Farms lowest in returns above feed 2089 4739 4778 \$16.42 19.69
Feeds per animal un Concentrates Hay and fodder Silage Feed cost per anima Concentrates	it, lbs.	and Return	ns From All	Dual Pur Average of 51 farms 1477 3848 3875 \$11.78	pose Cattle 10 Farms highest in returns above feed 1324 3291 4633 \$10.78	10 Farms lowest in returns above feed 2089 4739 4778 \$16.42
Feeds per animal un Concentrates Hay and fodder Silage Feed cost per anima Concentrates Roughages Pasture TOTAL FEED CO	it, lbs. unit:		ns From All	Dual Pur Average of 51 farms 1477 3848 3875 \$11.78 15.40 6.11	pose Cattle 10 Farms highest in returns above feed 1324 3291 4633 \$10.78 14.49 _5.55	10 Farms lowest in returns above feed 2089 4739 4778 \$16.42 19.69
Feeds per animal un Concentrates Hay and fodder Silage Feed cost per anima Concentrates Roughages Pasture TOTAL FEED CO Value of produce pe	ed Costs it, lbs. l unit: STS r animal	and Return	ns From All	Dual Pur Average of 51 farms 1477 3848 3875 \$11.78 15.48 <u>6.11</u> \$33.37	<u>pose Cattle</u> 10 Farms highest in returns above feed 1324 3291 4633 \$10.78 14.49 <u>5.55</u> \$30.82	10 Farms lowest in returns above feed 2089 4739 4778 \$16.42 19.69 <u>6.64</u> \$42.75
Feeds per animal un Concentrates Hay and fodder Silage Feed cost per anima Concentrates Roughages Pasture TOTAL FEED CO Value of produce pe Dairy products	ed Costs it, lbs. l unit: STS r animal	and Return	ns From All	Dual Pur Average of 51 farms 1477 3848 3875 \$11.78 15.48 6.11 \$33.37 \$37.23	<u>pose Cattle</u> 10 Farms highest in returns above feed 1324 3291 4633 \$10.78 14.49 <u>5.55</u> \$30.82 \$51.43	10 Farms lowest in returns above feed 2089 4739 4778 \$16.42 19.69 <u>6.64</u> \$42.75 \$25.74
Fe Items Feeds per animal un Concentrates Hay and fodder Silage Feed cost per anima Concentrates Roughages Pasture TOTAL FEED CO Value of produce pe	ed Costs it, lbs. l unit: STS r animal value	and Return	ns From All	Dual Pur Average of 51 farms 1477 3848 3875 \$11.78 15.48 <u>6.11</u> \$33.37	<u>pose Cattle</u> 10 Farms highest in returns above feed 1324 3291 4633 \$10.78 14.49 <u>5.55</u> \$30.82 \$51.43	10 Farms lowest in returns above feed 2089 4739 4778 \$16.42 19.69 <u>6.64</u> \$42.75
Feeds per animal un Concentrates Hay and fodder Silage Feed cost per anima Concentrates Roughages Pasture TOTAL FEED CO Value of produce pe Dairy products Net increase in TOTAL VALUE P	ed Costs it, lbs. l unit: STS r animal value RODUCED	and Return	ns From All	Dual Pur Average of 51 farms 1477 3848 3875 \$11.78 15.48 6.11 \$33.37 \$37.23 20.40 \$57.63	<u>pose Cattle</u> 10 Farms highest in returns above feed 1324 3291 4633 \$10.78 14.49 <u>5.55</u> \$30.82 \$51.43 <u>24.27</u> \$75.70	10 Farms lowest in returns above feed 2089 4739 4778 \$16.42 19.69 <u>6.64</u> \$42.75 \$25.74 <u>16.71</u> \$42.45
Feeds per animal un Concentrates Hay and fodder Silage Feed cost per anima Concentrates Roughages Pasture TOTAL FEED CO Value of produce pe Dairy products Net increase in TOTAL VALUE P RETURNS ABOVE FEED	ed Costs it, lbs. it, lbs. l unit: STS r animal value RODUCED PER ANIM	and Return	s From All Your farm \$\$ \$\$ \$\$	Dual Pur Average of 51 farms 1477 3848 3875 \$11.78 15.48 6.11 \$33.37 \$37.23 20.40 \$57.63 \$24.26	pose Cattle 10 Farms highest in returns above feed 1324 3291 4633 \$10.78 14.49 <u>5.55</u> \$30.82 \$51.43 <u>24.27</u> \$75.70 \$44.89	10 Farms lowest in returns above feed 2089 4739 4778 \$16.42 19.69 <u>6.64</u> \$42.75 \$25.74 <u>16.71</u> \$42.45 \$30
Feeds per animal un Concentrates Hay and fodder Silage Feed cost per anima Concentrates Roughages Pasture TOTAL FEED CO Value of produce pe Dairy products Net increase in TOTAL VALUE P	ed Costs it, lbs. l unit: STS r animal value RODUCED PER ANIM, FEED	and Return	ns From All	Dual Pur Average of 51 farms 1477 3848 3875 \$11.78 15.48 6.11 \$33.37 \$37.23 20.40 \$57.63	<u>pose Cattle</u> 10 Farms highest in returns above feed 1324 3291 4633 \$10.78 14.49 <u>5.55</u> \$30.82 \$51.43 <u>24.27</u> \$75.70	10 Farms lowest in returns above feed 2089 4739 4778 \$16.42 19.69 <u>6.64</u> \$42.75 \$25.74 <u>16.71</u> \$42.45

\* Several farmers having both a dual purpose and a beef herd used a beef bull and included all the young stock in the beef herd.

L

Ϋ́́Ω		940	and the second
fa	ur Average rm of all farms	Farms highest in returns	Farms lowest in returns
Items		above feed	
Beef breeding herd: no. of farms:		<u> </u>	8
Feeds per animal unit, lbs.: Concentrates	1418	1535	1939
Legume hay Other hay Fodder and stover	1824 628 438	2757 319 722	2221 899 166
Silage Skimmilk* Whole milk*	2833 2833 345 79	1540 250 135	6808 205 59
Feed cost per animal unit: Concentrates	\$11.34	\$12.08	\$15.73
Roughages	11.19 1.53	13.15 2.25	16.58 .96
Pasture TOTAL FEED COSTS	<u>    5.80</u> \$29.86	<u>4.11</u> \$31.59	\$40.25
Value of produce per animal unit: Dairy products \$	\$ 7.00	\$17.28	\$ 1.41
Net increase in value of animals TOTAL VALUE PRODUCED \$	<u>41.06</u> \$48.06	<u>52.71</u> \$69.99	* <u>34.15</u> \$35.56
RETURNS ABOVE FEED COST PER ANIMAL UNIT \$	\$18,20	\$38.40	\$-4.69
RETURNS FOR \$100 OF FEED \$	\$172	\$237	\$95
Number of cows and herd bulls Number of animal units in the herd	23.1	16.3 24.8	12.4 22.4
Feeder cattle: no. of forms: Feeds per cwt. beef produced, lbs.:		15	15
Corn	506		
Small grain	<u> </u>	5 <u>34</u> 76	773 172
Com. fads - under 25% protein	110 8	76	172 13
Com. fe ds - under 25% protein Com. feeds - over 25% protein Legume hay	110	76	172
Com. fe ds - under 25% protein Com. feeds - over 25% protein	110 8 26	76 4 17	172 13 36
Com. fe ds - under 25% protein Com. feeds - over 25% protein Legume hay Other hay Fodder and stover Total concentrates Total dry roughages	110 8 26 270 64 44 740 378	76 4 17 230 43 55 631 328	172 13 36 262 135 29 994 426
Com. fe ds - under 25% protein Com. feeds - over 25% protein Legume hay Other hay Fodder and stover Total concentrates Total dry roughages Silage % of T.D.N. in ration that is protein	110 8 26 270 64 44 740 378	76 4 17 230 43 55 631	172 13 262 135 29 994
Com. fe ds - under 25% protein Com. feeds - over 25% protein Legume hay Other hay Fodder and stover Total concentrates Total dry roughages Silage % of T.D.N. in ration that is protein Feed cost per cwt. beef produced: Concentrates Roughages	110 8 26 270 64 44 740 378 555 11.7 \$ 5.92 1.70	76 4 17 230 43 55 631 328 398 11.6 \$ 5.04 1.39	172 13 36 262 135 29 994 426 1168 11.0 \$ 7.94 2.41
Com. fe ds - under 25% protein Com. feeds - over 25% protein Legume hay Other hay Fodder and stover Total concentrates Total dry roughages Silage % of T.D.N. in ration that is protein Feed cost per cwt. beef produced: Concentrates Roughages Pasture TOTAL FEED COSTS 3	$ \begin{array}{c} 110\\ 8\\ 26\\ 270\\ 64\\ 44\\ 740\\ 378\\ 555\\ 11.7\\ $5.92\\ 1.70\\ .38\\ $8.00\\ \end{array} $	76 4 17 230 43 55 631 328 398 11.6 \$ 5.04 1.39 .16 \$ 6.59	172 13 36 262 135 29 994 426 1168 11.0 \$ 7.94 2.41 .67 \$11.02
Com. fe ds - under 25% protein Com. feeds - over 25% protein Legume hay Other hay Fodder and stover Total concentrates Total dry roughages Silage % of T.D.N. in ration that is protein Feed cost per cwt. beef produced: Concentrates Roughages Pasture TOTAL FEED COSTS Net increase in value of feeders \$	$ \begin{array}{c} 110\\ 8\\ 26\\ 270\\ 64\\ 44\\ 740\\ 378\\ 555\\ 11.7\\ $5.92\\ 1.70\\ .38\\ $8.00\\ \end{array} $	76 4 17 230 43 55 631 328 398 11.6 \$ 5.04 1.39 .16	172 13 36 262 135 29 994 426 1168 11.0 \$ 7.94 2.41 .67 \$11.02
Com. fe ds - under 25% protein Com. feeds - over 25% protein Legume hay Other hay Fodder and stover Total concentrates Total dry roughages Silage % of T.D.N. in ration that is protein Feed cost per cwt. beef produced: Concentrates Roughages Pasture TOTAL FEED COSTS Net increase in value of feeders RETURNS ABOVE FEED COST PER CWT.BEEF PROD.	110 8 26 270 64 44 740 378 555 11.7 \$ 5.92 1.70 	76 $4$ $17$ $230$ $43$ $55$ $631$ $328$ $398$ $11.6$ $$5.04$ $1.39$ $16$ $$6.59$ $$13.31$	172 13 36 262 135 29 994 426 1168 11.0 \$ 7.94 2.41 .67 \$11.02 \$ 8.68
Com. fe ds - under 25% protein Com. feeds - over 25% protein Legume hay Other hay Fodder and stover Total concentrates Total dry roughages Silage % of T.D.N. in ration that is protein Feed cost per cwt. beef produced: Concentrates Roughages Pasture TOTAL FEED COSTS Net increase in value of feeders \$	110 8 26 270 64 44 740 378 555 11.7 \$ 5.92 1.70 .38 \$ 8.00 \$10.92	76 4 17 230 43 55 631 328 398 11.6 \$ 5.04 1.39 <u>16</u> \$ 6.59 \$13.31 \$ 6.72 \$213	172 13 36 262 135 29 994 426 1168 11.0 \$ 7.94 2.41 .67 \$11.02 \$ 8.68 \$-2.34 \$82

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

a. . .... 1010

Feed Costs and Returns fr Your farm	Average	Farms highest in returns	returns
Items and a second s		above feed	above feed
Farm flock: No. of farms:		11	11
Feeds per head,* lbs.: Concentrates Legume hay Other hay Fodder and stover Silage	75 208 60 46 142	28 126 78 76 181	105 277 74 46 138
Feed cost per head: Concentrates \$ Roughages Pasture TOTAL FEED COSTS \$\$	\$.6 <sup>1</sup> 1.08 <u>.88</u> \$2.60	\$ .24 .87 <u>1.00</u> \$2.11	\$ .86 1.33 <u>.88</u> \$3.07
Value of produce per head: Wool \$ Net increase in value of sheep TOTAL VALUE PRODUCED \$	\$2.09 <u>3.78</u> \$5.87	\$2.01 <u>6.36</u> \$8.37	\$2.45 _ <u>.35</u> \$2.80
RETURNS ABOVE FEED COST PER HEAD \$	\$3.27	\$6.26	\$27
RETURNS FOR \$100 OF FEED \$	\$246	\$406	\$92
Value per lamb sold \$ Price per lb. wool sold (cts.) Pounds of wool per sheep sheared Number of ewes kept for lambing % lamb crop % death loss	\$7.14 28.7 9.0 36.0 110.4 19.0	\$7.46 29.1 9.1 26.0 122.4 16.0	\$7.68 27.5 9.9 44.0 102.4 32.0
No. of head of sheep* (Farm flock)	<u>e es</u> ar e 54 <b>.</b> 8	47.1	53.1
Feeder sheep: no. of farms:		10	10
Feeds per cwt. sheep produced, lbs.: Concentrates Legume hay Other hay Fodder and stover Silage	622 326 72 62 99	455 331 52 80 152	788 322 91 45 47
Feed cost per head: Concentrates \$	\$4.76 1.55 	\$3.60 1.61 <u>.57</u> \$5.78	\$5.91 1.49 <u>1.13</u> \$8.53
Net increase in value of sheep \$\$	\$9.29	\$10,68	\$7.90
RETURNS ABOVE FEED COST PER CWT.PRODUCEDS	\$2,13	\$4.90	\$63
RETURNS FOR \$100 OF FEED** \$ Price per cwt. sheep sold \$	\$150 \$8.74	\$198 \$8.94	\$101 \$8,48
% death loss % of T.D.N. in ration that is protein Pounds of sheep produced	<b>3.</b> 5 13.0 6490	2.2 13.1 7068	4.5 12.8 5913

- 21 -

Two lambs under 6 mo. of age considered as one head.
 \*\* Five flocks were omitted from this statement because of very high death losses. The average returns for \$100 of feed for the 25 flocks was \$114.

Items	of all farms	Farms highest in returns above feed	lowest in returns
Hogs: no. of farms:	160	32 ····	32
Feed per cwt. hogs produced, lbs.: Corn		238	461
Small grain Com. feeds - under 25% protein	156 3	155 155	218
Com. feeds - over 25% protein	_ 11	11	11
Total concentrates Skimmilk and buttermilk	- 488 142	375 122	692 219
Feed cost per cwt. hogs produced: Concentrates	\$3.88	\$2,97	\$5.43
Skimmilk and buttermilk	.21 .20	.18 .18	.33
TOTAL FEED COSTS \$	\$4.29	\$3.33	\$5.98
Net incr. in value per cwt. hogs. prod.\$ RET. ABOVE FEED COST PER CWT.HOGS PROD.\$	\$ <u>5.52</u> \$1.23	\$ <u>6.01</u> \$2.68	\$ <u>5.08</u> \$90
RETURNS FOR \$100 OF FEED \$	\$137	\$183	\$89
Price received per cwt. hogs sold \$	\$5.15	\$5.50	\$4.98
Total no. of litters raised	14.0 6.2	15.9 6.9	11.5
% of two-litter systems Pounds of hogs produced	28.0 21907	31.0 26012	19.0 14887
Chickens: no. of farms:		29.	29
Feed per hen, lbs.: Concentrates Skimmilk and buttermilk	101 25	126 22	90 17
Feed cost per hen: Concentrates \$ Skimmilk and buttermilk TOTAL FEED COST \$	\$1.07 04 \$1.11	\$1.38 .03 \$1.41	\$.92 .03 \$.95
Value of produce per hen: Eggs sold and used in house \$ Net increase in value of chickens TOTAL VALUE PRODUCED \$	\$1,42 .65 \$2.07	\$1.78 <u>1.58</u> \$3.36	\$1.04 <u>0</u> \$1.04
RETURNS ABOVE FEED COST PER HEN \$	\$.96	\$1.95	\$.09
RETURNS FOR \$100 OF FEED \$ Price rec'd per doz. eggs sold (cts.) Eggs laid per hen No. of hens % of hens that are pullets	\$198 15.0 113 179 75	\$266 16.3 132 164 85	\$110 14.3 88 195 63

Feed Costs and Returns From Hogs and Chickens, 1940

- 55 -

Feed Costs and Ret	Your	Average	6 farms	6 farms
$-52 \epsilon_{\rm eff} = -4 \epsilon_{\rm eff} \epsilon_{\rm eff} + \epsilon_{\rm eff} \epsilon_{\rm eff}$	farm	of 12	highest	
n an	7 Ci 2 III	farms	returns	returns
tems			above fe	
eed per cwt. turkeys produced, 1bs.:				and an and a second
Grain			337	330
Com. feeds - under 25% protein		21	32	10
Com. feeds - over 25% protein		188		250
Total concentrates	i de la competencia de la comp	543	· · · ·	590
Skimmilk	se La constanta de la constante d		61	10
	ф	interna ann		
eed cost per cwt. turkeys produced	\$	\$7.27	\$6,17	\$8.38
alue of moduce non sut tunirous and	•	·		
alue of produce per cwt. turkeys prod Eggs and poults	•. ¢	1.65	2,78	<b>5</b> 1
Net increases in turkeys	Ψ		11.69	.51 11.04
TOTAL VALUE PRODUCED	¢	$\frac{11.36}{13.01}$	$\frac{11.09}{14.47}$	11.55
	۳		· <b>π</b>	±±,99
ETURNS ABOVE FEED COST PER CWT.				
TURKEYS PRODUCED	\$	5.74	8.30	3.17
	and the second of			
ETURNS FOR \$100 FEED	\$	\$214	\$285	\$143
			-	-
rice rec'd per 1b: turkey sold (cts.)	Kajaran (K. 1997) Marina (K. 1997)	14.4	14.6	14.2
	ta ay ang	- and the international of	and an and a second	
rice rec'd per 1b: turkey sold (cts.) ounds of turkeys produced	terrenter 1999 - Antonio Antonio Antonio 1999 - Antonio	- and the international of	14.6 22,248	
n an the second seco	ادر بر دید بر بر بر دید مربو بر در بر میکند مربو بر بر بر میکند مربو بر بر بر بر بر از میکند مربو بر بر بر بر بر از میکند مربو بر بر بر بر بر از میکند مربو بر بر بر بر بر بر از میکند مربو بر بر بر بر بر بر بر از میکند مربو بر بر بر بر بر بر بر از میکند مربو بر	- and the international of	and an and a second	
ounds of turkeys produced	California de la companya	25,124	22,248	28,000
ounds of turkeys produced Feed Costs for <sup>H</sup> orses and Mis	c. Power :	25,124	22,248	28,000
ounds of turkeys produced Feed Costs for Horses and Mis	<u>c. Power</u> ; Your	25,124	22,248 y Expense 32 most	28,000 , 1940 32 least
ounds of turkeys produced Feed Costs for Horses and Mis	c. Power :	25,124 and Machiner Average of 163	22,248 <u>y Expense</u> 32 most profit-	28,000 , 1940 32 least profit-
ounds of turkeys produced Feed Costs for <sup>H</sup> orses and Mis	<u>c. Power</u> ; Your	25,124	22,248 y Expense 32 most profit- able	28,000 , 1940 32 least profit- able
ounds of turkeys produced Feed Costs for Horses and Mis tems	<u>c. Power</u> ; Your	25,124 and Machiner Average of 163	22,248 <u>y Expense</u> 32 most profit-	28,000 , 1940 32 least profit-
ounds of turkeys produced Feed Costs for Horses and Mis tems	<u>c. Power</u> ; Your	25,124 and Machiner Average of 163 farms*	22,248 <u>y Expense</u> 32 most profit- able farms*	28,000 ; 1940 32 least profit- able farms*
ounds of turkeys produced Feed Costs for Horses and Mis tems eed per horse,** lbs.:	<u>c. Power</u> ; Your	25,124 and Machiner Average of 163 farms* 2093	22,248 y Expense 32 most profit- able farms* 2308	28,000 , 1940 32 least profit- able
ounds of turkeys produced Feed Costs for Horses and Mis tems eed per horse,** lbs.: Grain	<u>c. Power</u> ; Your	25,124 and Machiner Average of 163 farms* 2093 3459	22,248 <u>y Expense</u> 32 most profit- able farms*	28,000 , 1940 32 least profit- able farms* 2155
ounds of turkeys produced Feed Costs for Horses and Mis tems eed per horse,** lbs.: Grain Hay Fodder and stover	<u>c. Power</u> ; Your	25,124 and Machiner Average of 163 farms* 2093	22,248 y Expense 32 most profit- able farms* 2308	28,000 , 1940 32 least profit- able farms* 2155 4022
ounds of turkeys produced Feed Costs for Horses and Mis tems eed per horse,** lbs.: Grain Hay Fodder and stover	<u>c. Power</u> ; Your	25,124 and Machiner Average of 163 farms* 2093 3459	22,248 y Expense 32 most profit- able farms* 2308	28,000 , 1940 32 least profit- able farms* 2155 4022
ounds of turkeys produced Feed Costs for Horses and Mis tems eed per horse,** lbs.: Grain Hay Fodder and stover eed costs per horse: Grain \$	<u>c. Power</u> ; Your	25,124 and Machiner Average of 163 farms* 2093 3459 183	22,248 y Expense 32 most profit- able farms* 2308	28,000 , 1940 32 least profit- able farms* 2155 4022
ounds of turkeys produced Feed Costs for Horses and Mis tems eed per horse,** lbs.: Grain Hay Fodder and stover eed costs per horse:	<u>c. Power</u> ; Your	25,124 and Machiner Average of 163 farms* 2093 3459 183 \$16.74	22,248 <u>y Expense</u> 32 most profit- able farms* 2308 3372 200 \$19.02	28,000 ; 1940 32 least profit- able farms* 2155 4022 250 \$16.31
ounds of turkeys produced Feed Costs for Horses and Mis tems eed per horse,** lbs.: Grain Hay Fodder and stover eed costs per horse: Grain Koughage	<u>c. Power</u> ; Your	25,124 and Machiner Average of 163 farms* 2093 3459 183	22,248 y Expense 32 most profit- able farms* 2308 3372 200	28,000 ; 1940 32 least profit- able farms* 2155 4022 250 \$16.31 10.54
ounds of turkeys produced Feed Costs for Horses and Mis tems eed per horse,** lbs.: Grain Hay Fodder and stover eed costs per horse: Grain <sup>k</sup> oughage asture	<u>c. Power</u> ; Your	25,124 and Machiner Average of 163 farms* 2093 3459 183 \$16.74 9.35	22,248 <u>y Expense</u> 32 most profit- able farms* 2308 3372 200 \$19.02	28,000 ; 1940 32 least profit- able farms* 2155 4022 250 \$16.31
ounds of turkeys produced Feed Costs for Horses and Miss tems eed per horse,** lbs.: Grain Hay Fodder and stover eed costs per horse: Grain Koughage	<u>c. Power</u> ; Your	25,124 and Machiner Average of 163 farms* 2093 3459 183 \$16.74 9.35	22,248 <u>y Expense</u> 32 most profit- able farms* 2308 3372 200 \$19.02	28,000 , 1940 32 least profit- able farms* 2155 4022 250 \$16.31 10.54
ounds of turkeys produced Feed Costs for Horses and Mis tems eed per horse,** lbs.: Grain Hay Fodder and stover eed costs per horse: Grain houghage asture TOTAL FEED COSTS \$	<u>c. Power</u> ; Your	25,124 and Machiner Average of 163 farms* 2093 3459 183 \$16.74 9.35 3.65 29.74	22,248 y Expense 32 most profit- able farms* 2308 3372 200 \$19.02 9.89 3.98	28,000 , 1940 32 least profit- able farms* 2155 4022 250 \$16.31 10.54
ounds of turkeys produced Feed Costs for Horses and Mis tems eed per horse,** lbs.: Grain Hay Fodder and stover eed costs per horse: Grain Koughage asture TOTAL FEED COSTS umber of work horses	<u>c. Power</u> ; Your	25,124 and Machiner Average of 163 farms* 2093 3459 183 \$16.74 9.35	22,248 y Expense 32 most profit- able farms* 2308 3372 200 \$19.02 9.89 3.98	28,000 , 1940 32 least profit- able farms* 2155 4022 250 \$16.31 10.54
ounds of turkeys produced Feed Costs for Horses and Mis tems eed per horse,** lbs.: Grain Hay Fodder and stover eed costs per horse: Grain Koughage asture TOTAL FEED COSTS umber of work horses	<u>c. Power</u> ; Your	25,124 and Machiner Average of 163 farms* 2093 3459 183 \$16.74 9.35 3.65 29.74	22,248 <u>y Expense</u> 32 most profit- able farms* 2308 3372 200 \$19.02 9.89 3.98 32.89	28,000 , 1940 32 least profit- able farms* 2155 4022 250 \$16.31 10.54
ounds of turkeys produced Feed Costs for Horses and Mis tems eed per horse,** lbs.: Grain Hay Fodder and stover eed costs per horse: Grain Koughage asture TOTAL FEED COSTS umber of work horses umber of colts	<u>c. Power</u> ; Your	25,124 and Machiner Average of 163 farms* 2093 3459 183 \$16.74 9.35 3.65 29.74	22,248 <u>y Expense</u> 32 most profit- able farms* 2308 3372 200 \$19.02 9.89 3.98 32.89	28,000 , 1940 32 least profit- able farms* 2155 4022 250 \$16.31 10.54
ounds of turkeys produced Feed Costs for Horses and Mis tems eed per horse,** lbs.: Grain Hay Fodder and stover eed costs per horse: Grain houghage asture TOTAL FEED COSTS umber of work horses umber of colts rop acres per farm	<u>c. Power</u> ; Your	25,124 and Machiner Average of 163 farms* 2093 3459 183 \$16.74 9.35 3.65 29.74 4.2 1.0 213.1	22,248 <u>y Expense</u> 32 most profit- able farms* 2308 3372 200 \$19.02 9.89 3.98 32.89	28,000 <u>, 1940</u> <u>32 least</u> profit- able farms* 2155 4022 250 \$16.31 10.54 3.33 30.18 4.6 1.1 171.4
ounds of turkeys produced Feed Costs for Horses and Mis tems eed per horse, ** lbs.: Grain Hay Fodder and stover eed costs per horse: Grain Koughage asture TOTAL FEED COSTS umber of work horses umber of colts rop acres per farm ractor and horse exp. per crop acre \$	<u>c. Power</u> ; Your	25,124 and Machiner Average of 163 farms* 2093 3459 183 \$16.74 9.35 3.65 29.74 4.2 1.0	22,248 y Expanse 32 most profit- able farms* 2308 3372 200 \$19.02 9.89 3.98 32.89 4.6 .9	28,000 ; 1940 32 least profit- able farms* 2155 4022 250 \$16.31 10.54
ounds of turkeys produced Feed Costs for Horses and Mis tems eed per horse,** lbs.: Grain Hay Fodder and stover eed costs per horse: Grain Koughage asture	<u>c. Power</u> ; Your	25,124 and Machiner Average of 163 farms* 2093 3459 183 \$16.74 9.35 3.65 29.74 4.2 1.0 213.1	22,248 y Expanse 32 most profit- able farms* 2308 3372 200 \$19.02 9.89 3.98 32.89 4.6 .9 308.9	28,000 <u>, 1940</u> <u>32 least</u> profit- able farms* 2155 4022 250 \$16.31 10.54 3.33 30.18 4.6 1.1 171.4

\* Two farms did not have horses, \*\* Two colts equal one horse.

ъл. "

Farm	Produce	Used	in	House	and	House	Rental.	19	40

		Quant	ities			Valu	e	
$\begin{array}{c} \mathbf{x}_{1}, \mathbf{x}_{2}, \mathbf{x}_{3}, \mathbf{x}_{3},$	Your farm	165	profit-	33 least profit-	Your farm	Average 165	profit-	profit-
Items		farms	able	able farms		farms	able farms	able farms
<u>+ 0 61112</u>			farms	1 arms	de er <del>a</del> graag stjondelike 18.	and a state of the same of	18,1005	<u> </u>
Wholemilk		1083 qts.	1336	1285 \$	тан са 3 с. 1 с. 4 с. 1 с.	\$29.23	\$34.66	\$35.32
Skimmilk	: 	492 ots.	627	213		1.58	2.02 -	.72
Cream		307 pts.		306		27.92	29.55	.27.78
Farm made butt	er	15 lbs.	. 18	13	1.	4,43	5.30	3.73
Eggs	•	172 doz.	199	151		25.35	30.32	22,11
Cattle		408 lbs.	489	246		30.84	39.44	18.36
Hogs		585 lbs.		501		30.49	38.15	25.87
Sheep		13 lbs.	5	42	*****	.86	.40	2.33
Poultry	1 A 📢	134 lbs.		134		14.81	16.30	14.82
Potatoes	and the second	18 bu.	21	í7	*****	10.93	12.91	10.25
Vegetables & f	ruits	•				39.11	43.14	36.13
Farm fuel						28.29	32.64	27.39
Rental vl.of h	ouse				****************			250.06
Misc. (wool, hon			en e			.05	0	.26
Total	· y				5-00 <sup></sup>	483.09	555.29	475.13
1								

, line

Household and Personal Expenses For

the second se	ur Average rm of 131 farms	26 most profit- able farms	26 least profit- able farms
Jumber of persons - family	4,6	5.4	4.2
lumber of persons, (Family adult equivalent ( Other*	3.5	4.3 1.0	3.2 .8
ood and meals bought       \$	\$330 130 176 63 117 102 98 109 104 34 110 248	\$390 173 236 82 144 168 155 229 129 34 195 486	\$298 112 147 57 95 65 71 73 107 32 84 112
otal household and personal cash expenses	1,621	2,421	1,253
ood furnished by the farm uel furnished by the farm louse rental	216 28 245	261 34 285	203 26 245
otal household and personal expenses	2,110	3,001	1,727

Miscellaneous Informat	Brown		- Fari-		i Lincol:	n Taton
Item: .	DT.OMIT	wood	- Fari- bault	Jackson		ц цу ОП
Operator's labor earnings	\$2008	\$2120	\$1775	\$21.48	\$2341	\$1550
Total farm sales	8368	8548	9480	7153	6953	6909
Total farm purchases	6052	6718	7865	4417	3766	4781
rolent term burdtenbob	00,00	01-0	1007	1 1 4 1	5100	101
Average farm inventory	\$29924	\$28924	\$32838	\$28449	\$28870	\$31836
Total acres in small grain	83.3	112.3	85.5	92.6	155.7	132.8
Total acres in cultivated crops '	55.1	63.3	71.5	61.6		83.5
Total acres in fillable hay	21.5	25.0	28.0	24.2	21.3	27.1
Total acres in tillable pasture	16.7	23.0	23.4	14.8	25.0	23.0
Total acres in farm	223.6	254.3	242.9	228.5	383.4	334.4
% land tillable	77.8	88.3	84.9	84.1	75.8	84.0
Animal units of productive livestock	54:1	45.2	57.4	48.2	50.3	18.8
% of prod. animal units that are dairy	-					
and dual purpose cows	23:6	· 21.6	18.1	20.4	25.9	29.2
other dairy and dual purpose cattle	12.6	15.2	11.4	13.0	13.8	14.3
beef cattle - breeding herd	1.2	.9	13.9	13.5	24.7	8.7
beef cattle - feeder	26.6	31.8	17.0	20.2	3.0	10.7
sheep - farm flock	3.0			4.2		8.Ò
sheep - feeders	Ó	1.7	5.3	3.5	0	2.6
hogs	22.1	15.8	21.6	21.0	18.9	20.7
turkeys	6.8		.5	1.2	0,	0
hens	4.1	6.8	3.4	3.0	24.7	5.9
		Martin			Red-	Waton-
					Wood	wan
Operator's labor earnings		\$2127	\$2111	\$2607	\$2314	\$1785
Total farm sales		9464	6849	10699	10083	5655
Total farm purchase		<b>5</b> 333	4137	8320	7398	4160
	•		,	In a second	5	
Average farm inventory		\$35761	\$26269	\$36268	339356	\$30211
• • • • • • • • • • • • • • • • • • • •					- (	70.0
Total acres in small grain		75.4	1166	110.8	168.5	78.0
Total acres in cultivated crops			115.5		~~ ~	
		85.5	65.0	80.9	88.8	
Total acres in tillable hav		85.5 19.0	65.0 26.0	80.9 32.9	36.9	23.5
Total acres in tillable hay Total acres in tillable pasture	مى بىرىك بىرىكى بىرى	85.5 19.0 27.3	65.0 26.0 22.6	80.9 32.9 27.9	36.9 27.3	23.5 28.2
Total acres in tillable hay Total acres in tillable pasture Total acres in farm		85.5 19.0 - 27.3 230.0	65.0 26.0 22.6 266.4	80.9 32.9 27.9 285.9	36.9 27.3 399.3	23.5 28.2 240.2
Total acres in tillable hay Total acres in tillable pasture		65.5 19.0 27.3 230.0 90.2	65.0 26.0 22.6 266.4 86.0	80.9 32.9 27.9 285.9 88.8	36.9 27.3 399.3 86.1	23.5 28.2 240.2 80.1
Total acres in tillable hay Total acres in tillable pasture Total acres in farm		85.5 19.0 - 27.3 230.0	65.0 26.0 22.6 266.4	80.9 32.9 27.9 285.9	36.9 27.3 399.3	23.5 28.2 240.2 80.1
Total acres in tillable hay Total acres in tillable pasture Total acres in farm % land tillable Animal units of productive livestock % of prod. animal units that are dairy		65.5 19.0 27.3 230.0 90.2 54.4	65.0 26.0 22.6 265.4 86.0 43.7	80.9 32.9 27.9 285.9 88.8 70.3	36.9 27.3 399.3 86.1 79.2	23.5 28.2 240.2 80.1 39.1
Total acres in tillable hay Total acres in tillable pasture Total acres in farm % land tillable Animal units of productive livestock % of prod. animal units that are dairy and dual purpose cows		85.5 19.0 27.3 230.0 90.2 54.4 18.6	65.0 26.0 22.6 266.4 86.0 43.7 22.6	80.9 32.9 27.9 285.9 88.8 70.3 20.0	36.9 27.3 399.3 86.1 79.2 23.0	23.5 28.2 240.2 80.1 39.1 21.4
Total acres in tillable hay Total acres in tillable pasture Total acres in farm % land tillable Animal units of productive livestock % of prod. animal units that are dairy		65.5 19.0 27.3 230.0 90.2 54.4	65.0 26.0 22.6 265.4 86.0 43.7 22.6 14.1	80.9 32.9 27:9 285.9 88.8 70.3 20.0 13.3	36.9 27.3 399.3 86.1 79.2 23.0 12.2	23.5 28.2 240.2 80.1 39.1 21.4 10.3
Total acres in tillable hay Total acres in tillable pasture Total acres in farm % land tillable Animal units of productive livestock % of prod. animal units that are dairy and dual purpose cows		85.5 19.0 27.3 230.0 90.2 54.4 18.6	65.0 26.0 22.6 266.4 86.0 43.7 22.6	80.9 32.9 27.9 285.9 88.8 70.3 20.0	36.9 27.3 399.3 86.1 79.2 23.0 12.2 5.4	23.5 28.2 240.2 80.1 39.1 21.4 10.3 20.5
Total acres in tillable hay Total acres in tillable pasture Total acres in farm % land tillable Animal units of productive livestock % of prod. animal units that are dairy and dual purpose covs other dairy and dual purpose cattle		55.5 19.0 27.3 230.0 90.2 54.4 18.6 12.7	65.0 26.0 22.6 265.4 86.0 43.7 22.6 14.1	80.9 32.9 27:9 285.9 88.8 70.3 20.0 13.3	36.9 27.3 399.3 86.1 79.2 23.0 12.2 5.4 24.5	23.5 28.2 240.2 80.1 39.1 21.4 10.3 20.5
Total acres in tillable hay Total acres in tillable pasture Total acres in farm % land tillable Animal units of productive livestock % of prod. animal units that are dairy and dual purpose cows other dairy and dual purpose cattle beef cattle - breeding herd beef cattle - feeders	- 	55.5 19.0 27.3 230.0 90.2 54.4 18.6 12.7 13.6 17.3	65.0 26.0 22.6 265.4 86.0 43.7 22.6 14.1 12.9	80.9 32.9 27.9 265.9 86.8 70.3 20.0 13.3 9.8	36.9 27.3 399.3 86.1 79.2 23.0 12.2 5.4	23.5 28.2 240.2 80.1 39.1 21.4 10.3 20.5 1.6
Total acres in tillable hay Total acres in tillable pasture Total acres in farm % land tillable Animal units of productive livestock % of prod. animal units that are dairy and dual purpose covs other dairy and dual purpose cattle beef cattle - breeding herd beef cattle - feeders sheep - farm flock		55.5 19.0 27.3 230.0 90.2 54.4 18.6 12.7 13.5	65.0 26.0 22.6 266.4 86.0 43.7 22.6 14.1 12.9 20.6 2.7	80.9 32.9 27.9 285.9 88.8 70.3 20.0 13.3 9.8 15.3 2.0	36.9 27.3 399.3 86.1 79.2 23.0 12.2 5.4 24.5	23.5 28.2 240.2 80.1 39.1 21.4 10.3 20.5 1.6 5.7
Total acres in tillable hay Total acres in tillable pasture Total acres in farm % land tillable Animal units of productive livestock % of prod. animal units that are dairy and dual purpose covs other dairy and dual purpose cattle beef cattle - breeding herd beef cattle - feeders sheep - farm flock sheep - feeders		55.5 19.0 27.3 230.0 90.2 54.4 18.6 12.7 13.5 17.3 5.6 .1	65.0 26.0 22.6 265.4 86.0 43.7 22.6 14.1 12.9 20.6 2.7 5.0	80.9 32.9 27.9 285.9 88.8 70.3 20.0 13.3 9.8 15.3 2.0 9.1	36.9 27.3 399.3 86.1 79.2 23.0 12.2 8.4 24.5 5.4	23.5 28.2 240.2 80.1 39.1 21.4 10.3 20.5 1.6 5.7 5.9
Total acres in tillable hay Total acres in tillable pasture Total acres in farm % land tillable Animal units of productive livestock % of prod. animal units that are dairy and dual purpose cows other dairy and dual purpose cattle beef cattle - breeding herd beef cattle - feeders sheep - farm flock sheep - feeders hogs	- 	55.5 19.0 27.3 230.0 90.2 54.4 18.6 12.7 13.8 17.3 5.6 .1 27.8	65.0 26.0 22.6 266.4 86.0 43.7 22.6 14.1 12.9 20.6 2.7	80.9 32.9 27.9 285.9 88.8 70.3 20.0 13.3 9.8 15.3 2.0 9.1 21.1	36.9 27.3 399.3 86.1 79.2 23.0 12.2 5.4 24.5 5.4 1.7	59.3 23.5 28.2 240.2 80.1 39.1 21.4 10.3 20.5 1.6 5.7 5.9 23.7 6.6
Total acres in tillable hay Total acres in tillable pasture Total acres in farm % land tillable Animal units of productive livestock % of prod. animal units that are dairy and dual purpose covs other dairy and dual purpose cattle beef cattle - breeding herd beef cattle - feeders sheep - farm flock sheep - feeders	- 	55.5 19.0 27.3 230.0 90.2 54.4 18.6 12.7 13.5 17.3 5.6 .1	65.0 26.0 22.6 265.4 86.0 43.7 22.6 14.1 12.9 20.6 2.7 5.0 17.7	80.9 32.9 27.9 285.9 88.8 70.3 20.0 13.3 9.8 15.3 2.0 9.1	36.9 27.3 399.3 56.1 79.2 23.0 12.2 5.4 24.5 5.4 1.7 21.2	23.5 28.2 240.2 80.1 39.1 21.4 10.3 20.5 1.6 5.7 5.9 23.7

Miscellaneous Information - Averaged by Counties - 1940

- 25 -

Crop yields - % 6 % till. land in H Index of ret. fro Amount of livesto Work units Work units per work Expenses per work Yield per acre, 1 Yield per acre, 1	nigh ret. c: om livestoch ock per 100 orker	х А.	110 36.4 106 26.1 566	101 37.6 95 22.0 489	105 40.6 98 26.3	107 36.4 100 23.0	89 31.3 105	89 32.5 88
Work units Work units per work Expenses per work Yield per acre, t Yield per acre, t	orker .		566			23.0	15 6	
Yield per acre, 1	1. A. A. A.	e., <b>,</b> 11	249 \$2.29	247 \$2.35	529 280 \$2,26	504 235	665 266 \$1.87	14.5 561 244 \$2.15
Yield per acre, o Yield per acre, o Yield per acre, o Yield per acre, a	barley, bu. bats, bu. corn, grain, corn silage,	, bu. , tons	10.2	14.8 45.8 68.6 47.5 9.3 1.7	13.6 47.4 59.5 48.9 8.3 2.5	15.6 47.5 61.7 50.0 10.0 2.1	11.9 33.0 57.4 41.9 6:5 1.4	9.7 34.6 54.0 43.4 6.8 1.8
		· · · · · · · · · · · · · · · · · · ·	Martin	n Murr	av Nob	les Re	dwood W	Vatonw
Crop yields - % c % till. land in h Index of ret. fro	ligh ret. cr		109 37.8 105	37.	2 34	01 .8 3 05	91 3.1 93	110 34.1 98
Amount of livesto Work units Work units per work Expenses per work	rker	A.	25.4 592 264 \$2.00	56 30	1 6 6 a	142 180		18.8 479 266 52.06
Yield per acre, f Yield per acre, b Yield per acre, c Yield per acre, c Yield per acre, c Yield per acre, a	arley, bu. ats, bu. orn, grain, orn silage,	bu. tons	13.6 55.0 66.8 51.2 9.5 2.2	57. 35. 7.	2 49 2 53 4 44 4 8	.2 3 .4 5 .0 4	2.8 7.6 2.6 4.9 7.7 2.0	$13.0 \\ 37.4 \\ 68.6 \\ 49.9 \\ 6.9 \\ 2.4 $
								•
				·				

. . .

2.7 , . . .

•

- 26 -