

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
<a href="http://ageconsearch.umn.edu">http://ageconsearch.umn.edu</a>
<a href="mailto:aesearch@umn.edu">aesearch@umn.edu</a>

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

Dakota, Dodge, Freeborn, Goodhue, Le Sueur, Mower, Nicollet, Olmsted, Rice, Scott, Steele, Wabasha, Waseca, and Winona Counties

Cooperating

Annual Report

of the

Southeastern Minnesota Farm Management Service

1951

Cooperator:

Mimeographed Report No. 195
Division of Agricultural Economics
University Farm
St. Paul 1, Minnesota
April 1952

#### INDEX

Introduction	. 1
Summary of Farm Inventories	. 3
Summary of Farm Earnings (Cash Statement)	. 4
Summary of Farm Earnings (Enterprise Statement)	. 5
Net Worth Statement	
Summary of Farm Earnings by Tenure (Operator's Share)	. 7
Household and Personal Expenses	
Family Living from the Farm	. 9
Cumulative Effect From Excelling in a Number of Management Factors	. 9
Meaures of Farm Organization and Management Efficiency	10
Thermometer Chart	. 11
Distribution of Acres in Farm	.12
Yield of Crops	. 13
Average Price of Feeds	. 13
Feed Costs for Horses	14
Fower and Machinery Expenses per Crop Acre	14
Total Feed Costs and Returns from Your Livestock Enterprise	. 14
Feed Costs and Returns From Hogs	.15
Feed Costs and Returns from Dairy Cows	16
Feed Costs and Returns from Other Dairy Cattle	. 17
Feed Costs and Returns from All Dairy Cattle	, 17
Feed Costs and Returns from Dual Purpose Cows	18
Feed Costs and Returns from Other Dual Purpose Cattle,	
Feed Costs and Returns from All Dual Purpose Cattle	
Feed Costs and Returns from Beef Cattle	20
Feed Costs and Returns from Sheep	21
Feed Costs and Returns from Chickens	. 22
Feed Costs and Returns from Chicks	23
Feed Costs and Returns from Laying Hens	23
Feed Costs and Returns from Turkeys	24
Explanation of "Work Units"	24
Summary of Years 1928-1951	, 25
Notes	, 28

Twenty-fourth Annual Report of the Farm Management Service of Dakota, Dodge, Freeborn, Goodhue, Le Sueur, Mower, Nicollet, Olmsted, Rice, Scott, Steele, Wabasha, Waseca, and Winona Counties for the year 1951.

Prepared by T. R. Nodland, H. G. Routhe and G. A. Pond

#### INTRODUCTION

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

General administration of this project, analysis of the records and preparation of the reports is handled by the Division of Agricultural Economics under the direction of G. A. Pond and T. R. Nodland. Extension work in connection with the project is handled by S. B. Cleland. Harvey Bjerke was the field agent for this project. At the end of the year, B. F. Stanton, S. A. Engene, R. M. Dennistoun and Neils Rorholm of the Division of Agricultural Economics aided in closing the records. County agricultural extension agents who cooperate in this project include C. O. Quie, V. Sander, R. E. Jacobs, G. J. Kunau, Russell Miller, Don Hasbargen, F. L. Liebenstein, F. E. Wetherill, Ray Aune, Warren Liebenstein, Chester Graham, J. R. Gute, Herbert Feldman, C. F. Murphy, Norman Mindrum, and Esbern Johnson.

The Southeast Minnesota Farm Management Association was organized in 1939 by the farmers cooperating in the S.E. Farm Management Service. This association now represents its membership as an additional cooperating agency to determine policies and especially to maintain the field organization and membership. Officers for 1951 were:

President: R. L. Zimmerman, Racine, Mower County Vice President: Wesley Pierson, Aldine, Freeborn County Secretary-Treasurer: George Williamson, Shakopee, Scott County

The board of directors included these officers and also the following: Sarah Holland, Dakota County; Harry Morton, Dodge County; Cameron Hayward, Goodhue County; Tmil Dietz, Le Sueur County; Sidney Johnson, Nicollet County; Tarl Kleinwort, Olmsted County; George Little, Rice County; Alvin Ebel, Scott County; Levern Wilker, Steele County; James Walker, Wabasha County; Ray Miller, Waseca County; and Marvin Simon, Winona County.

The following tabulation shows by counties the number of records submitted in 1951:

Dakota	8		Mower	8	Steele	17
Dodge	13		Nicollet	13	Wabasha	10
Freeborn	19		Olmsted	 15	Waseca	16
Goodhue	21		Rice	10	Winona	2
Le Sueur	5		Scott	5	Total	169

The table on page 4 and succeeding pages show 162 farms. Seven farms have been omitted from all the averages in the tables because they differed so widely in type from the others or the records were not sufficiently complete for a full analysis.

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

***	<u> Table</u>	1. Monthly	and Annual	Precipitation	on	
	Rocl	lester	Aus	stin	Fari	bault
	Precip-	Departure	Precip-	Departure	Precip-	Departure
	itation	from normal	itation	from normal	itation	from normal
	Inches	Inches	Inches	Inches	Inches	
	THOHES	THOLES	Tuches	rnenes	inches	Inches
January	. 85	25.	. 83	06	.64	04
February	2.03	#1.21	2.35	+1.43	1.90	+1.21
March	4.01	+2.53	4.23	+2.58	-2.92	+1.81
April	3.98	+1.62	4.05	+1.73	2.84	+ •93
May	3.17	61	3.16	-1.45	3.97	+ .77
June	5.50	+1.03	3.97	-1.25	6.74	+2.37
July	8.14	+4.87	1.91	-1.17	8.46	+5.11
August	4.56	+1.14	5.32	+1.07	6.25	+2.84
September	2.82	45	3.20	78	5.54	+2.09
October	2.73	+ .77	2.14	+ .28	1.83	25
November	1.80	+ .26	1.47	11	1.67	+ •33
December	. 80	18	1.13	+ .26	• 97	+ .29
1951 Total	40.39	+11.94	33.76	+2.53	1.3.73	+17.46
1950 Total	23.23	- 5.54	23.57	-7.66	23.79	- 2.48
1949 Total	26.60	- 2.17	24.12	-7.11	26.47	+ .20
1948 Total	25.75	- 3.04	27.57	-3.66	25.63	<u>- 1.64</u>

Very unusual weather and crop growing conditions characterized the year 1951 in Southeastern Minnesota. The winter during the early part of the year was the coldest since 1936 - 37 and the wettest since 1938 - 39. Southeast Minnesota during March had the greatest snowfall recorded by the weather bureau since records were started in 1891. These heavy snows caused heavy flooding and a wet soil condition which prevented spring work in the fields from starting before the 20th of April. The late spring and summer months were characterized by heavy and frequent rains, very cool weather, much less than normal sunshine and very slow development of corn and soybeans. This was the coolest summer since 1927 and the wettest since 1944. Because of the rains first cutting hay crops suffered considerable damage thru spoilage and poor quality. Pastures were good to excellent thruout the summer and fall months. Harvesting, and combining of small grains progressed slowly and although yields were average and higher the quality was low. Corn continued to develop slowly thruout the summer and fall with about 75% in the early dent stage when the killing frost hit on September 28th. Considerable soft corn was picked and subsequent spoilage was common. the third coldest fall on record.

Table 2. Summary of	ri st.		r farm	Average of	162 farms
Items	S v	Jan. 1	Dec.3	1 Jan. 1	Dec. 31
a		· · · · · · · · · · · · · · · ·	a for what	المحمد	1,
Size of farm (acres)			للمحولات وأرابيا	222	
Size of business (work units)**		**************************************		594	y miles
Dairy and dual purpose cows				\$ 2237	\$ 2588
Other dairy & dual purpose cattle	- F		****	1483	1843
Beef cattle (incl. feeders)		A.,	***************************************	1217	1790
Hogs				1520	1585
Sheep(including feeders)		***************************************	****	165	254
Poultry (including turkeys)	•		<del></del>	307	309
Productive livestock (total)		***************************************	***************************************		
Horses		************	Minustranian description descriptions	6929	8369
Crop, seed, and feed		****		75	67
				5043	5354
Power mach. (farm share)		<del></del>	·	2919	3166
Crop and general mach. (farm share)	1.	***********		3508	3958
Livestock equipment & supplies		**************************************		677	702
Mach. & equipment (total)		-	<del></del>	7104	7826
Miscellaneous			***********	12	12
Buildings, fences, etc.		***************************************	****	11499	12098
Land M.		***************************************	-	10139	10139
manuscript of the state of the					
Total farm capital				\$1:0801	\$4.2865
Total farm capital	· <del>Santa de Longue</del> d <del>a da</del>			\$40801	\$43865
Total farm capital	······································		Managarin sakan dan sakan		
Total farm capital	••••••••••••••••••••••••••••••••••••••	32 most pr		32 least 1	profitable
		farn	าธ	32 least p	orofitable rms
Total farm capital				32 least 1	profitable
Items		farn Jan, 1	าธ	32 least programme far Jan. 1	orofitable rms
Items Size of farm (acres)		farn Jan, 1 293	าธ	32 least programme fair fair fair fair fair fair fair fair	orofitable rms
Items		farn Jan, 1	าธ	32 least programme far Jan. 1	orofitable rms
Items Size of farm (acres) Size of business (work units)** Dairy & dual purpose cows		farn Jan, 1 293	าธ	32 least programme fair fair fair fair fair fair fair fair	orofitable rms
Items  Size of farm (acres)  Size of business (work units)**  Dairy & dual purpose cows  Other dairy & dual purpose cattle		farn Jan. 1 293 750	Dec. 31	32 least 1 far Jan. 1 196 491	orofitable rms Dec. 31
Items Size of farm (acres) Size of business (work units)** Dairy & dual purpose cows		farn Jan. 1 <b>293</b> 750 \$ 2613	Dec. 31 \$ 3151 2419	32 least 1 far  Jan. 1  196 491  \$ 1653 1086	profitable rms Dec. 31 \$ 2037 1320
Items  Size of farm (acres)  Size of business (work units)**  Dairy & dual purpose cows  Other dairy & dual purpose cattle  Beef cattle (incl. feeders)		farm Jan. 1  293 750 \$ 2613 2072 2419	\$ 3151 2419 3089	32 least 1 far  Jan. 1 196 491 \$ 1653 1086 1589	profitable rms Dec. 31 \$ 2037 1320 2217
Items  Size of farm (acres)  Size of business (work units)**  Dairy & dual purpose cows  Other dairy & dual purpose cattle		farm Jan. 1  293 750 \$ 2613 2072 2419 1875	\$ 3151 2419 3089 1997	32 least 1  fan. 1  196 491  \$ 1653 1086 1589 1576	profitable rms Dec. 31 \$ 2037 1320 2217 1501
Items  Size of farm (acres)  Size of business (work units)**  Dairy & dual purpose cows  Other dairy & dual purpose cattle  Beef cattle (incl. feeders)  Hogs  Sheep		farm Jan. 1  293 750  \$ 2613 2072 2419 1875 208	\$ 3151 2419 3089 1997 282	32 least 1  far  Jan. 1  196 491  \$ 1653 1086 1589 1576 141	\$ 2037 1320 2217 1501 332
Items  Size of farm (acres)  Size of business (work units)**  Dairy & dual purpose cows  Other dairy & dual purpose cattle  Beef cattle (incl. feeders)  Hogs  Sheep  Poultry		farm Jan. 1  293 750  \$ 2613 2072 2419 1875 208 278	\$ 3151 2419 3089 1997 282 278	32 least 1 far  Jan. 1  196 491  \$ 1653 1086 1589 1576 141 240	\$ 2037 1320 2217 1501 332 268
Items  Size of farm (acres)  Size of business (work units)**  Dairy & dual purpose cows  Other dairy & dual purpose cattle  Beef cattle (incl. feeders)  Hogs  Sheep  Poultry  Productive livestock (total)		farm  Jan. 1  293  750  \$ 2613  2072  2419  1875  208  278  9465	\$ 3151 2419 3089 1997 282 278 11216	32 least 1 far  Jan. 1  196 491  \$ 1653 1086 1589 1576 141 240 6285	\$ 2037 1320 2217 1501 332 268 7675
Items  Size of farm (acres)  Size of business (work units)**  Dairy & dual purpose cows  Other dairy & dual purpose cattle  Beef cattle (incl. feeders)  Hogs  Sheep  Poultry  Productive livestock (total)		farm Jan. 1  293 750  \$ 2613 2072 2419 1875 208 278 9465 96	\$ 3151 2419 3089 1997 282 278 11216 90	32 least 1 far  Jan. 1  196 491  \$ 1653 1086 1589 1576 141 240 6285 87	\$ 2037 1320 2217 1501 332 268 7675 81
Items  Size of farm (acres)  Size of business (work units)**  Dairy & dual purpose cows  Other dairy & dual purpose cattle  Beef cattle (incl. feeders)  Hogs  Sheep  Poultry  Productive livestock (total)  Horses  Crop, seed, and feed		farm Jan. 1  293 750  \$ 2613 2072 2419 1875 208 278 9465 96 7270	\$ 3151 2419 3089 1997 282 278 11216 90 8110	32 least 1  fan 1  196 491  \$ 1653 1086 1589 1576 141 240 6285 87 3987	\$ 2037 1320 2217 1501 332 268 7675 81 3783
Items  Size of farm (acres)  Size of business (work units)**  Dairy & dual purpose cows  Other dairy & dual purpose cattle  Beef cattle (incl. feeders)  Hogs  Sheep  Poultry  Productive livestock (total)  Horses  Crop, seed, and feed  Power mach. (farm share)		farm Jan. 1  293 750  \$ 2613 2072 2419 1875 208 278 9465 96 7270 3475	\$ 3151 2419 3089 1997 282 278 11216 90 8110 3777	32 least 1  far  Jan. 1  196 491  \$ 1653 1086 1589 1576 141 240 6285 87 3987 2953	\$ 2037 1320 2217 1501 332 268 7675 81 3783 3262
Items  Size of farm (acres)  Size of business (work units)**  Dairy & dual purpose cows  Other dairy & dual purpose cattle  Beef cattle (incl. feeders)  Hogs  Sheep  Poultry  Productive livestock (total)  Horses  Crop, seed, and feed  Power mach. (farm share)  Crop & general machinery		farm Jan. 1  293 750  \$ 2613 2072 2419 1875 208 278 9465 96 7270 3475 4526	\$ 3151 2419 3089 1997 282 278 11216 90 8110 3777 5031	32 least 1 far  Jan. 1  196 491  \$ 1653 1086 1589 1576 141 240 6285 87 3987 2953 3245	\$ 2037 1320 2217 1501 332 268 7675 81 3783 3262 3734
Items  Size of farm (acres) Size of business (work units)**  Dairy & dual purpose cows Other dairy & dual purpose cattle Beef cattle (incl. feeders) Hogs Sheep Poultry Productive livestock (total) Horses Crop, seed, and feed Power mach. (farm share) Crop & general machinery Livestock equipment & supplies		farm Jan. 1  293 750  \$ 2613 2072 2419 1875 208 278 9465 7270 3475 4526 763	\$ 3151 2419 3089 1997 282 278 11216 90 8110 3777 5031 711	32 least 1 far  Jan. 1  196 491  \$ 1653 1086 1589 1576 141 240 6285 87 3987 2953 3245 708	\$ 2037 1320 2217 1501 332 268 7675 81 3783 3262 3734 780
Items  Size of farm (acres)  Size of business (work units)**  Dairy & dual purpose cows  Other dairy & dual purpose cattle  Beef cattle (incl. feeders)  Hogs  Sheep  Poultry  Productive livestock (total)  Horses  Cron, seed, and feed  Power mach. (farm share)  Crop & general machinery  Livestock equipment & supplies  Mach. & equipment (total)		farm Jan. 1  293 750  \$ 2613 2072 2419 1875 208 278 9465 96 7270 3475 4526	\$ 3151 2419 3089 1997 282 278 11216 90 8110 3777 5031	32 least 1 far  Jan. 1  196 491  \$ 1653 1086 1589 1576 141 240 6285 87 3987 2953 3245	\$ 2037 1320 2217 1501 332 268 7675 81 3783 3262 3734
Items  Size of farm (acres) Size of business (work units)**  Dairy & dual purpose cows Other dairy & dual purpose cattle Beef cattle (incl. feeders) Hogs Sheep Poultry Productive livestock (total) Horses Crop, seed, and feed Power mach. (farm share) Crop & general machinery Livestock equipment & supplies Mach. & equipment (total) Miscellaneous		farm Jan. 1  293 750  \$ 2613 2072 2419 1875 208 278 9465 96 7270 3475 4526 763 8764	\$ 3151 2419 3089 1997 282 278 11216 90 8110 3777 5031 711 9519	32 least 1 far  Jan. 1  196 491  \$ 1653 1086 1589 1576 141 240 6285 87 3987 2953 3245 708 6906	\$ 2037 1320 2217 1501 332 268 7675 81 3783 3262 3734 780 7776
Items  Size of farm (acres) Size of business (work units)**  Dairy & dual purpose cows Other dairy & dual purpose cattle Beef cattle (incl. feeders) Hogs Sheep Poultry Productive livestock (total) Horses Crop, seed, and feed Power mach. (farm share) Crop & general machinery Livestock equipment & supplies Mach. & equipment (total) Miscellaneous Buildings, fences etc.		farm Jan. 1  293 750  \$ 2613 2072 2419 1875 208 278 9465 96 7270 3475 4526 763 8764 12726	\$ 3151 2419 3089 1997 282 278 11216 90 8110 3777 5031 711 9519	32 least 1 far  Jan. 1  196 491  \$ 1653 1086 1589 1576 141 240 6285 87 3987 2953 3245 708 6906 - 10460	\$ 2037 1320 2217 1501 332 268 7675 81 3783 3262 3734 780 7776
Items  Size of farm (acres) Size of business (work units)**  Dairy & dual purpose cows Other dairy & dual purpose cattle Beef cattle (incl. feeders) Hogs Sheep Poultry Productive livestock (total) Horses Crop, seed, and feed Power mach. (farm share) Crop & general machinery Livestock equipment & supplies Mach. & equipment (total) Miscellaneous		farm Jan. 1  293 750  \$ 2613 2072 2419 1875 208 278 9465 96 7270 3475 4526 763 8764	\$ 3151 2419 3089 1997 282 278 11216 90 8110 3777 5031 711 9519	32 least 1 far  Jan. 1  196 491  \$ 1653 1086 1589 1576 141 240 6285 87 3987 2953 3245 708 6906	\$ 2037 1320 2217 1501 332 268 7675 81 3783 3262 3734 780 7776

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

<sup>\*\*</sup>See page 24 for an explanation of "work units."

Table 3. Summary of Farm Earnings (Cash Statement), 1951

Table 3. Summary of Farm	<u> </u>	(Uash Stat	ement), 1951	
	Your	Average of 162	32 most <b>profit</b> äble	32 least profitable
Items FARM RECTITTS	farm	farms	farms	farms
Dairy and dual-purpose cows		\$ 1325	\$ 1747	\$ 1250
Dairy products		4500	6057	2620
Other dairy & dual-purpose cattle	mhograpasan artifoldshaa	900	1187	912
Reef cattle (including feeders)		1326	3483	1053
Hogs	****	4646	5677	4275
Sheep and wool (including feeders)	1	177	245	184
Poultry (including turkeys)	<del></del>	359	412	195
		152 <b>2</b>	1510	1002
Eggs Horses		10	7	
Corn	***************************************	444	930	15 292
	***************************************	461	747	285
Small grain Other crops				
		739	1063	552
Machinery & equip. sold		539	827	419 48
Agricultural adjustment payments	***************************************	60	78	
Income from work off the farm	-	370	517	267
Miscellaneous	***************************************	115	61	33
(1) Total farm sales		17493	24548	13402
(2) Increase in farm capital	*****	3064	3578	2823
(3) Family living from the farm		<u>816</u>	<u>891</u>	705
(4) Total farm receipts $(1)+(2)+(3)$	<del>various la sel unite las</del>	\$21373	\$29017	\$16930
FARM EXPENSES				
Dairy and dual-purpose cows bought		\$ 194	\$ 64	\$ 454
Other dairy & dual-our. cattle bought		196	147	359
Beef cattle bought (incl. feeders)	- American Company Company	881	1873	784
Fogs bought		219	203	367
Sheen bought (including feeders)	<del></del>	54	54	201
Poultry bought (including turkeys)		145	148	112
Horses bought	Printer septim estatement	5	2	8
Misc. livestock expenses	West of Special Participation and the second	327	421	259
Misc. crop expenses	<del></del>	876	1100	739
Feed bought		2299	2621	1873
Custom work hired	<del></del>	522	5 <b>1</b> 5	387
Mech. power mach. (farm share) (new)	****	1007		
	Construction of the second		1279 348	1109
Mech. power mach. (farm share) (upkn.)		273		287
Mech. power (farm share)(gas, 611, etc.)	the property and south the state of	914 1224	1164	858
Crop and general mach. (new)			1552	1131
Crop and general mach. (upkp.)	WA_WAYA_AAN	236	298	194
Livestock equipment (new)	10-11-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	156	91	195
Livestock equipment (unkeep)	*************	110	122	95
Buildings and fencing (new)	****	1218	867	1228
Buildings and fencing (unkeep)		359	44.8	273
Hired labor		885	1256	776
Taxes	<del></del>	583	772	533
General farm and insurance	**************************************	216	271	178
(5) Total farm purchases		12899	15616	12400
(6) Decrease in farm capital	***************************************		0/~0	444 14 July 20 July 14 July 20
(7) Interest on farm capital		2117	2672	1917
(8) Unpaid family labor	-	505	539	488
(9) Board furnished hired labor	***********	189	216	192
(10) Total farm exp. (sum of (5) to (9)		\$15710	\$19043	\$14997
(11) Operator's labor earnings (4) - (10	))	<b>\$</b> 5663	\$ 9974	\$ 1933

Table 4. Summary of Farm Earnings (Enterprise Statement) 1951\*

			Average	32 most	32 leas
		Your	of 162	profitable	profitable
I tems		farm	farms	farms	farms
RETURNS AND NET INCREASES					8 g 2, 15
Dairy and dual purpose of	ows	a set	\$5446	\$7416	\$3444
Other dairy & dual pur.	cattle	# 1	2089	2854	1618
Beef breeding herd	Mary Control	17.5	293	.57	733
Feeder cattle	men e e e e	#. * * <u>* * * * * * * * * * * * * * * * *</u>	675	1976	173
Hogs	Sec. 100	MIT I	4622	5912	3924
Sheep - farm flock and f	eeders	7 7 11 7 7 7	212	264	174
Turkeys	1.1.1		126	175	4
Chickens	A garage		1719	1731	.1188
All productive livestock	er to the contract of	The second secon	15182	20385	11258
Crops, seed and feed	• •	March with a service	-1350	-282	-1842
Agricultural conservation	payments		60	77	. 48
Income from labor off the		after a few species and a spec	232	336	, 129
Miscellaneous	4,000	2.5	277	257	223
(1) Total returns & net in	creases		14401	20773	9816
		1. 1. 1. 1. 1.		*	18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
The state of the s		$f = \mathcal{F}_{\mathcal{F}_{\mathcal{F}_{\mathcal{F}_{\mathcal{F}}}}}(f)$			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
EXPENSES AND NET DECREASES	<b>3</b>	Karajan metali			
Horses			\$61	\$76	\$78
Tractor			750	921	768
Truck		11.16	283	359	276
Auto (farm share)	1 to 3	15.00	<b>33</b> 3	374	371
Gas engine and elect.ex	o. (f.shar	e)	184	217	163
Hired power		*	236	25 <b>3</b>	149
Total power	3.7		1847	2200 <u>,</u>	1805
Crop and general machiner;	7		864	1072	770
Livestock equipment		• •	232	252	214
Buildings, fencing and ti	ling		816	970	634
Misc. productive livestoc			322	421	259
Labor	** <del>***</del>		1741	2169	1573
Real estate taxes	4, 2		458	622	424
Personal property tax		e supplied to the control of the con	125	150	109
Insurance	7.3		88	115	63
General farm		A series of the	128	156	115
Interest on farm capital	$C^{(n)}$		2117	2672	1917
(2) Total expenses & net	decreases		8738	10799	7883
(3) Oper. labor earnings		<del>- h</del>	5663	9974	1933

<sup>\*</sup>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.

Table 5. Net Worth Statement for Those Farmers Who Kept a Complete Record of All Assets and Liabilities. 1951 (Operator's Share)

	Your		44 Owners		
	Jan. 1	Dec. 31	Jan. 1	Dec. 31	
lotal acres in farm		enîr dinaven e dinaven e.	183.3		
Owned	*********	9. · · ·	183.3	$ x  + \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) \right) $	
Rented					
lotal farm capital			\$34877	\$37432	
Accounts receivable			415	419	
Stocks and bonds			2073	1974	
Life insurance	** .		1286	1364	
Outside real estate		<del></del>	1655	2934	
Other outside investments	to the t	Marie Marie Control of the Control o	368	394	
Cotal outside investments		***************************************	5382	6666	
Cash on hand and in bank		***************************************	462	751	
Other household & personal assets		***************************************	2055	2192	
Total cash, household & personal asset	s	****	2517	2943	
POTAL ASSETS		**************************************	43191	47460	
	-		1021	982	
Federal Land Bank Mortgage	-		3247	31.51	
Other mortgages on land operated		-			
Mortgages on other real estate		**************************************	231	774	
Production Credit Association	***************************************		349	330	
Sealed Grain	**************************************		105	29	
Other chattel mortgages			422	420	
Notes payable	Transportation and the		1 395	1343	
Accounts payable	Experience of the second secon		400	404	
TOTAL LIABILITIES			7170	7433	
Farmer's net worth			36021	40027	
Gain in net worth	•			+4006	
	17 part-	owners*	16 Rent	ers**	
	Jan. 1	Dec. 31	Jan. 1	Dec.	
Potal acres in farm	228.1		193,5	Service Co.	
Owner	132.0		-		
Rented	96.1	ea <sub>se</sub>	193.5		
Total farm capital	\$32431	\$36237	\$12338	\$1436	
Accounts receivable	825	972	555	99	
Stocks and bonds	1151	1136	990	100	
Life insurance	1282	1204	829	97	
	56	59	10	1	
Outside real estate		557	253	26	
Other outside investments	536		2082	~ 226	
Total outside investments	3025	2956		77	
Cash on hand and in bank	1008	1432	925		
Other household & personal assets	2202	2467	2719	286	
Total cash, household & personal asse	ts 3210	3899	3644	363	
TOTAL ASSETS	39491	44064	18619	2126	
Federal Land Bank Mortgage	<b>#</b>	•••	9	-	
Other mortgages on land operated	4603	4383	<del></del>		
Mortgages on other real estate	-		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
Production Credit Association	, <u></u>	•••	490	51	
Sealed grain	64		112	6	
Other chattel mortgages	712	1332	552	84	
	3150	3155	1618	145	
Notes payable	341	361	344	5	
Accounts payable	8870	9231	3116	340	
TOTAL LIABILITIES	υσγυ		<del></del>	-	
	2010	3/10 03	7 だだへつ	7722	
Farmer's net worth  Gain in net worth	30621	34833 +4212	15503	178: +23:	

<sup>\* 11</sup> rented for cash, 3 cash and crop share, 2 crop share and 2 livestock and crop share.

<sup>\*\*9</sup> rented for cash, 3 cash and crop share, and 9 livestock share,

Table 6. Summary of Farm Earnings by Tenure, 1951 (Operator's Share)

Table 6. Summary of Farm Earnings by	Tenure			Share)
	Your	44	17 part-	16
	farm	Owners	owners	renters
FARM RECEIPTS - 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4				
Dairy and dual purpose cows		\$ 1176	\$1727	\$ 752
Dairy products		4397	4639	3498
Other dairy and dual purpose cattle		801	964	547
Beef cattle (including feeders)		974	1127	213
Hogs:		4264	4388	2664
Sheep and wool (including feeders)	,	131	188	95
Poultry (including turkeys)		293	539	129
<b>Bggs</b> to the control of the control		1388	1652	1006
. Horses		43	4	5
Corn, the second of the second	Mag-temperature communication and the state of the state	373	72	194
Small grain	****	349	459	214
Other crops	***	450	755	341
Machinery & equipment sold	-	418	648	347
Agricultural adjustment payments	-	<i>5</i> 7	<i>5</i> 8	31
Income from work off the farm	fractions and an incidence of	478	371	532
Miscellaneous	***************************************	29	237	34
(1) total farm sales	olid ger geberg <del>, man</del> ger	15621	17828	10602
(2) increase in farm capital	-	2555	3806	2028
(3) family living from the farm		809	754	726
(4) total farm rec. (1)+(2)+(3)	****	18985	22388	13356
FARM EXPENSES		h ola	<b>a</b>	\$ 80
Dairy and dual purpose cows bought		\$ 241	\$ 355	
Other dairy & dual pur. cattle bought	-	240 680	239	166
Beef cattle bought (including feeders)		228	918	33
Hogs bought			107	277 10
Shoep bought (including feeders)	<del></del>	36	108	56
Poultry bought (including turkeys)	·	13	198	<i>μ</i>
Horses bought	***************************************	312	273	196
Misc. livestock expenses		837	905	427
Misc. crop expenses Feed bought	***********	2149	2707	1343
Custom work hired	***************************************	567	668	464
	***************************************	823	1286	1304
Mech. power mach. (farm share) (new) Mech. power mach. (farm share) (upkeep)		294	295	227
Mech. power (farm share) (gas, oil, etc.)		794	924	722
Crop and general mach. (new)		1060	1/196	698
Crop and general mach. (upkeep)		215	272	202
Livestock equipment (new)	***************************************	194	111	67
Livestock equipment (upkeep)		182	156	79
Land, buildings & fencing (new)	<del></del>	647	1138	104
Buildings and fencing (upkeep)	50	343	347	101
Hired labor		724	999	544
Taxes (real estate & pers. property)		443	37 <b>8</b>	95
General farm and insurance		195	222	133
Cash rent			<b>3</b> 98	697
Interest paid		282	<u>266</u>	<u> 123</u>
(5) Total farm purchases		11611	14661	8152
(6) Decrease in farm capital		•	<b></b>	
(7) Interest on farm capital		1526	1451	544
(8) Unpaid family labor		342	136	259
(9) Board furnished hired labor	<del></del>	142	271	<u> 168</u>
(10) Total farm exp. (sum of (5) to (9)		13621	16519	9123
(11) Operator's labor earn. (4) - (10)	*********	5364	5869	4233
(12) Ret. cap. & family lab.(7)+(8)+(11)	****	7232	7456	5036

: Table 7. Household and Personal Expenses for

Those Farms Which Kept Complete Accounts of These Expenses, 1951 16 most 16 least profit-Average profit-Your of 79 able able farm farms farms farms Number of persons - family 4.3 4.5 5.0 Number of adult equiv. - family 3.1 3.7 • 5 •6 Food and meals bought \$714 \$727 \$632 Operating and supplies 254 285 291 328 Clothing and clothing materials 322 281 68 Personal care, personal spending 96 159 Furnishings and equipment 278 359 258 147 166 Education, recreation and development 111 255 188 Medical care and health insurance 304 Church, welfare, gifts 263 359 160 84 Personal share of auto expense 124 139 Household share of elect. & gas eng. exp. 96 51 75 H.H. &pers. shr. of new auto, gas eng. &motors bot. 166 Total cash living expenses 2297 \$186 \$232 State and Federal income taxes \$159 Insurance 211 211 193 3128 3559 Total household and personal cash exp. 652 493 490 Food furnished by the farm 2 Fuel furnished by the farm 15 6 House rental Total cash expenses & perquisites 3358 Purchase of stocks, bonds, and other invest. 168 359 203 Receipts: 228 179 Income from investments 371 170 12 123 Miscellaneous income

\*Hired help or others boarded.

Table 8. Family Living From the Farm, 1951

Items		Your farm	Average 162 farms	Your farm	Average 162 farms
Adult equiv family - others		Windowskie opening op	3•2 •6		
Whole milk		N 20 - 1 - 2 - 2 - 2	1261 qts.	e e filosofie e e e e e e e e e e e e e e e e e e	\$90.02
Skim milk Cream		And the second second	107 ats. 62 pts.	The state of the s	1.15 14.56
Farm made butter Beef			416 lbs.	Sentence interestational contentrations	.03 103.56
Hogs	.5		436 lbs.		85.09
Sheep Poultry			1 lb. 133 lbs.	gu-tud-v-ralifertilatio	.12 30.19
Eggs Potatoes	19 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The state of the s	198 doz. 6 bu.	de some unique resservation de de de	79.54
Vegetables & fruits			A Committee of the Comm		66,64
Farm fuel Rental vl. of house	8.45	*** *** ******************************	l cd.		6.27 331.71
Total					816.30

#### CUMULATIVE EFFECT OF EXCELLING IN A NUMBER OF MEMAGEMENT FACTORS:

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

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

No. of factors in which farmer excels	No. of farms	Your farm	The length of the shaded lines is in proportion to the average operator's labor earnings	Average operator's labor earnings
None or 1 2 3 4 5 6 or 7	17 28 <b>37</b> 40 30		**************************************	\$3562 4746 5136 6147 7121 7443

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

to the section in

Measures used in chart on page 11	Your farm	Average of 162 farms	32 most profit- able farms	32 least profit- able farms
Operator's labor earnings \$	-	\$ <b>5</b> 663	\$9974	\$1933
(1) Crop yields*		100	101	94
(2) % of tillable land in high ret. crops**	. · .	63.2	61.6	60.5
(3) Ret. for \$100 feed to prod. livestock***		100	103	89
(4) Prod. livestock units per 100 acres****	100	29.6	29.4	27.9
(5) Size of business - work units		594	750	491
(6) Work units per worker		313	341	273
(7) Pow., mach., equip., & bldg. exp. per work unit		\$6.54	\$6.01	\$7.45
Measures and items related to some of the above measures:  (3) Index of return for \$100 feed from:     Dairy cattle (see pages 16 & 17)     Dual purpose cattle (see pages 18 & 19)     Beef breeding herd (see page 20)     Feeder cattle (see page 20)     Hogs (see page 15)     Native sheep (see page 21)     Turkeys (see page 24)     Chickens (see page 22 & 23)		100 100 100 100 100 100	102 99 120 104 87	87 105 - 95 88 87 - 93
(4) Number of animal units prod. livestock		56.3	75.7	48.4
(5) Work units on crops Work units on productive livestock Other work units		147 408 39	196 498 56	127 342 22
(6) Number of family workers Number of hired workers Total number of workers		1.3 .6 1.9	1.4 .8 2.2	1.3 .5 1.8
(7) Power expense per work unit Crops mach. expense per work unit Livestock equip. exp. per work unit Building exp. per work unit		\$3.24 1.49 .41 1.40	\$2.96 1.42 .35 1.28	\$3.90 1.66 .47 1.42

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

<sup>\*\*</sup>Crops are marked on page 12 as (A), (B), (C), and (D). All of the acres in (A) crops, one-half of acres in (B) crops, and one-fourth of acres in (C) crops are used in calculating per cent of tillable land in high return crops.

<sup>\*\*\*</sup>An index weighted by the animal units of livestock.

<sup>\*\*\*\*</sup>Acres in timber not pastured, roads, waste, and farmstead were not included.

## Thermometer Chart

Using your figures from page 10, locate your standing with respect to the various measures of farm organization and management efficiency. The averages for the 162 farms included in this summary are located between the dotted lines across the center of this page.

:						
Oper. labor earn- ings	Cron Yields	High return crops	Return from pro- ductive livestock	per	Work units	Work Fow., mach., units eq. & bldg. per exp. per worker work unit
\$11300	140	83.0	140	49•5	915	475 2.55
10600	135	80.5	135 =	47.0	875	455 3•05
9900	130	78.0	130	44.5	835	<sup>1</sup> +35 = 3.55 = =
9200	125	75•5	125	42.0	795	415 4.05
8500	120	73.0	120	39.5	755	395 - 4.55
7800	115 =	70.5	115	37.0	715	375 = 5.05 =
7100	110	68.0	110	3 <sup>1</sup> +5 =	675	355 5 55
6400	105	65.5	105	32.0	635	335 6.05
5700	100	63.0	100	29.5	595	315 6.55
5000	95	60.5	95	27.0	555	295 7.05
4300 =	90 =	58.0 =	90	24.5	515	275 7.55
3600	85	55•5	85	22.0	475	255
2900 <u>E</u>	80	53.0	80=	19.5	435	235 8.55
2200	75 =	50.5	75	17.0	395	215 9.05
1500	70	148.0	70	14.5	355	195 9.55
800	65	45•5	65	12.0	. 315	175 10.05
F						
Manufac	· ·					

Table 11. Distribution of Acres in Farm, 1951

			res in F	arm, 1951	
Crop: (A), (B), (C) and (D) refer		No.			**************************************
to ranking used in calculating		growing			Average
% of tillable land in high		this		Your	of 162
return crops (see page 10)		crop	a the sign	farm	farms
Canning peas	(A)	17	<del></del>		1.5
Flax	(c)	20		<del></del>	2.0
Barley	$(\mathbb{D})$	20 48	• •		
<del></del>	· ·	20			5 <sub>*</sub> 0
Oats and barley	(D)		• 9	***************************************	2.8
Oats	(D)	151		<del></del>	32.7
Oats and wheat	(Ɗ)	9 .			1.0
Wheat	$(\mathbb{D})$	29		******************************	2.2
Rye, millet and buckwheat	(D)	16			1.1
Total small grain and peas		159			48.3
Sugar beets, hybrid seed corn,					
potatoes and truck crops	(A)	13		. 4	1.1
Corn grain	(A)	160		<del></del>	44.4
Corn silage	(B)	101		Water	6.4
Sweet corn	(B)				
		13		<del></del>	1.3
Soybeans for grain	(g)	57			7.7
Corn fodder	(D)	2			
Total Cultivated crops		161			60.9
Alfalfa hay	(A)	162		·	37.4
Red clover hay .	(B)	28			2,6
Soybean hay	(c)	1			<b>,1</b>
Mixed legumes & non-legumes	(C)	6			. • 3
Legumes for seed	(c)	7			•4
Timothy and/or brome hay	(D)	6			.2
Other annual hay	(D)	2		***************************************	.1
Total tillable land in hay	(2)	162		****	41.1
Total dillable rand in may		, 102		<del></del>	~ ·
Alfalfa and mixtures incl. alf.	(A)	126			13.5
Other legumes and mixtures	(c)	36	State of the state of	· <del></del>	3.7
Sudan grass or rape pasture	(0)	12	•	***************************************	•4
Other tillable land in pasture	(D)	44		· <del>************************************</del>	3.0
Total tillable land in pasture		148		***	20.6
Tillable land not cropped	(D)	30		V	2.0
Total tillable land		162			172.9
Wild hay (non-tillable)		49			2.9
Non-tillable pasture		118			24.8
Timber (not pastured)		60			5.8
Roads and waste		-		<del></del>	9.0
Farmstead				*	6.8
T CUT THE A COOK	:			<b>E</b>	
Total acres in farm					222.2
Per cent land tillable				***************************************	77.8
	. + ~.	nana.	3		63.4
Per cent tillable land in high re	o C	r oħ <b>s</b>			O 70 -4

### Table 12. Crop Yields Per Acre, 1951

				Average of	
Crop		Variety of the second	Your farm	farms growi	ng
Canning peas, value Flax, bu. Barley, bu.	get jûge e	t	1, 1200 year 12, 3 1 12 \$ 11, 4 1, 2, 10 1 0 1 1 1		
Oats and barley, bu. Oats, bu. Oats and wheat, bu.	Park Park	Andrew Mills Andrew Mills Andrew Mills Andrew Andrew	Market and a second and a secon	45.1 48.6	
Wheat, bu. Rye, bu.		Maria da Maria	With and development of the second of the se	50.1 22.8 19.6	
Corn, grain, bu. Corn and cane silage Sweet corn, tons Soybeans, bu.				8.6 4.2.	Borres (18 1 to 18 1 to
Alfalfa hay, tons Red clover hay, tons Mixed legume & non-1	<b>s</b>		Anthonormal Angles	17.2 2.9 2.1 1.7	
Legumes for seed, la Timothy and/or brome Wild hay, tons	os. e hay, tons			106 (106)	r seje i se postavi si si Kristika i si seje si si Kristika i si si si si si si si
100, 4 0010			A Section of the	4.5	

Table 13. Average Price of Feeds, 1951

T.L.			ice of Feeds		
Item	Value	<u> </u>	1.35		Value
Ear corn, per bu.	\$1.36	Alfalfa	hay, per tor	1	\$19.00
Oats, per bu.	•81		lsike clov.		
Barley, per bu.	1.23		hay, per tor		
Wheat, per bu.	2.20	Timothy,	per ton	and the second	11.00
Soybeans, per bu.	2.82	Wild hay	, per ton		9.50
Bran, per cwt.	3.20	Corn fod	der, per tor	n e e g	8.55
Linseed oilmeal, per cwt		Corn sil	age, per ton	ije sa je še	6,00:
Soybean cilmeal, per cwt.	4.55	Pasture,	per mo. per	an. unit	1.40
Tankage, per cwt.	6.20				40
Programme and the state of the	3.0	*			
				The state of the s	
	endi Andreas	Carlotte Comment		Property of the second	$= \left(\frac{1}{2}\right)^{\frac{1}{2}} + \left(\frac{1}{2}\right)^{\frac{1}{2}} + \left(\frac{1}{2}\right)^{\frac{1}{2}} + \left(\frac{1}{2}\right)^{\frac{1}{2}} + \left(\frac{1}{2}\right)^{\frac{1}{2}}$

Tohlo	7 26.1	Tood	Chete	for	Horses.	7057
TSOTA	T-4.*	1 6 6 C	00868	TOT.	norses.	エスコエ

	Your	Average of 89
Items	farm	farms
Feed por horse, lbs.:*		
Grain		278
Hay	A RESERVED AND A STATE OF	3701
Fodder and stover		163
Feed cost per horse:*		
Grain		\$6,95
Roughage	<del></del>	30.27
Pasture	***************************************	7.09
Total feed cost		44.31
Number of work horses		2.4
Number of colts		.2

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

Table 15. Power and Machinery Expenses per Crop Acre, 1951

All the Printer of the Printer State of the	table 1).	Tower and Machine	Your	Average of 162	32 most profitable	32 least profitable
Items			farm	farms	farms	farms
Crop acre	es per farm		- 4446-4	153.2	203.3	136.8
		. per crop acre		\$5.53 5.83	\$4.98 5.48	\$6.43 5.66

#### TOTAL RETURNS AND FEED COST FROM YOUR LIVESTOCK ENTERPRISES

The total "return over feed costs" for each class of livestock is shown in Table 16. 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 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.

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 cost other than feed.

-15 -

and the state of t	Dairy or Cows	dual purpo	se cattlo All	Beef breeding herd	Feeder Cattle
Total returns	and hand special regions special distributions.	***************************************		A STATE OF THE STA	
Total feed cost	M maddings of a state and as a sec		ensemble (1978)	Andrew Commencer of the	
Total return over feed	er en	ear the second of the second second second			
		Sheep Farm	***	ing Billion (1997) September 1997	
	Hogs		Feeders	Turkeys	Chickens
Total returns	The second contract of the second	n biologica per l'agress	the distance from the distance and the second secon	de salver annual de de la constante de	All the second s
Total feed cost				e e	en e
Total return over feed				- married from the second of t	AND THE PROPERTY OF THE PROPER

	*						
	m_h	7 Mara Mara	Lar and The			7.077	
ere e este men est como e per base e en acceso e e e e e e e e e e e e e e e e e e	Taore L	Food Cos	ts and Ko	ourns II	com Hogs,		20 4
						29 farms	
12 A S 1		,			Average		n lowest in
* * *				Your	of 145	returns	returns
Itoms	en en regen in propriet of the first of the control			farm	farms	above fee	ed above feed
Feed per cu	at. hogs pro	duced, lbs.	:			•	
Corn	**	-			313	250	391
	grain	and the second			116	89	44/4 138
	rcial feeds	•			48	95	62
The second secon	concentrate	~ <b>.</b>			473	374	<u> 591</u>
					87	2	
OKIM 1	mirk, buttor	rmilk and wh	оу		07.	78	101
		gs produced:					
,	ntratos			\$ .	\$12.78	\$10.14	, , , , ,
Skim n	milk, butter	rmilk and wh	еy		• 35	• 32	•41
Pastu	re			-	•18	.16	.16
	TOTAL FEED (	COSTS			13.31	10.62	16.86
		***,		7	March 1975	• •	- " -
Net increas	se in value	per cwt hog	s mrod.	<b>d</b> :	\$19.25	\$20.67	\$17.92
- 00 2.102 000	oo an value	Dor 6.10 2208	b proa-	<b>•</b>	ψ± /• ω/	\$ <b></b> 0.07	4
אם א יצור סדדוויות מ	OVE FEED COS	ST PER CWT.				•	
,	S PROD.	OT LAW.		<b>.</b>	\$ 5.94	\$10.05	ф т O6
11006	2 LUOD.	*		· 85	# J+74	<b>Φ</b> ΤΩ• Ω Σ	· ⊅ T≯00
TEVERTITION TO THE OT	. ha.oo." om ma			*	<b>4</b> 7 <b>2</b> 7	, 4- on	d= 00
	3 \$100 OF F			\$	\$151	\$198	\$108
Price rece	ived por cwi	t. hogs sold		\$	\$19.69	\$20.42	\$19.38
			•				
No. of spr	ing litters	ra <b>is</b> ed		and of the same the attacker of	10.4	9.4	8.7
No. of fall	l litters ra	a <b>is</b> od		constant and analysis of the same of	6.9	<u>6.1</u>	7.4
Total no.	of litters 1	raised			17.3	15.5	16.1
No. of pig	s born por I	litter			8.3	8.3	8.0
	s weaned per				6.5	6.6	6.0
*.O. OT TATE	• WOOZZOG PO-	1 11 0001					
Pounds of	hogs produce	od.			25931	24511	22407
LOGIMB OI .	inea brounce	JUL .			سار <i>از ا</i> ر ۱	27711	
			entropy of the second			er ent	***

Table 18. Factors of Cost and	Returns	from Dairy	Cows, 1951	The second secon
Itoms	Your farm	Average of 133 farms	27 farms highest in butterfat per cow	butterfat
Pounds of butterfat per cow % butterfat in milk Price rec. per lb. B.F. sold (cents) As manufacturing cream (cents) Other (cents)		307 c 3.8 95.9 79.2	386 3•9 99•9 79•5	225 3.6 88.6 79.0
Foods per cow, 1bs:		1001.5	102.3	98,2
Corn Small grain Commercial feeds		1433 797 378	1645 931 495	1465 679 210
Legume hay Other hay Fodder and stover		4484 549 98	4436 589 18	4491 144 14
Total Concentrates Total dry roughage Silage		2608 5131 6708	3071 5043 8108	2354 4649 6322
Total digestible nutrients* T.D.N. per 1b. B.F. %T.D.N. that is protein		5837 19.0 15.0	6506 16.9 15.0	5352 23.8 14.9
Feed cost per cow: Concentrates Roughages Pasture TOTAL FEED COSTS		\$70.38 67.54 6.64 144.56	\$83.52 71.70 <u>6.68</u> 161.90	\$61.66 63.53 <u>6.67</u> 131.86
Value of produce per cow:  B.F. sales  Dairy produce used in house  Milk to livestock  Not increases in value of cows  TOTAL VALUE PRODUCED		\$273,40 7,40 18.03 34,74 333,57	\$363.28 6.02 15.10 41.11 425.51	\$177.20 11.36 22.44 38.66 249.66
RETURNS ABOVE FIED COST PER COW	in the last content.	\$189.01	\$263.61	\$117.80
Returns for \$100 OF FEED	all-books are a grown	\$240	\$270	\$206
Food cost per 1b. B.F. (cents)	talente esta esta esta esta esta esta esta es	47.1	41.9	58.6
fall freshening	·	52	55	52
Number of cows**		18.2	20.6	15.3

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

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

-174

Table 19. Feed Costs and Returns from Other
---

· Dang Geral Mengelen (1984) (1984) - Daniel Geral (1984) - Daniel Geral (1984)	Your	_	27 farms highost in butterfat		
Itoms	farm	farms			#1 November 14 1
Feeds por head, lbs.: Concentrates Hay and fodder Silage Skim milk Whole milk		640 1960 2170 360 402	879 2109 2424 214 384	558 1865 2389 750 354	
TOTAL FEED COSTS PER HEAD		\$58.08	\$66.06	\$55.42	
Not inc. in value of other dairy cattle	\$	3117.87	\$122.89	\$107.29	,
RETURNS ABOVE FEED COST PTR HTAD	war specialist of a second	\$59.79	\$56.83	\$51.87	
RETURNS FOR \$100 OF FEED	er an er er er er	\$221	\$196	\$236	
Number of head of other dairy cattle		19.9	23.9	16.6	
	in the state of the theorem the courts in a			**************************************	

Your of 133 butterfat butterfat farm farms   por cow   por cow	Tablo 20. Feed Costs and Returns			27 farms highest in	27 farms
Concentrates 2112 2566 1880 Hay and fedder 4637 4720 4208 Silage 5814 6826 5706  COTAL FEED COSTS PER ANIMAL UNITS \$123.66 \$140.86 \$112.85  Calue of produce per animal unit:  Dairy products \$183.54 \$234.77 \$127.48  Not increase in val. of dairy cattle 101.52 113.31 90.98  TOTAL VALUE PRODUCED \$285.06 \$348.08 \$218.46					
Concentrates  Hay and fodder  Silage  COTAL FEED COSTS PER ANIMAL UNITS  Salue of produce per animal unit:  Dairy products  Not increase in val. of dairy cattle  TOTAL VALUE PRODUCED  CETURNS ABOVE FEED PER ANIMAL UNIT  SILETURNS PER \$100 OF FEED  SILETURNS PER \$100 OF FEED  SILETURNS ABOVE SILED  SILETURNS ABOVE SILED  SILETURNS ABOVE SILED  SILETURNS ABOVE SILED  SILETURNS ABOVE SILETURNS SI	Itoms	farm	farms	por cow	per cow
Concentrates  Hay and fodder  Silage  COTAL FEED COSTS PER ANIMAL UNITS  Salue of produce per animal unit:  Dairy products  Not increase in val. of dairy cattle  TOTAL VALUE PRODUCED  CETURNS ABOVE FEED PER ANIMAL UNIT  SILETURNS PER \$100 OF FEED  SILETURNS PER \$100 OF FEED  SILETURNS ABOVE SILED  SILETURNS ABOVE SILED  SILETURNS ABOVE SILED  SILETURNS ABOVE SILED  SILETURNS ABOVE SILETURNS SI					
Hay and fodder \$140.86 \$140.86 \$112.85 \$123.66 \$140.86 \$112.85 \$123.66 \$140.86 \$112.85 \$123.66 \$140.86 \$112.85 \$123.66 \$140.86 \$112.85 \$123.66 \$140.86 \$112.85 \$123.66 \$140.86 \$112.85 \$123.46 \$140.86 \$112.85 \$123.46 \$140.86 \$112.85 \$183.54 \$234.77 \$127.48			02.10	0517	7000
Silage       5814       6826       5706         COTAL FEED COSTS PER ANIMAL UNITS       \$123.66       \$140.86       \$112.85         Salue of produce per animal unit:       \$183.54       \$234.77       \$127.48         Not increase in val. of dairy cattle       \$101.52       \$13.31       90.98         TOTAL VALUE PRODUCED       \$285.06       \$348.08       \$218.46         RETURNS ABOVE FEED PER ANIMAL UNIT       \$161.40       \$207.22       \$105.61         RETURNS PER \$100 OF FEED       \$239       \$253       \$211		pray parameter and reserving of a			
COTAL FEED COSTS PER ANIMAL UNITS \$123.66 \$140.86 \$112.85  Value of produce per animal unit:  Dairy products  Not increase in val. of dairy cattle  TOTAL VALUE PRODUCED \$285.06 \$348.08 \$218.46  RETURNS ABOVE FEED PER ANIMAL UNIT \$161.40 \$207.22 \$105.61  RETURNS PER \$100 OF FEED \$239 \$253 \$211		and the second second			
Talue of produce per animal unit:    Dairy products	pliage		701 <del>4</del>	0020	,
aluo of produce per animal unit:    Dairy products	OWAL TEED COSTS PER ANIMAL INTES	* *	\$123.66	\$140.86	\$112.85
Dairy products   \$183.54   \$234.77   \$127.48     Not increase in val. of dairy cattle   101.52   113.31   90.98     TOTAL VALUE PRODUCED   \$285.06   \$348.08   \$218.46     ETURNS ABOVE FEED PER ANIMAL UNIT   \$161.40   \$207.22   \$105.61     ETURNS PER \$100 OF FEED   \$239   \$253   \$211	OLEM E EEE OOOLO LEEE MEEE OFFEE	Service of manufacturers are not design for the	<b>* )-</b>		
Dairy products   \$183.54   \$234.77   \$127.48     Not increase in val. of dairy cattle   101.52   113.31   90.98     TOTAL VALUE PRODUCED   \$285.06   \$348.08   \$218.46     RETURNS ABOVE FETD PER ANIMAL UNIT   \$161.40   \$207.22   \$105.61     RETURNS PER \$100 OF FEED   \$239   \$253   \$211	alue of produce per animal unit:				
Not increase in val. of dairy cattle 101.52 113.31 90.98 TOTAL VALUE PRODUCED \$285.06 \$348.08 \$218.46  ETURNS ABOVE FEED PER ANIMAL UNIT \$161.40 \$207.22 \$105.61 ETURNS PER \$100 OF FEED \$239 \$253 \$211	The state of the s				
RETURNS ABOVE FEED PER ANIMAL UNIT \$161.40 \$207.22 \$105.61 \$239 \$253 \$211	Net increase in val. of dairy cattle	to make in the common ser to constitue make	101.52	113.31	90.98
ETURNS PTR \$100 OF FEED \$239 \$253 \$211	TOTAL VALUE PRODUCED		\$285.06	\$348.08	\$218.46
ETURNS PER \$100 OF FEED \$239 \$253 \$211			An Zn Lik	400m 00	da ort. Za
Animal Units of dairy cattle 28.4 32.8 23.8					
animal Units of dairy cattle		Andrea de Comprede e este de la comprede de la comp	. φ4.39 28.4	マルフラ マ2 B	
	nimal Units of dairy Cattle	- Carrier of the Control	AU• Y	J~• U	~ <i>y</i> • ∪
				4 1 4 1 E	1.0
					4.54

en de la companya de la co

					-18-			,	
				9 :		26.375.05		ing Samuel (1 de la company) de la company	
Table 21.	Factors	$\circ f$	Cost	and	Roturns from Dus	al Purp	osc Co	ws, 1951	

toms	Your farm	Average of 14 farms	Specific
		\$ <b>*</b> 3 * 3 * 3 * 3 * 3 * 3 * 3 * 3 * 3 * 3	
Pounds of butterfat per cow	(Acetholic colorabilities and a	204	
% butterfat in milk		"3•7 ° ° °	
Price received per 1b. B.F. sold (conts)		84.4	
	entered the second control of	78.1	
As manufacturing cream (cents)		· .	÷
Other (cents)	the shoot appropriate resistant that	96•9	
Foods per cow, lbs.:	1	(00	mage server serv
Corn	ger man, man,	692	
Small grain Commercial foods	The state of the s	696 126	ar Chille in the in
		and the second second	
Legume hay	***	3344	
· · · · · · · · · · · · · · · · · · ·	* * * * * * * * * * * * * * * * * * * *	466	Branch Carlotte
Othor hay	And the second section of the section of t		
Fodder and stover	granic concentration	247	
		The second secon	
Total concentrates		1514	
	The control of the co	4057	
Total dry roughage	a state a como describe de la company de la como de la	6497	
Silago	galanting and a control of the last	0477	
Total digestible nutrients*		. 4365	
T.D.N. per 1b. B.F.		21.3	1.0
	Andreas and the second section of the second		
% T.D.N. that is protoin		14.3	
Food cost per cow:			
Concentrates		\$38.74	A., 8
	appear to the best of the September 1 and	56.13	
Roughages			
Pasture	agaige or terror and a disconsissance	6.67	
TOTAL FIED COSTS		101.54	
		1. (5.4%)	
Value of produce por cow:			
B.F. salos	and a series of the series of the series of	\$153.45	
Dairy produce used in house		7.03	
Milk to livestock	**. ****	מל מח	
		45.99	and the second
Not increases in value of cows	Pagement of the second of	#222 2Z	*
TOTAL VALUE PRODUCED		\$232.26	***
		**	
RETURNS ABOVE FEED COST PER COW	Commission consideration	\$130.72	
RETURNS FOR \$100 OF FEED		\$240	
Food cost per 1b. B.F. (cents)*	pro-contract contract for the first section.	49.8	
% fall freshening		44	
		18.5	
Number of cows		124.5	

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

Table 22. Feed Costs and Returns from Other Dual Purpose Cattle, 1951

Itoms	farm 14 farms
Feeds per head, Ibs.:	
Concentrates	916: 1
Hay and foddor	1746 · 1
Silage	2025
Skim milk	510
Whole milk	: 18 - 18 <del>- 2</del> - 2 - 3 - 1 - 1 - 485 - 1 - 1 - 1 - 1
	English Charles
TOTAL FEED COST PER HEAD	\$62.91
Nottincrease in value	\$122.69
RETURNS ABOVE FEED COST PER	HEAD \$59.78
	the property of the second of
RETURNS FOR \$100 OF FEED	\$204
Age 1 and 1	
Number of head	25.7

Table 23. Feed Costs and Returns From All Dual Purpose Cattle, 1951

eldon, me ellelije i lie iddelelie Pymoro og ellever med eleg elega og elle og elle og ellever eller eller volge, den koll for elle

CANADA ANTALA SE WAS

		****		4	You say south	£ \$ 1
T.4		erant ner	***		Average of	a table
Itoms	ئەت ئوار دىلامىيىدىيە مەھەلىر دىلامىيىد ئەت ئوار دىلامىيىدى مەھەلىر دىلامىيىد	والمحالية والمتكاسط للعقد تعلقت		farm	14 farms	i de la companya de l
*						
Feeds per	animal uni	t, lbs.:	***	441, 434 1 1 1		
Conc	ontrates	n en i en e			1633	
Hay	and fodder	e e e e e e e e e e e e e e e e e e e		consideration that the second	3727	
Sila	go	e e		and the second s	5505	
	. 11	and the second	-			
TOTAL FEE	d costs pyr	ANIMAL UNI	T		\$96.83	
		e je maj		Mark 19		
	produce per	animal uni	t:		. eta	
Dair	y products	an gra		and the companies of th	\$ 98,45	
$\mathtt{Not}$	increase in	valuo		The second secon	119.58	
	TOTAL VALU	E PRODUCED			218.03	79
			# 1 · · ·	in the same		2000
RETURNS A	BOVE FEED P	ER ANIMAL U	DII .	Control or stronger from the stronger stronger stronger and the stronger st	\$121.20	
		*				
RETURNS F	OR \$100 OF :	TEER CEER		Company of the second of the s	\$244	
•	4 × 14					
Animal un	its	Service Control	and the first	والمراشع فالمسو	31.6	
Settlem 4. Calculate and a second of the second	to the secondary the state and temperature .	error was entropy of the contraction	· · · · · · · · · · · · · · · · · · ·		en mandemalister de l'imperiore et de l'incernance et de l'incernance et de l'incernance et de l'incernance et	

		V	Averag
		Your	of al
Items		farm	farms
	breeding herd: No. of farms:		9
n eeus	s per animal unit, lbs: Concentrates		2011
		* 2	2011 4006
	Legume hay		
	Other hay	A CONTRACTOR OF THE PARTY OF TH	1412
	Fodder and stover	****	653
	Silage	\$1000 minutes in the same of t	6885
Feed	cost per animal unit:		
	Concentrates	Ş	\$52.65
	Roughages	·	68.19
	Pasture	<del></del>	8.65
	TOTAL FEED COSTS		129.49
		Miles Marie Sangain mayor manganana	
Value	e of produce per animal unit:		6 C
	Dairy products	8	\$ 6.09
	Net increase in value of animals		207.76
	TOTAL VALUE PRODUCED	<del></del>	213.85
RETUF	rns above feed cost per animal un	IT	\$84.36
RETUF	RNS FOR \$100 OF FEED	Market Control of the	\$173
		**************************************	\$173
N <b>umb</b> e	er of cows and herd bulls	Annel Gerin Gerin agent	18.6
Numbe Numbe	er of cows and herd bulls er of animal units in the herd		18.6 23.6
Numbe Numbe	er of cows and herd bulls		18.6
Numbe Numbe Lbs•	er of cows and herd bulls er of animal units in the herd beef produced		18.6 23.6
Numbe Numbe Lbs. Feede	er of cows and herd bulls er of animal units in the herd beef produced er cattle: No. of farms:		18.6 23.6 12623
Numbe Numbe Lbs. Feede	er of cows and herd bulls er of animal units in the herd beef produced er cattle: No. of farms: s per cwt. beef produced, lbs.:		18.6 23.6 12623
Numbe Numbe Lbs. Feede	er of cows and herd bulls er of animal units in the herd beef produced er cattle: No. of farms:		18.6 23.6 12623
Numbe Numbe Lbs. Feede	er of cows and herd bulls er of animal units in the herd beef produced er cattle: No. of farms: s per cwt. beef produced, lbs.:		18.6 23.6 12623 20
Numbe Numbe Lbs. Feede	er of cows and herd bulls er of animal units in the herd beef produced er cattle: No. of farms: s per cwt. beef produced, lbs.: Corn		18.6 23.6 12623 20 390 40
Numbe Numbe Lbs. Feede	er of cows and herd bulls er of animal units in the herd beef produced er cattle: No. of farms: s per cwt. beef produced, lbs.: Corn Small grain Commercial feeds		18.6 23.6 12623 20 390 40
Numbe Numbe Lbs. Teede	er of cows and herd bulls er of animal units in the herd beef produced  er cattle: No. of farms: s per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay		18.6 23.6 12623 20 390 40 37 511
Numbe Numbe Lbs. Feede	er of cows and herd bulls er of animal units in the herd beef produced er cattle: No. of farms: s per cwt. beef produced, lbs.: Corn Small grain Commercial feeds		18.6 23.6 12623 20 390 40 37 511
Numbe Numbe Lbs. Feede	er of cows and herd bulls er of animal units in the herd beef produced  er cattle: No. of farms: s per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay Other hay		18.6 23.6 12623 20 390 40 37 511
Numbe Numbe Lbs. Feede	er of cows and herd bulls er of animal units in the herd beef produced  er cattle: No. of farms: s per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay Other hay Fodder and stover		18.6 23.6 12623 20 390 40 37 511 194
Numbe Numbe Lbs. Feede	er of cows and herd bulls er of animal units in the herd beef produced  er cattle: No. of farms: s per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay Other hay Fodder and stover  Total concentrates		18.6 23.6 12623 20 390 40 37 511 194
Numbe Numbe Lbs. Feede	er of cows and herd bulls er of animal units in the herd beef produced  er cattle: No. of farms: s per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay Other hay Fodder and stover  Total concentrates Total dry roughages		18.6 23.6 12623 20 390 40 37 511 194 -
Numbe Numbe Lbs. Feeds	er of cows and herd bulls er of animal units in the herd beef produced  er cattle: No. of farms: s per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay Other hay Fodder and stover  Total concentrates Total dry roughages Silage		18.6 23.6 12623 20 390 40 37 511 194 -
Numbe Numbe Lbs. Feeds	er of cows and herd bulls er of animal units in the herd beef produced  er cattle: No. of farms: s per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay Other hay Fodder and stover  Total concentrates Total dry roughages Silage cost per cwt. beef produced	3	18.6 23.6 12623 20 390 40 37 511 194 - 467 705 745
Numbe Numbe Lbs. Feeds	er of cows and herd bulls er of animal units in the herd beef produced  er cattle: No. of farms: s per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay Other hay Fodder and stover  Total concentrates Total dry roughages Silage cost per cwt. beef produced Concentrates		18.6 23.6 12623 20 390 40 37 511 194 - 467 705 745
Numbe Numbe Lbs. Feeds	er of cows and herd bulls er of animal units in the herd beef produced  er cattle: No. of farms: s per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay Other hay Fodder and stover  Total concentrates Total dry roughages Silage cost per cwt. beef produced Concentrates Roughages	\$	18.6 23.6 12623 20 390 40 37 511 194 - 467 705 745 \$12.08 8.04
Numbe Numbe Lbs. Feeds	er of cows and herd bulls er of animal units in the herd beef produced  er cattle: No. of farms: s per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay Other hay Fodder and stover  Total concentrates Total dry roughages Silage cost per cwt. beef produced Concentrates Roughages Pasture		18.6 23.6 12623 20 390 40 37 511 194 - 467 705 745 \$12.08 8.04 1.22
Number Number Lbs. Feeds	er of cows and herd bulls er of animal units in the herd beef produced  er cattle: No. of farms: s per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay Other hay Fodder and stover  Total concentrates Total dry roughages Silage cost per cwt. beef produced Concentrates Roughages Pasture TOTAL FEED COSTS		18.6 23.6 12623 20 390 40 37 511 194 - 467 705 745 \$12.08 8.04 1.22 21.34
Number Lbs. Feeds Feeds	er of cows and herd bulls er of animal units in the herd beef produced  er cattle: No. of farms: s per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay Other hay Fodder and stover  Total concentrates Total dry roughages Silage cost per cwt. beef produced Concentrates Roughages Pasture TOTAL FEED COSTS increase in value of feeders	\$	18.6 23.6 12623 20 390 40 37 511 194 - 467 705 745 \$12.08 8.04 1.22
Number Lumber Lu	er of cows and herd bulls er of animal units in the herd beef produced  er cattle: No. of farms: s per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay Other hay Fodder and stover  Total concentrates Total dry roughages Silage cost per cwt. beef produced Concentrates Roughages Pasture TOTAL FEED COSTS increase in value of feeders ENS ABOVE FEED COST PER CWT		18.6 23.6 12623 20 390 40 37 511 194 - 467 705 745 \$12.08 8.04 1.22 21.34 38.66
Number lumber lu	er of cows and herd bulls er of animal units in the herd beef produced  er cattle: No. of farms: s per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay Other hay Fodder and stover  Total concentrates Total dry roughages Silage cost per cwt. beef produced Concentrates Roughages Pasture TOTAL FEED COSTS increase in value of feeders ENS ABOVE FEED COST PER CWT EF PRODUCED		18.6 23.6 12623 20 390 40 37 511 194 - 467 705 745 \$12.08 8.04 1.22 21.34 38.66
Number lumber lu	er of cows and herd bulls er of animal units in the herd beef produced  er cattle: No. of farms: s per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay Other hay Fodder and stover  Total concentrates Total dry roughages Silage cost per cwt. beef produced Concentrates Roughages Pasture TOTAL FEED COSTS increase in value of feeders ENS ABOVE FEED COST PER CWT EF PRODUCED ENS FOR \$100 OF FEED	\$	18.6 23.6 12623 20 390 40 37 511 194 - 467 705 745 \$12.08 8.04 1.22 21.34 38.66 \$17.32 \$210
Number Number Number Lbs. Feeds Feeds RETUF RETUF RETUF RETUF Price	er of cows and herd bulls er of animal units in the herd beef produced  er cattle: No. of farms: s per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay Other hay Fodder and stover  Total concentrates Total dry roughages Silage cost per cwt. beef produced Concentrates Roughages Pasture TOTAL FEED COSTS increase in value of feeders ENS ABOVE FEED COST PER CWT EF PRODUCED ENS FOR \$100 OF FEED e recd. per cwt.beef sold in 1951	\$	18.6 23.6 12623  20  390 40 37 511 194 - 467 705 745 \$12.08 8.04 1.22 21.34 38.66 \$17.32 \$210 \$33.83
Number Number Lbs. Feeds Feeds RETUF BEE RETUF Price	er of cows and herd bulls er of animal units in the herd beef produced  er cattle: No. of farms: s per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay Other hay Fodder and stover  Total concentrates Total dry roughages Silage cost per cwt. beef produced Concentrates Roughages Pasture TOTAL FEED COSTS increase in value of feeders ENS ABOVE FEED COST PER CWT EF PRODUCED ENS FOR \$100 OF FEED e recd. per cwt. beef sold in 1951 e paid per cwt. beef bought	\$	18.6 23.6 12623  20  390 40 37 511 194 - 467 705 745  \$12.08 8.04 1.22 21.34 38.66 \$17.32 \$210 \$33.83 37.70
Number Number Number Lbs. Feeds Feeds Recturate BER RETURATE Price	er of cows and herd bulls er of animal units in the herd beef produced  er cattle: No. of farms: s per cwt. beef produced, lbs.: Corn Small grain Commercial feeds Legume hay Other hay Fodder and stover  Total concentrates Total dry roughages Silage cost per cwt. beef produced Concentrates Roughages Pasture TOTAL FEED COSTS increase in value of feeders ENS ABOVE FEED COST PER CWT EF PRODUCED ENS FOR \$100 OF FEED e recd. per cwt.beef sold in 1951	\$	18.6 23.6 12623  20  390 40 37 511 194 - 467 705 745 \$12.08 8.04 1.22 21.34 38.66 \$17.32 \$210 \$33.83

Table 25. Feed Costs and Returns from a Farm Flock of Sheep, 1951

Items	Your farm	Average of 3 <sup>1</sup> 4 farms	17 farms highest in returns above feed	returns
Feeds per head, *lbs.: Concentrates Legume hay Other hay Fodder and stover Silage		73 333 58 25 145	38 247 84 - 153	108 419 31 50 137
Feed cost per head:     Concentrates     Roughages     Pasture     TOTAL FEED COSTS  Value of produce per head:	\$\$	\$1.88 4.15 1.15 7.18	\$1.02 3.26 <u>1.22</u> 5.50	\$2.74 5.03 1.09 8.86
Wool Net increase in value of sheep TOTAL VALUE PRODUCED	\$\$	\$6.13 15.77 21.90	\$6.93 20.13 27.06	\$5.33 11.41 16.74
RETURNS, ABOVE FEED COST PER HEAD	and the state of t	14.72	21.56	7.88
RETURNS FOR \$100 OF FEED	-	\$397	\$564	\$230
Price per cwt. of lambs sold Price per lb. wool sold (cts.) Pounds of wool per sheep sheared	\$	\$29.87 93.4 9.2	\$29•93 99•2 9•3	\$29.81 87.2 9.0
Number of ewes kept for lambing % lamb crop** % death loss**		31 108 11.0	26 117 11.0	35 99 1 <b>1.0</b>
Pounds of sheep produced		2449	2470	2 <sup>1</sup> :27
No. of head of sheep*	Bentraffen schip derfenden staten und	45.8	38•3	53.3

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

<sup>\*\*</sup>Lambs which die during month of birth are not included.

Table 26. Feed Costs and Returns from Chickens, 1951\*

Table 20. Feed Costs and	noullis.	TIOM OUTCKE	116, 17)1	
			27 farms	27 farms
		Average	highest in	lowest in
	Your	of 134	return	return
Items	farm	farms	above feed	above feed
Feed per hen, 1bs.:				
Grain		95	92	92
Commercial feeds		48	47	_57
Total concentrates		143	139	149
Skim milk and buttermilk		2	2	<u>†</u>
TOTAL FEED COST PER HEN	Ş	\$4.83	\$4.67	* \$5.32
		_		
Value of produce per hen:			$\mathcal{L}_{\mathcal{A}} = \{ \mathbf{e}_{i} \mid \mathbf{e}_{i} \in \mathcal{A}_{i} \mid i \in \mathcal{A}_{i} \}$	
Eggs sold and used in house	- \$	\$6.96	\$8.51	\$5.28
Net increase in value of chickens		<u>.60</u> 7.56	1.23	<u>•22</u> 5•50
TOTAL VALUE PRODUCED		7.56	9•74	5.50
		<u>.</u>	<b>4</b>	
RETURNS ABOVE FEED COST PER HEN	\$	\$2.73	\$5.07	\$ .18
RETURNS FOR \$100 OF FEED	s	<b>\$166</b>	\$216	\$109
TOTA OTHER TOTE \$100 OF TIME	4	φ100	ΨΕΞΟ	Ψ 4 0 )
Price rec'd per doz. eggs sold (cents)		43.5	777 • 74	42.7
Eggs laid per hen		193		150
		22	-,-	
Ave. no. of hens on farm during year		269	282	209
	<del></del>			
% of hens that are pullets	•	82	96	71
% of death loss of hens		16	í2	i9 **
,	***************************************			•
Number of chicks started-straight run		70	63	61
-pullets	***************************************	301	421	239
-cockerels		32	39	28
Pounds of poultry produced	halipi pidamikay sahiri sahiri mahari Ma	1241	1956	958

<sup>\*</sup>Includes feeds and returns from the laying flock and chicks.

Table 27. Feed Costs and Returns from Chicks, 1951 Average of 64 Your Items Number of cases Feed per 100 chicks raised, 1bs.: Grain Commercial feeds 1288 Total concentrates \$99.01 Total feed cost per 100 chicks raised Net increase in val. per 100 chicks 72.93 Return over feed cost per 100 chicks -26.08 Return for \$100 of feed Number of chicks bot: 366 Pullets Straight run Cockerels Price paid per 100 chicks bot: Pullets 9- 1-19.25 Straight run Cockerels Per cent death loss Number chicks raised 410 Price rec'd per pound sold (cts.) Pounds of boultry produced Table 28. Feed Cost and Returns from Laying Hens, 1951 Eggs laid per hen Your Below 175-225 and 224 over Number of cases Feed per hen, 1bs: Grain Commercial feeds Total concentrates 100 Skim milk Total feed cost per hen Value of produce per hen: \$7.24 \$8.83 Eggs sold and used in home \$5.30 Less depreciation and death loss Total value produced \$1.65 \$3.00 Return above feed cost per hen Return for \$100 of feed \$151 \$181 \$220 200 245 Eggs laid per hen 150 43.5 Price rec'd per doz. eggs sold (cts.) 42.9. 264 Ave. no. hens on farm during year 333 278 No. of hens on hand beginning of year 312 292:

% death loss

% of hens that are pullets

19

65

15

87

Feed Costs and Returns for Turkeys,

Table 29.

RETURNS FOR \$100 FEED

% death loss

No. of noults nut on feed

Weight per bird sold (lbs.)

Pounds of turkey produced

Price paid per poult purchased (cts.)

Price rec'd per lb. turkeys sold (cts.)

Average Your of 5 Items farm farms Feed per cwt. turkeys produced, Grain Commercial feeds Total concentrates Feed cost per cwt. turkeys produced \$21.11 Net increase in value per cwt. turkeys produced \$33.13 RETURNS ABOVE FEED COST PER CWT. TURKEYS PRODUCED \$12.02

\$167

1077

61.3

19.6

39.1

13.2

11806

#### 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 30.

Table 30. Number of Work Units for Each Class of Livestock and Each Acre of Crop

	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 & du.pur. cattle	4.0	per an. unit*	Sugar beets	3.0 per acre
Beef breeding herd	5.0	per an. unit*	Sweet corn	2.3 per acre
Feeder cattle	. • 3!	5 per 100 lbs.	Corn husked	1.1 per acre
Sheep - farm flock	1.8	per an. unit*	Corn, hogged	.7 per acre
Sheep- feeders	•4	per 100 lbs.	Corn, shredded	2.2 per acre
Hogs	•3	per loo lbs.	Corn, silage	1.7 per acre
Turkeys	•7	per 100 lbs.	Corn, fodder	1.0 per acre
Hens	22.0	per 100 hens	Alfalfa hay	.9 per acre
Canning peas	2.0	per acre	Soybean hay	1.4 per acre
Soybeans for grain	•7	per acre	Other hay crops	6 per acre

\* Animal unit represents one dairy cow or bull, two other dairy cattle, 1 1/4 beef cows or bull, 1 feeder steer or heifer, 3 1/3 other beef cattle, 7 sheep, 14 lambs, 2 \frac{1}{2} hogs, 5 pigs, 50 hens or 1100 pounds of turkeys produced.

•										
		₽ob⁻	le 31. Sum	mary by Ye	0.00°			\$ \$		es established
	Average 1928-29	Average 1930-34	Average 1935-39	Average 1940-44	Average 1945-46	1947,	1948	1949	1950	1951
Number of farms Acres in farm Crop acres in farm Farm inventory	148 170 116 \$24574	1 <sup>1</sup> 10 199 136 \$19851	1 <sup>1</sup> 49 218 1 <sup>1</sup> 47 \$20286	177 227 148 \$25912	170 223 1 <sup>1</sup> 47 \$28327	170 223 146 \$31183	173 225 150 \$33873	164 223 150 \$35300	165 222 153 \$37768	162 222 153 \$42333
Farm earnings (see page 27.)  FARM EXPENSES  Cattle  Hogs bought  Sheep bought  Poultry bought	\$ 141 85 6 37	\$ 83 52 14 41	\$ 213 72 94 80	\$ 441 154 64 142	\$ 352 163 97 202	\$ 436 226 65 149	\$ 646 199 45 145	\$ 636 217 18 182	\$ 807 179 10 148	\$ 1271 219 54 145
Horses bought Misc. livestock expense Misc. crop expenses Feed bought	36 66 186 440	33 64 160 313	43 94 222 535	32 124 301 1273	17 182 507 1842	11 250 780 2224	11 257 933 2090	12 268 780 1773	9 315 819 1972	5 327 876 2 <b>2</b> 99
Custom work hired Power mach. (new & exp.) Mach. and equip. (new) Mach. and equip. (upkeep)	399 190 72	321 122 55	559 281 67	165 717 392 144	318 995 520 244	400 1515 823 303	507 2178 1372 318	461 2128 990 290	446 <b>2186</b> 1251 304	522 <b>21</b> 94 1380 346
Bldgs., fencing (new) Bldgs., fencing (upkeep) Hired labor Taxes and insurance General farm Total farm purchases	130 52 272 298 30 \$2,440	81 32 243 313 28 \$1,955	245 79 398 281 35 \$3,298	331 188 585 303 52 \$5,408	3 <sup>4</sup> 0 238 702 361 76 <b>\$7,1</b> 56	\$97 354 \$93 425 94 \$9,845	1205 383 957 525 104 \$11,875	1109 403 990 575 115 \$10,947	1139 409 891 656 116 \$11,657	1218 359 885 671 128 \$12,899
Decrease in farm capital Board to hired labor Interest on farm capital Unpaid family labor Total farm expenses	102 1,228 358 \$4,128	230 87 992 261 \$3,525	145 1014 239 \$4,696	158 1296 326 \$7,188	128 1417 474 \$9,175	201 1559 582 \$12,187	209 1694 544 \$14,322	203 1765 483 \$13,398	205 1888 462 \$14,212	189 2117 505 \$15,710

Table 31. Summary by Years (continued) Average Average Average Average Average 1940-44 1948 1947 1949 1930-34 1935-39 1945-46 1950 1928-29 1951 FARM RECEIPTS 2440 753 1662 431 713 1335 1480 \$ 2108 2602 2844 3551 Cattle 1188 1451 2138 3797 4129 4811 3866 4005 4500 Dairy products 1164 1074 4362 4646 793 2517 2718 4222 3971 3926 Hogs 52 60 247 224 299 200 186 143 160 177 Sheep and wool 166 629 609 596 416 140 381 871 327 359 Poultry 1402 243 372 751 1347 275 1410 1158 1218 1522 Eggs 27 55 34 - 22 23 15 30 17 19 10 Horses 444 402 316 576 433 37 153 121 190  $c_{orn}$ 904 1264 766 461 306 241 177 357 278 511 Small grain 174 455 672 740 669 1033 911 739 163 155 Other crops 168 141 168 118 173 225 153 199 232 102 Income from labor off farm 74 254 58 65 76 36 60 230 59 Agric. adj. payments 247 366 134 138 282 505 611 503 788 Misc. 3,632 \$ 9,121 \$12,181 \$15,947 \$17,188 \$14,813 \$15,353 \$17,493 \$ 4,753 5,575 Total form sales 3064 524 921 734 3542 1520 527 3457 617 Increase in farm cap. 232 3,864 566 670 7111 816 273 791 702 700 Fam. living from farm 20,230 19,499 16.040 19.512 21,373 10,608 13,585 6,372 Total farm receipts 4,696 1,676 7,188 12,187 14,322 13,398 14,212 15,710 3,525 9,175 4,128 Total farm expenses 2,642 3,420 5,663 339 4,410 8.043 5,177 5.300 1,567 Oper. lab. earnings MISCELLANEOUS ITEMS 42.4 41.6 50.8 43.4 60.3 52.0 44.8 17.2 55.7 51.3 Yield per A. corn (bu.) 34.6 29.4 32.6 27.9 26.2 24.8 31.9 28.2 28.7 Yield ner A. barley (bu.) 36.0 48.6 43.4 44.2 45.7 47.5 55.0 47.2 45.7 40.0 46.0 Yield per A. oats (bu.) 2.4 2.4 2.4 2.3 2.2 2.2 2.9 2.3 2.3 Yield per A. alfalfa (tons) 3.0 63.2 56.0 55.9 43.3 48.7 50.2 51.0 41.0 35.8 31.9 % high return crops 29.6 24.5 22.7 22.7 23.1 22.6 22.2 20.6 19.3 19.2 A.U. livestock per 100 A. 594 588 577 577 573 670 640 747 777 599 No. of work units 294 313 288 288 305 320 287 341 338 310 Work units per worker \$3.57 \$4.74 \$5.62 \$5.97 \$6:54 \$5.95 \$1.26 \$1.37 \$2.35 \$1.76 Expenses per work unit 3.0 2.5 5.4 4.5 3.9 2:3 1:3 2:0 1:6 5.4 No. of work horses .4 .8 1.2 .2 ·2 .1 .1 .7 .8 No. of colts 17:4 17.5 16.9 16.7 16.6 17.0 17.2 17.8 14.2 17.8 No. of milk cows

Table 31. Summary by Years (continued)

		Table 31		and the second s	s (contin	mea)				<del></del>	
	Average	Average	Average	Average	Average		a alia	2010	1050	7.057	
Misc. Items (cont.)	1928-29		1935-39	1940-44	1945-46	1947	1948	1949	1950	1951	
No. of litters of pigs	9.3	10.8	9.5	14.4	10.7	11.0	12.4	13.7	14.0	15.5	
Lbs. of hogs produced	12,706	15,153		21,586	18,178	17,686	19,215	21,438	21,593	23,957	
No. of head of sheep	7.0	13.5		15.8	11.6	11.0	10.8	9.3	8.4	10.1	
No. of hens	136	169			Stift	239	230	220	219	224	
Lbs. B.F. per dairy cow	र्यम	5/10	238	252	260	281	284	305	312	307	
Lbs. B.F. per dual pur. cov	w <u></u>	-		185	172	180	186	197	206	204	
Pigs weaned per litter	6.3	6.1	6.4	6.2	6.4	6.2	6.4		6.6	6.5	
No. of eggs laid per hen	95	114	131	145	171	177	179	191	198	193	
PRICE RECEIVED PER:			٠.						8 5 A II	å <b>7</b> 0	
Lb. B.F. sold as cream	\$.52	\$.28	\$.34	\$.47	\$.79	\$.84	\$•95	\$.70	\$.70	\$.79	
Cwt. hogs sold	8.92	4.98	8.26	10.93	15.74	24.54	22.95		18.25	19.69	
Cwt. feeder cattle sold	-	•	-	11.55	14.75	21.94	28.16	23.32	27.31	33,83	
Lb. wool sold	•36	.16	•25	•39	•45	• 37	.46	•45	• 55	•93 •44	
Doz. eggs sold	•28	.15	.19	•27	•36	-45	•\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	• <del>1</del> 0	•33		
Lb. turkey sold	-		•20	.27	•33	<b>.</b> 36	•48	•40	• 36	•39	
RETURN ABOVE FEED COST PER:							out and the	anlım am	0260 60	C7.00.01	
Dairy cow	\$76.50	\$28.15	\$49.95	\$81.83	\$152.20	\$153.06	\$203.85	\$145.03	\$160.52	\$189.01	1
Dual purpose cow				51.55	92.37	106.77	130.26	99.52	104.44	130.72	27-
Cwt. hogs produced	1.50	•48	2.98		5.65	8.19	5.52	5,43	6.99	5.94	t
Head of sheep	5.50	•81	2.82	4.63	6.79	7-33	8.06	6.70	13.25	14.72	
Hen	1.82	•99	1.12	1.82	2.36	1.34	2.52	2:99	1.52	2.73	
Cwt. turkeys prod.	-	•	10.81	13.54	12.08	4.74	27.48	16.52	10.33	12.02	
FEED COST PER:	060 -0	A)A	خانان م	06-17-	60202 26	ما دادن	61110 10	8770 Od	\$136.97	\$144.56	
Dairy cow	\$69.50	\$47.30	\$44.93		\$101.16	\$141.42	\$142.12	\$130.28		101.54	
Duel purpose cow	<u> </u>	***		52.08	69.95	93.83	100-12	88.73	99•55		
Cwt. hogs produced	7.66	4.21	5.10	7.52	11.37	17.99	15.04	10.40	12.20	13.31	
Head of sheep	2.82	2.23	2.62	3.30	4.50	5.5 <sup>4</sup>	5.94	5 • 35	6.25	7.18	
Hen	1.62	1.13	1.57	2.38	3•8 <sub>1</sub> 4	5•53	4.78	3.95	4.49	4.83	
Cwt. turkeys prod.	_	-	8.47	12.86	17.61	27.70	18.43	17.08	19.32 -	21.11	
Horse	55.09	35•59	36.02	41.52	42.73	48.56	41.82	36.75	42.56	44.31	
PRICE OF FEED:					4.					b=C	
Corn (per bu.)	\$.70		\$•59	\$.71		\$1.76	\$1.63		\$1.20	\$1.36	
Barley (per bu.)	.60	.42	•49	<b>•</b> 59	1.05	1.82	1.59	• 99	1.20	1.23	
Oats (per bu.)	•48	.26	.28	.46	•6g	•92	•88	•59	.72	.81	
Bran (per cwt.)	1.70	.98	1.22	1.80	2.45	3.20	2.85	2.85	2.30	3.20	
Oilmeal (per cwt.)	3.00	1.96	2.12	2.30	3.11	4.50	4.50	4.00	3-95	3.85	
Alfalfa (per ton)	14.75	11.10	9.30	9.90	15.25	21.50	20.00	20.00	21.00	19.00	
		5 1 p.s.				47 3 3		and the second of the second o		and the second s	

Footnote for pages 25, 26, and 27

The values of farm real estate in 1931 were reduced approximately 25 per cent from 1928-1930 values. The values in 1932 were reduced about 29 per cent from the 1931 values. Only land was affected by the reduction in 1931, but in 1932 buildings and improvements were cut 25 per cent. In 1936 the values of land were adjusted upward 10 per cent. The value of dairy cows was also adjusted downward in 1932 and upward in 1936. These capital losses were not included in the inventory decreased in the financial statement but the changes in valuation resulted in variations in the interest charge. No changes in the basis of inventory valuations were made in the years 1933 to 1935 and 1937 to 1950.

The charges for unpaid family labor and board for hired labor were also changed from year to year. The rates used for the period 1928 to 1950 were as follows:

Year	Unpaid family labor	Board for hired labor	<u>Year</u>	Unpaid family labor	Board for hired labor.
1928	\$60	\$20	1940	\$45	\$18
1929	60	20	1941	50	20
1930	60	20	1942	60	25
1931	· 140	15	1943	75	25
1932	30	10	1944	85	25
1933	30	10	1945	90	25
1934	301	10	1946	100	30 30
1935	<sup>4</sup> 0	15	1947	125	36
1936	43	18	1948	125	36
1937	45	18	1949	125	36
1938	45	18	1950	125	36
1939	45	18	1951	125	36

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

The crop ratings used in calculating the percentage of the tillable land in high return crops were changed considerably in 1944 and the animal unit equivalent were changed in 1951.

These adjustments should be considered in comparing 1951 results with previous years.