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UNIVERSITY OF MINIESOTA
Department of Agriculture
and the
TENNESSEE VALLEY AUTHORITY
and the

County Extension Services of Becker, Kittson, Nahnomen, Marshall, Norman, Pennington, Polk, Red Lake and Roseau Counties Cooperating

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Annual Report
of the
Farm Management Service
for T.V.A. Phosphate-Test
Demonstration Cooperators
in Northwestern Minnesota
(March 1, 1945 to February 28, 1946)

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Cooperator

Nimeographed Report No. 160
Division of Agricultural Economics
University Farm
St. Paul 1, Minnesota
June 1946

SIXTH ANNUAL REPORT OF THE FARM MANAGEMENT SERVICE FOR T.V.A. PHOSPHATE-TEST DEMONSTRATION COOPERATORS IN NORTHWESTERN MINNESOTA FOR THE YEAR 1945

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

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INTRODUCTION

The Division of Agricultural Economics and the Division of Agricultural Extension of the University of Minnesota, the Tennessee Valley Authority and the county extension services of several northwestern Minnesota counties are cooperating in a phosphate-test demonstration project and in a farm management service. This service is offered to a selected group of farmers who have agreed to demonstrate the value of phosphate fertilizer and who have also agreed to keep farm business records. The phosphate is provided by the TVA and the fieldman is provided by the TVA and the Agricultural Extension Service. Each farmer pays the freight and other miscellaneous expenses that may occur between the point of shipment and the farm on all the TVA phosphate furnished and \$10.00 per year to cover the summarization of the records and other miscellaneous expenses. The balance of the cost is defrayed by the University of Minnesota.

The analysis of the farm business record and the preparation of the reports are handled by the Division of Agricultural Economics under the direction of G. A. Pond and T. R. Nodland. The field organization is handled by the Division of Agricultural Extension with P. H. Burson in charge of this work. R. S. Harris was the fieldman on this project. County agricultural agents who cooperated in this project include Hartin Ostrem, Vernon Hoysler, Howard Grow, K. N. Grimsrud, F. W. Forbes, O. A. Daellenbach, Ernest Palmer, Carl G. Ash, Rudolph Stolen, J. E. Roningen, E. T. Larvick, and Helvin Hole.

The following tabulation shows by counties the number of cooperators who completed records in 1945:

Becker.		4			Marshall.	. 8	V 1		Polk	10
Kittson ·		4	•	į	Norman	6			Red Lake	4
Mahnomen		5	٠		Pennington	7			Roseau	6
		14				2				
	3							1	Total	54

The records kept by the cooperators include inventories at the beginning and end of the year, cash receipts and expenses, and a record of the farm produce used by the farm family. Complete household and personal records were also kept by 15 cooperators. Supplementary information was secured during the year regarding crop and livestock production practices.

EXCEPTION A TRANSPORT

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

TYPE OF FARMING

Wheat, flax, potatoes, and legume seeds are grown for sale as cash crops. Dairying is the most important livestock enterprise with sheep ranking second. Some beef cattle and poultry and a small amount of hogs are also raised. Oats, barley, hay, and pasture are important feed crops.

TOPOGRAPHY, SOILS, AND WEATHER

The Red River Valley in the western part of the area is very level with black surface soils that are free of stone except in a few places where the deposit from glacial Lake Agassiz is very shallow. Along the beaches of the glacial lake the soils are gravelly and interspersed with poorly drained areas. In extremely wet seasons the surplus water can be drained from the land only very slowly. A large acreage of poorly drained land is used for hay.

East of the Red River Valley is an area lying within the old lake bed that is also very level. The soils are complexly intermixed and poorly drained. Bog areas are numerous, part open and part timbered with tamarack and spruce. A large amount of peat is found in the eastern portion of the territory.

Table 1. Monthly and Annual Precipitation

	Croo	kston	An	gus	Rose	au
	Precipi-	Depart- ure from normal	Precipi- tation	Depart- ure from normal	Precipi- tation	Depart- ure from normal
	Inches	Inches	Inches	Inches	Inches	Inches
January	0.62	+0.09	0.40	-0.01	0.61	-0.02
February	0.23	-0.32	0.10	-0.37	0.40	-0.17
March	1.13	+0.32	1.21	+0.58	1.79	+0.98
April	2.86	+1.23	1.58	+0.13	2.58	+1.10
May	0.78	-2.03	1.19	-1.06	1.63	-0.55
June	2.60	-0.75	4.12	+0.99	2.73	-0.30
July	2.66	-0.41	3.57	+0.54	3.75	+0.76
August	2.57	-0.17	2.45	-0.29	3.24	+0.64
September	4.11	+1.90	3.31	+1.41	3.20	+1.01
October	0.52	-1.01	0.41	-1.03	0.36	-1.12
November	0.23	-0.49	0.16	-0.60	0.48	-0.43
December	1.64	·+O • 96	0.57	+0.05	0.74	+0.14
1945 total	19.95	-0.68	19.07	+0.34	21.51	+2.05
1944 total	22.86	+2.23	24.06	+5.33	23.49	+4.03
1943 total	19.31	-0.82	18,77	+0.04	18.26	-1.20
1942 total	19.48	-1.15	19.83	+1.10	22.35	+2.89
1941 total	32.87	+12.24	27.01	+8.28	25.11	+5.65
1940 total	19.80	-0.83	18.75	+0.02	19.79	+0.33
1939 total	20.32	-0.31	17.95	-0.78	16.44	-3.02
Normal annual preci						
pitation	20.63		18.73		19.46	

Above normal precipitation during Narch and April and considerably cooler than normal weather during April, May, and June retarded early field work and the growth of vegetation. The seeding of wheat and other small grains was not completed until the middle of May. Conditions during the summer months favored the growth of small grains, meadows and pastures. Heavy rains during September benefited cultivated crops although threshing was delayed. Killing frosts occurred during late September and caused considerable damage to corn. October and November were very dry. Late harvesting and threshing of small grains and digging of late potatoes were completed without any serious frost damage.

Table 2. Monthly and Annual Temperature, 1945 Crookston Roseau Angus Tempera-Depart-Tempera-Depart-Tempera-Departure from ure from ture (deure from ture (deture (degrees, F.) grees, F.) normal grees, F.) normal normal January 9.5 +5.5 7.8 +5.4 6.6 +5.4 February 13.2 +5.8 11.3 +4.8 9.8 +4.8 Harch 34.6 +12.2 33.4 +11.4 31.1 +11.2 April 39.2 -2.4 37.8 -2.6 35.8 -3.947.3 -7.2 46.5 46.6 -6.4 Hay -6.8 June 59.2 -5.2 58.7 -3.7 58.4 -4.1July 66.9 -2.6 66.4 -1.1 66.2 -1.1 66.6 66.0 40.7 65.6 +1.3 August 0.0 September 53.4 -3.8 53.6 -2.5 53.0 -2.1 October 43.3 -1.242.0 -1.6 41.8 -0.9 23.2 -2.7 23.6 November 26.0 -0.5 -0.7 December 3.9 5.3 -3.3 6.0 -6.1 -6.0

Table 3. Net Worth Statement for Those Farmers Who Kept a Complete Record of All

-drammer . "drammer"		our Farm		Owners
of men from Precipi- ure from	Jan.	l Dec. 31	Jan. 1	Dec. 31
Total acres in farm	01112	2007.00	382	9
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nen teu	01×0	Work.	ES . 0	
# 10.0± 00.0 88.0*	IE.I.	DZ - 0+	2 2 2 2	0.43.0
Total farm capital	88.5	1 Walt	17713 1	
Accounts receivable	GIv.L	10. Dec	50	57
Stocks and bonds	25-4	-0.26		1523
Life insurance	78-87	I August	398	418
Other outside investments	81 -5	-0×17.	58	52
Total outside investments	TE E	- 08.Ja	,	1993
Cash on hand and in bank	0.0.1	10.1-	725	1002
Other household and personal assets	0.16	48.0-	1136	1142
Total cash, household and personal assets	The Control	BE. DH	1861	2144
TOTAL ASSETS	573.01	A8.04	21337 2	2612
Federal Land Bank Mortgage	30.06	25.50	481	378
Other mortg. on land operated	18.00	\$8.50H	2059	1146
Crop loans	19.82	37.74	19,48	73
Other chattel mortgages	En 100	NE C C4	64	130
250 Km a.		20 A.	119	598
25/2 8 / 25	10 8 5	E A.	3	20
Accounts payable TOTAL LIABILITIES	00		2726	2345
Farmer's net worth		†	18611 2	
raimer a net worth				
Gain in net worth	19,73		50.462 +	1656
Gain in net worth	28 P	art Owners*	53.65	1656
Gain in net worth and a second	28 P	1 Dec. 31	50.63 Land Angeling Appeting A	1656
Gain in net worth	28 P Jan.	l Dec. 31	So.65 or duking Apr a The seets	1656 mol
Gain in net worth	28 P Jan.	1 Dec. 31	20.63 during Apa a The seese a record types	1656 mol
Gain in net worth Total acres in farm Owned	28 P Jan. 461 305	1 Dec. 31	20.63 The seeds the seeds of the seeds	1656 mil
Gain in net worth Total acres in farm Owned Rented	28 P Jan.	1 Dec. 31	So.63 The seeds The	1656 mil
Gain in net worth Total acres in farm Owned Rented	28 P Jan. 461 305 156	1 Dec. 31	20.63 The seeds the seeds of the seeds	1656 mil
Gain in net worth Total acres in farm Owned Rented Total farm capital	28 P Jan. 461 305 156 \$16179	1 Dec. 31	20.63 The seeds The	1656 mol
Gain in net worth Total acres in farm Owned Rented Total farm capital Accounts receivable	28 P Jan. 461 305 156 \$16179 67	1 Dec. 31 \$17879 160	20.63 The seeds The	1656 mol
Gain in net worth Total acres in farm Owned Rented Total farm capital Accounts receivable Stocks and bonds	28 P Jan. 461 305 156 \$16179 67 1898	1 Dec. 31 \$17879 160 2408	20.63 The seeds The	1656 mil
Gain in net worth Total acres in farm Owned Rented Total farm capital Accounts receivable Stocks and bonds Life insurance	28 P Jan. 461 305 156 \$16179 67 1898 476	\$17879 160 2408 546	Sa.62 The seal through a seal through in a seal through a seal through in a seal through in a seal through a seal through in a seal throu	1656 mil
Gain in net worth Total acres in farm Owned Rented Total farm capital Accounts receivable Stocks and bonds Life insurance Other outside investments	28 P Jan. 461 305 156 \$16179 67 1898 476 91	\$17879 160 2408 546 87	Sa.CE In adding to the man addition in a second in a	1656 mol
Total acres in farm Owned Rented Total farm capital Accounts receivable Stocks and bonds Life insurance Other outside investments Total outside investments	28 P Jan. 461 305 156 \$16179 67 1898 476 91 2465	\$17879 160 2408 546 87 3041	Sa.cz 1 A paking to paking a paking be a paking keep keep keep keep keep keep keep kee	1656 mol
Total acres in farm Owned Rented Total farm capital Accounts receivable Stocks and bonds Life insurance Other outside investments	28 P Jan. 461 305 156 \$16179 67 1898 476 91 2465 1461	\$17879 160 2408 546 87 3041 1238	Sa.cz 1 paga gatrub re place odl 4 place odl 6 place o	1656 mol
Total acres in farm Owned Rented Total farm capital Accounts receivable Stocks and bonds Life insurance Other outside investments Total outside investments	28 P Jan. 461 305 156 \$16179 67 1898 476 91 2465	\$17879 160 2408 546 87 3041	So.63 The sease of the sease o	1656 mol
Total acres in farm Owned Rented Total farm capital Accounts receivable Stocks and bonds Life insurance Other outside investments Total outside investments Cash on hand and in bank Other household & personal assets	28 P Jan. 461 305 156 \$16179 67 1898 476 91 2465 1461	\$17879 160 2408 546 87 3041 1238	E3.63 The seeks of the seeks o	1656 mol
Gain in net worth Total acres in farm Owned Rented Total farm capital Accounts receivable Stocks and bonds Life insurance Other outside investments Total outside investments Cash on hand and in bank Other household & personal assets Total cash, household & personal assets	28 P Jan. 461 305 156 \$16179 67 1898 476 91 2465 1461 1030	\$17879 160 2408 546 87 3041 1238 1112	Sa.CE The seal of	1656 mol
Gain in net worth Total acres in farm Owned Rented Total farm capital Accounts receivable Stocks and bonds Life insurance Other outside investments Total outside investments Cash on hand and in bank Other household & personal assets Total cash, household & personal assets	28 P Jan. 461 305 156 \$16179 67 1898 476 91 2465 1461 1030 2491	\$17879 160 2408 546 87 3041 1238 1112 2350	Sa.CE The seal of a seal of the seal of	1656 mol
Gain in net worth Total acres in farm Owned Rented Total farm capital Accounts receivable Stocks and bonds Life insurance Other outside investments Total outside investments Cash on hand and in bank Other household & personal assets Total cash, household & personal assets	28 P Jan. 461 305 156 \$16179 67 1898 476 91 2465 1461 1030 2491 21202	\$17879 160 2408 546 87 3041 1238 1112 2350 23430	So.63 A darking Apple of the sealing with the sealing and the sealing at the sea	1656 mol
Total acres in farm Owned Rented Total farm capital Accounts receivable Stocks and bonds Life insurance Other outside investments Total outside investments Cash on hand and in bank Other household & personal assets Total cash, household & personal assets TOTAL ASSETS Federal Land Bank mortgage Other mortgage on land operated	28 P Jan. 461 305 156 \$16179 67 1898 476 91 2465 1461 1030 2491 21202 603	\$17879 160 2408 546 87 3041 1238 1112 2350 23430 569 962	English Appropriate the sease of the sease o	1656 mol
Total acres in farm Owned Rented Total farm capital Accounts receivable Stocks and bonds Life insurance Other outside investments Total outside investments Cash on hand and in bank Other household & personal assets Total cash, household & personal assets Total ASSETS Federal Land Bank mortgage Other mortgage on land operated Crop loans	28 P Jan. 461 305 156 \$16179 67 1898 476 91 2465 1461 1030 2491 21202 603 1050 74	\$17879 160 2408 546 87 3041 1238 1112 2350 23430 569 962 30	English The seeds Th	1656 mol
Total acres in farm Owned Rented Total farm capital Accounts receivable Stocks and bonds Life insurance Other outside investments Total outside investments Cash on hand and in bank Other household & personal assets Total cash, household & personal assets Total ASSETS Federal Land Bank mortgage Other mortgage on land operated Crop loans Other chattel mortgages	28 P Jan. 461 305 156 \$16179 67 1898 476 91 2465 1461 1030 2491 21202 603 1050 74 189	\$17879 160 2408 546 87 3041 1238 1112 2350 23430 569 962 30 132	E3.63 The seeks of the seeks o	1656 mol
Total acres in farm Owned Rented Total farm capital Accounts receivable Stocks and bonds Life insurance Other outside investments Total outside investments Cash on hand and in bank Other household & personal assets Total cash, household & personal assets Total ASSETS Federal Land Bank mortgage Other mortgage on land operated Crop loans Other chattel mortgages Notes payable	28 P Jan. 461 305 156 \$16179 67 1898 476 91 2465 1461 1030 2491 21202 603 1050 74 189 122	\$17879 160 2408 546 87 3041 1238 1112 2350 23430 569 962 30 132 159	Sa.CE The seal of a sea	1656 mol
Total acres in farm Owned Rented Total farm capital Accounts receivable Stocks and bonds Life insurance Other outside investments Total outside investments Cash on hand and in bank Other household & personal assets Total cash, household & personal assets Total ASSETS Federal Land Bank mortgage Other mortgage on land operated Crop loans Other chattel mortgages Notes payable Accounts payable	28 P Jan. 461 305 156 \$16179 67 1898 476 91 2465 1461 1030 2491 21202 603 1050 74 189 122 21	\$17879 160 2408 546 87 3041 1238 1112 2350 23430 569 962 30 132 159 1	E3.63 The seeks of the seeks o	1656 mol
Total acres in farm Owned Rented Total farm capital Accounts receivable Stocks and bonds Life insurance Other outside investments Total outside investments Cash on hand and in bank Other household & personal assets Total cash, household & personal assets Total ASSETS Federal Land Bank mortgage Other mortgage on land operated Crop loans Other chattel mortgages Notes payable	28 P Jan. 461 305 156 \$16179 67 1898 476 91 2465 1461 1030 2491 21202 603 1050 74 189 122	\$17879 160 2408 546 87 3041 1238 1112 2350 23430 569 962 30 132 159	Sa.CE The seal of a sea	1656 mol

^{*10} rented for cash, 9 cash and crop share, and 9 crop share.

Gain in net worth

+2434

- 5 -

Summary of Farm Earnings by Tenure, Operator's Share, 1945 Your farm owners owners FARM EXPENSES \$ 80 Dairy and dual-purpose cows bought Other dairy and dual-purpose cattle bought Beef cattle bought (including feeders) .44 Hogs bought Sheep bought (including feeders) Poultry bought (including turkeys) Horses bought Misc. livestock expenses lisc. crop expenses Feed bought Custom work hired Hech. power mach. (farm share) (new) Mech. power mach. (farm share) (upkeep) Hech. power (farm share) (gas, oil, etc.) Crop and general mach. (new) Crop and general mach. (upkeep) Livestock equipment (new) Livestock equipment (upkeep) Buildings and fencing (new) Buildings and fencing (upkeep) Hired labor Taxes (real estate & personal property) General farm and insurance Cash rent Interest paid (1) Total farm purchases (2) Decrease in farm capital (3) Board furnished hired labor (4) Interest on farm capital (5) Unpaid family labor (6) Total farm exp. (Sum of (1) to (5) FARM RECEIPTS Dairy and dual-purpose cows Dairy products Other dairy and dual-purpose cattle Beef cattle (including feeders) Hogs Sheep and wool (including feeders) 4:16 Poultry (including turkeys) Eggs Horses Potatoes Small grain Other crops Hachinery and equipment sold Agricultural adjustment payments 329 -Income from work off the farm Misc. (7) Total farm sales (8) Increase in farm capital (9) Family living from the farm (10) Total farm receipts (7) + (8) + (9)(6) Total farm expenses (11) Operator's labor earnings (10) - (6) (12) Ret. cap. & family labor (4) + (5) + (11)

. Table 5. Summary of Farm Inventories, 1945*

ETOLIKO DISTO	Y	our Farm	A.	verag	e of 54	Farm
I tems .	Jan.	l Dec.		an. l		
Size of farm (acres)	100		ne og ruig-	122	Aca gal	Del
Size of business (work units) **	Arbun al da	was erequi		466	date val	
Productive livestock (total)	Ś	\$	\$	2681	\$2771	
Dairy and dual-purpose cows		1410 001	edhuitai	966	939	
Other dairy & dual-purpose cattle	1	LANGE TO STATE OF THE PARTY.	mest, and J	528	562	
Beef cattle (incl. feeders)				378	454	
Hogs	NAME OF THE OWNER OWNER OF THE OWNER OWN	519	seeminging in	285	311	da.
Sheep (including feeders)		-	monac	388	370	
Poultry (including turkeys)				136	135	
Jorses	-		.500	235	205	ud)
Crop, seed, and feed	1997	(PERMIT	ona) sala	2091	2454	
lachinery & equipment (total)	(104-44)	r) (osania n		3050	3309	
Power machinery (farm share)	(a D 2 m - 4 2 2	to there is	and the same of th	1281	1310	
Crop & general machinery (farm share)	- (1 000.)		1396	1593	175
Livestock equipment & supplies	· -	(Lighten)	all same la	373	406	
Buildings, fences, etc.	-	(91	a) themp	4006	4358	
Land	**************************************	(10 20)		5656	5656	24
Mary Day	•	(Wells)	Entomol	hinn	station.	
Total farm capital	-	idaaxiin)	Barbaal	7719	18753	
				-	and the same	
8C 7 - 20 10.5	11 mo	st profita farms	ble ll	leas	t profi farms	tabl
96 76 601 99 801 99	ll mo Jan.	farms		leas	farms	
96 76 66 76 80 7	Jan.	farms			farms	
Size of farm (acres) Size of business (work units)**		farms		an. 1	farms	
Size of farm (acres) Size of business (work units)**	Jan. 597	farms 1 Dec.	31 J	an. 1	farms Dec.	
Size of farm (acres) Size of business (work units)** Productive livestock (total)	Jan. 597 \$3802	farms Dec. \$3893	31 J	an. 1 341 2343	farms Dec.	
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy and dual-purpose cows	Jan. 597 \$3802 1107	farms 1 Dec. \$3893 980	31 J	an. 1 341 2343 736	farms Dec. \$2169 747	
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy and dual-purpose cows Other dairy & dual-purpose cattle	Jan. 597 \$3802 1107 466	farms 1 Dec. \$3893 980 387	31 J	an. 1 341 2343 736 605	\$2169 747 615	
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy and dual-purpose cows Other dairy & dual-purpose cattle Beef cattle (including feeders)	Jan. 597 \$380.2 1107 466 976	farms 1 Dec. \$3893 980 387 1162	31 J	an. 1 341 2343 736 605 251	\$2169 747 615 157	
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy and dual-purpose cows Other dairy & dual-purpose cattle Beef cattle (including feeders) Hogs	Jan. 597 \$3802 1107 466 976 374	farms 1 Dec. \$3893 980 387 1162 516	31 J	an. 1 341 2343 736 605 251 247	\$2169 747 615 157 146	
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy and dual-purpose cows Other dairy & dual-purpose cattle Beef cattle (including feeders) Hogs Sheep (including feeders)	Jan. 597 \$3802 1107 466 976 374 674	farms 1 Dec. \$3893 980 387 1162 516 667	31 J	an. 1 341 2343 736 605 251 247 387	\$2169 747 615 157 146 380	
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy and dual-purpose cows Other dairy & dual-purpose cattle Beef cattle (including feeders) Hogs Sheep (including feeders) Poultry (including turkeys)	Jan. 597 \$3802 1107 466 976 374 674 205	farms 1 Dec. \$3893 980 387 1162 516 667 181	31 J	an. 1 341 2343 736 605 251 247 387 117	\$2169 747 615 157 146 380 124	
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy and dual-purpose cows Other dairy & dual-purpose cattle Beef cattle (including feeders) Hogs Sheep (including feeders) Poultry (including turkeys) Horses	Jan. 597 \$3802 1107 466 976 374 674 205 241	\$3893 980 387 1162 516 667 181 224	31 J	an. 1 341 2343 736 605 251 247 387 117 194	\$2169 747 615 157 146 380 124 163	
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy and dual-purpose cows Other dairy & dual-purpose cattle Beef cattle (including feeders) Hogs Sheep (including feeders) Poultry (including turkeys) Horses Crop, seed, and feed	Jan. 597 \$3802 1107 466 976 374 674 205 241 3671	\$3893 980 387 1162 516 667 181 224 6134	31 J	an. 1 341 2343 736 605 251 247 387 117 194 1459	\$2169 747 615 157 146 380 124 163 1106	
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy and dual-purpose cows Other dairy & dual-purpose cattle Beef cattle (including feeders) Hogs Sheep (including feeders) Poultry (including turkeys) Horses Crop, seed, and feed Machinery & equipment (total)	Jan. 597 \$380.2 1107 466 976 374 674 205 241 3671 5329	\$3893 980 387 1162 516 667 181 224 6134 5662	31 J	an. 1 341 2343 736 605 251 247 387 117 194 1459 2249	\$2169 747 615 157 146 380 124 163 1106 2510	
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy and dual-purpose cows Other dairy & dual-purpose cattle Beef cattle (including feeders) Hogs Sheep (including feeders) Poultry (including turkeys) Horses Crop, seed, and feed Machinery & equipment (total) Power machinery (farm share)	Jan. 597 \$3802 1107 466 976 374 674 205 241 3671 5329 2200	\$3893 980 387 1162 516 667 181 224 6134 5662 2102	31 J	an. 1 341 2343 736 605 251 247 387 117 194 1459 2249 1086	\$2169 747 615 157 146 380 124 163 1106 2510 1118	
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy and dual-purpose cows Other dairy & dual-purpose cattle Beef cattle (including feeders) Hogs Sheep (including feeders) Poultry (including turkeys) Horses Crop, seed, and feed Machinery & equipment (total) Power machinery (farm share) Crop & general machinery	Jan. 597 \$3802 1107 466 976 374 674 205 241 3671 5329 2200 2518	\$3893 980 387 1162 516 667 181 224 6134 5662 2102 2971	31 J	an. 1 341 2343 736 605 251 247 387 117 194 1459 2249 1086 903	\$2169 747 615 157 146 380 124 163 1106 2510 1118 1066	
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy and dual-purpose cows Other dairy & dual-purpose cattle Beef cattle (including feeders) Hogs Sheep (including feeders) Poultry (including turkeys) Horses Crop, seed, and feed Machinery & equipment (total) Power machinery (farm share) Crop & general machinery Livestock equipment & supplies	Jan. 597 \$3802 1107 466 976 374 674 205 241 3671 5329 2200 2518 611	\$3893 980 387 1162 516 667 181 224 6134 5662 2102 2971 589	31 J	an. 1 341 2343 736 605 251 247 387 117 194 1459 2249 1086 903 260	\$2169 747 615 157 146 380 124 163 1106 2510 1118 1066 326	
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy and dual-purpose cows Other dairy & dual-purpose cattle Beef cattle (including feeders) Hogs Sheep (including feeders) Poultry (including turkeys) Horses Crop, seed, and feed Machinery & equipment (total) Power machinery (farm share) Crop & general machinery Livestock equipment & supplies Buildings, fences, etc.	Jan. 597 \$3802 1107 466 976 374 674 205 241 3671 5329 2200 2518 611 5919	\$3893 980 387 1162 516 667 181 224 6134 5662 2102 2971 589 6472	31 J	an. 1 341 2343 736 605 251 247 387 117 194 1459 2249 1086 903 260 3490	\$2169 747 615 157 146 380 124 163 1106 2510 1118 1066 326 3432	
Size of farm (acres) Size of business (work units)** Productive livestock (total) Dairy and dual-purpose cows Other dairy & dual-purpose cattle Beef cattle (including feeders) Hogs Sheep (including feeders) Poultry (including turkeys) Horses Crop, seed, and feed Machinery & equipment (total) Power machinery (farm share) Crop & general machinery Livestock equipment & supplies	Jan. 597 \$3802 1107 466 976 374 674 205 241 3671 5329 2200 2518 611	\$3893 980 387 1162 516 667 181 224 6134 5662 2102 2971 589	31 J	an. 1 341 2343 736 605 251 247 387 117 194 1459 2249 1086 903 260	\$2169 747 615 157 146 380 124 163 1106 2510 1118 1066 326	

^{*}For the purpose of comparison, all the data shown in this report with the exception of Tables 3 and 4 are presented on a full-owner basis. The assets, expenses and receipts of the landlord were included in the records from rented farms.

(11) + (8) + (b) redni vilmel 0 +000 atp. (61)

^{**}See page 11 for an explanation of "work units".

mah.	le 6.	Farm	Produc	e Heed in	House and	House	Rental	1945	
nidetilans Air	16 00	7. CVT 311	210000	0 0500. 111	1100000 0011				
107/7		2)	Aver- age	ll most profit-	11 least		Aver- age	ll most profit-	
	06	Your .	of 54	able	able	Your	of 54	able	able
Items	2.5	farm	farms	farms	farms	farm	farms	farms	farms
No. of adult eq	uiv.	I	4.9		(gualical)	Surphite	ni) /ma	100 =114	
Family	1.5		3.2	3.0	2.6				of all of
Other*			.6	. 9	• 5			a mark	Q. S. Period
Whole milk			867 qt	s. 893	611	\$	\$47.95	\$50.57	\$34.79
Skim milk	400		963 qt	s. 919	1135	11.002	6.24	5.15	5.99
Cream			-	s. 276	338		77.32	57.08	72.40
Farm-made butte	r	a .	19 Ît		9		8,95	.89	4.28
legs	18	W E		z. 197	125		47,57	63,97	39,55
Cattle	53			s. 736	385		55.06	83,95	38.00
Hogs 191				s. 538	405	ercede i	74.54	76.54	69.36
Sheep		4	30-11		35	eradin i	2.32	1.55	3.18
Poultry		0	67 13		74	385) [3	16.60	19.65	19.95
Potatoes		V.	. 23 bu		24	(Noti)	30.75	33.50	31.85
Vegetables & fr	uits		287		(0	osti(mi)	81.86	109.09	48.18
Farm fuel	53		6 cd	is. 5	4	- (V)	30.20	26.91	21.27
Rental val. of	house		200			(20002)	139.23	157.40	131.70
00	188		57.9			(1000)	talian	T bee so	MILLELDE
Total						\$ \$	618.59	\$686.25	\$520.50
800								7001	it beat i

- 355 -					1203.141	Aver-	7 most	7 leas
61		33		1	rud lake	age	profit-	profit
21.0	3.473	8.1.6	-		Your	of 15	able	able
Items	Soa	211	SUPPLIED OF S		farm	farms	farms	farms
Number of pers	ons - famil	У		101 00 1	17 . 10 III	4.3	4.4	4.1
Tumber of adul	t equivalen	ts		1.4.0			5-14.W	Line Sund
Family	284	\$ 177	-		E.A.0.0	3.0	3.1	2.8
Other*		3.646	_			.6	.7	.6
385	984	900	-	elt	2AS BEIN	and-Tro	m a filter	TORRUS .
Food and meals	bought	422	-		\$	\$347	\$390	\$268
Operating and	supplies	869				114	100	139
Clothing and c	lothing mat	erials	-	10.20	name tens	207	263	145
Personal care,	personal s	pending	-		1 p. Can	78	114	45
Furnishings ar	d equipment		-			68	103	36
Education, red	reation, an	ddevelopm	ent			73	118	34
ledical care a	nd health i	nsurance	-			88	96	85
Church, welfar	e and gifts	OSAT	_		-11	181	226	161
Income tax		242	-			265	482	80
Personal share	of auto ex	pense				62	84	36
Household shar					non And	18	16	13
H.H. & pers. s	h. of new a	uto, gas	eng. & m	otor bot.	WEBI 91	A . 1 Pb.:	Made Toat	WILLIAM
Life insurance	and other	investmen	ts			785	1116	<u>566</u>
Fotal househol	d and perso	nal cash	expenses		Lat ly	\$2286	\$3108	\$1608
Food furnished	by the far	m May a	-	(e) - (a)	(2)	453	531	342
Tuel furnished				1-1 - 101		36	50	12
House rental	7523	8174		(a) -	(01)	123	124	110

Table 8. Summary of Farm Harnings (Cash Statement), 1945 Average 11 most 11 least of 54 profitable profitable Your Items farm farms farms farms FARM EXPENSES Dairy and dual-purpose cows bought \$ 90 Other dairy & du. pur. cattle bought Beef cattle bought (including feeders) Hogs bought Sheep bought Poultry bought (including turkeys) .8 Horses bought Misc. livestock expense Misc. crop expenses Feed bought Custom work hired Mech. power mach. (farm share) (new) Mech. power mach. (farm share) (upkeep) Mech. power (farm share) (gas, oil, etc.) Crop and general mach. (new) Crop and general mach. (upkeep) Livestock equipment (new) Livestock equipment (upkeep) Buildings and fencing (new) Buildings and fencing (upkeep) Hired labor Taxes General farm and insurance (1) Total farm purchases (2) Decrease in farm capital (3) Board furnished hired labor (4) Interest on farm capital (5) Unpaid family labor (6) Total farm exp. (Sum of (1) to (5) FARM RECEIPTS Dairy and dual-purpose cows Dairy products Other dairy & dual-purpose cattle Beef cattle (including feeders) Sheep and wool (including feeders) €07 Poultry (including turkeys) Eggs Horses Potatoes Small grain Other crops Machinery & equip. sold Agricultural adjustment payments Income from work off the farm Misc. (7) Total farm sales (8) Increase in farm capital . _ (9) Family living from the farm (10) Total farm receipts (7) - (8) - (9) (6) Total farm expenses (11) Oper. labor earnings (10) - (6)

> household and personal expenses bulg or piners berided.

Table 9. Summary of Farm Earnings (Enterprise Statement), 1945* 11 most 11 least Average Your of 54 profitable profitable farms Items farm farms farms EXPENSES AND NET DECREASES \$995 \$1504 \$763 Total power Horses Tractor Truck Auto (farm share) Gas engine (farm share) Elec. plant or current (farm share) Hired power Crop and general machinery Livestock equipment Buildings, fencing and tiling Hisc. productive livestock expense Labor Real estate taxes Personal property tax Insurance General farm Interest on farm capital (1) Total expenses and net decreases RETURNS AND NET INCREASES \$5044 All productive livestock \$7281 \$3553 Dairy and dual-purpose cows Other dairy & dual-purpose cattle Beef cattle Hogs Sheep - farm flock Turkeys and capons Chickens Crops, seed and feed Income from labor off the farm Agricultural conservation payments Miscellaneous (2) Total returns & net increases (1) Total expenses & net decreases (3) Oper. labor earnings (2) - (1)

^{*}Cash receipts and expenses are adjusted for changes in inventory for each enterprise and for each item of expense in order to show total receipts and net increases, and total expenses and net decreases. The operator's labor earnings are the same as those in page 8.

CUMULATIVE EFFECT OF EXCELLING IN A NUMBER OF MANAGEMENT FACTORS

Eour.

(Seternited Statement), 1945"

The relation of several management factors to operator's labor earnings has been shown in the preceding section. Because of the large number of interrelation-ships between these factors the exact relationship between one factor and earnings could not be determined. However, when the combined or cumulative influence of seven management factors on earnings is shown, the relationship becomes more marked. This is illustrated in Table 10. These seven factors alone are responsible for a considerable proportion of the variation among farmers in the returns secured from the farm business. Insofar as these factors are within the farmer's control, he will be well paid for his efforts to improve his efficiency in them.

Table 10. Relation of Operator's Labor Earnings to the Number of Factors in which the Farm Is Above Average

No. of factors in which farm	No. of	Your	The length of the shaded lines proportion to the average oper	ator's labor
excels	farms	farm	labor earnings	earnings
None or	6		XXXXXXXXXX	\$1289
one		18576		sevil evilonment
		2081	SDCI strong sand	
Two	14	SEX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2667
18 26		840	. 0ES	
Three	10	r car.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2802
		898		
Four	13	1,500	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX 3780
			155	250
Five	9	Augs.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	xxxxxxx 4109
	387	0.80	the fairs	
Six or			ESS #disample intits	waspen least
seven	3	0.0	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXX 4491
		9941 (M. F.		A suredor Lates III

The array in Table 10 indicates that it will be worth while for each cooperator to study carefully his ranking on pages 12 and 13 and learn his standing in respect to each of the above factors and the elements of strength and weakness in his farm business.

The sed objection are adjusted for changes in investory for each chief-

tarel il duor il	Your	Average of 53	ll most profitable	ll least profitable
Items	farm	farms*	farms	farms
Tood non homes ** The *				DONG BU
reed per norse, Ins	V.	Fam	504	
Grain		567	586	588
Hay		4440	4506	4340
Feed costs per horse:			* " " " " " " " " " " " " " " " " " " "	(1) (money
Grain	\$	\$10.60	\$11.07	\$11.20
Roughage	- **********	15.74	16.06	15.17
Pasture		2.84	2.77	2.72
TOTAL FEED COSTS	\$	\$29.18	\$29.90	\$20.09
Number of work horses	861 April 200	3.4	3.4	2.9
Number of colts		•4	• 3	.3
117 F36		e thing areas	- senation i	o os 28 (a)-
Crop acres per farm		239.1	347.2	158.4
Tractor & horse exp. per crop acre	\$	\$2.75	\$2.55	\$3.11
Crop & gen. mach. exp. per crop acres	\$	1.29	1.12	1.33

^{*}One farmer did not have horses. The crop acres and expenses per crop acre are averages of 54 farms.

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 12.

Table 12. Number of Work Units for Each Class of Livestock

	1.00	F1 (1)	No. of	Each Acre	January I. F. and January	No.of	
Item		ES	work uni		Item	No.01 work units	
Dairy and	l dual-pur.	COW	15.5 per	COM	Small grai	n .7 per acre	(0)
Other dai	ry & dual-	1.4			Sugar beet	s 2.5 per acre	
purpo	se cattle	Dr.	2.4 per	an. unit*	Seed potat	oes 4.3 per acre	v.
Beef bree	eding herd	*	4.3 per	an. unit*	Other pota	toes 3.8 per acre	
Feeder ca	ttle	03.50	.3 per	100 lbs.	Corn, husk	ed 1.3 per acre	(7)
Sheep - f	farm flock	co.	2.2 per	an. unit*	Corn, shre	dded 2.0 per acre	
Hogs	71.	8.0%	.3 per	100 lbs.	Corn silag	e 1.4 per acre	
Turkeys	EG.	55	.7 per	100 lbs.	Corn fodde	r l.l per acre	
ilens			28.0 per	100 hens	Alfalfa ha	y .8 per acre	
				+00.00	Other hay		-
111 31				7 (8) (4			1.10

^{*}Animal unit represents one cow, one bull, one feeder steer or heifer, two head of other cattle, seven head of sheep, fourteen lambs, five hogs, ten pigs, 100 hens or 1400 pounds of turkeys produced.

^{**}Two colts equal one horse.

	Your farm	Average of 54 farms		ll leas profit- able farms
Operator's labor earnings \$		\$3174	\$6967	\$1055
(1) Crop yields*	·····	100	114	90
(2) 5 of tillable land in high ret. crops**		39.2	42.7	36.4
(3) Gross returns from prod. livestock***		100	104	96
(4) Prod. livestock units per 100 acres****		11.3	11.4	10.6
(5) Size of business - work units		521	711	364
(6) Work units per worker	-11	274	309	228
(7) Power, mach., equip. & bldg.exp. per work unit \$		\$3.14	\$3.08	\$3.44
Items related to some of the above measures:			Foot se	11.74
(3) Index of gross returns from -				Lor
Dairy cattle		100	114	88
Dual-purpose cattle		100	86	. 98
Beef cattle - breeding herd		100	91	-
Beef cattle - feeders		100	-	
Hogs		100	99	93
Sheep - farm flock		100	115	94
Turkeys	0=1	100	104	96
		100	109	121
Chickens	- 11/1-3			
Harris Towns of the Washington and a Mass shad	Man	1.86	276	1.22
(5) Work units on crops		186	276 381	122 230
Harries to wast by a set office that		186 302 33	276 381 54	122 230 12
(5) Work units on crops Work units on productive livestock Other work units (6) Total number of workers		302 33	381 54 2.3	230 12
(5) Work units on crops Work units on productive livestock Other work units		302 33	381 54	230 12
(5) Work units on crops Work units on productive livestock Other work units (6) Total number of workers Number of family workers		302 33 1.9 1.4	381 54 2.3 1.5	230 12 1.6 1.3
(5) Work units on crops Work units on productive livestock Other work units (6) Total number of workers Number of family workers Number of hired workers (7) Power expense per work unit		302 33 1.9 1.4 .5	381 54 2.3 1.5	230 12 1.6 1.3
(5) Work units on crops Work units on productive livestock Other work units (6) Total number of workers Number of family workers Number of hired workers		302 33 1.9 1.4 .5	381 54 2.3 1.5 .3 \$2.00	230 12 1.6 1.3 .3 \$2,15

^{*}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 farmstead were not included.

Thermometer Chart

Using your figures from page 12 locate your standing with respect to the various measures of farm organization and management efficiency. The averages for the 54 farms included in this summary are located between the dotted lines across the center of this page.

Ope *lak ear ins	bor rn-		op ields		High return crops	. 7 6	Retur from ducti lives	ne Dr.o-	uni	l.s. its	Work	Wor uni per work	ts	Pow., eq., & exp. work	bldg per
37200		140	E	55.0		140		19.		800	E	395		\$1.55	
6700		135		53.0	Ħ	135		18.	4	768		380		1.75	
6200		130		51.0	E	130		17.	4	730		365	-	1.95	E a la
5700		125	=	49.0	E	125	E	16.	4	698	5	350	=	2.15	
5200	35 e C	120		47.0		120		15.	4	660		335		2.35	
4700	3 (C)	115		45.0	H	115	E	14.	4	62		320		2.55	
4200		110	H	43.0		110	E	13.	4	590	E	305	-0	2.75	
3700	typu.	105		41.0		1.05	Ħ	12.	4	55		290	2 . ⊘ 0/e	2.95	
3200		100		39.0		100		11.	4	520		275		3.15	
2700		95		37.0		95	H	10.	4 -	48	5 E	260		3.35	
2200		90		35.0		90	Ħ	9.	4 =	450		245	=	3.55	
1700		85		33.0		85	目	8.	4	41:	5 =	230		3.75	
1200		80		31.0		80		7.	4	380		215		3.95	
700		75		29.0		75	H	6.	4	34	5	200	Ξ	4.15	
200		70		27.0		70	目	5.	4	310		185	<u>-</u> =	4.35	
-300		65	=	25.0		65	E	4.	4 =	27	5	170	=	4.55	
		((=)		(o Edn.	(-)

Table 14. Di	No.	ASSALIS	Aver.		11 least	Average
efer to ranking used in cal-	growing		of	profit-	profit-	per farm
ulating % of tillable land in	this	Your	54	able	able	growing
igh Return Crops (see page 12)	crop	farm	farms	farms	farms	each cro
heat (A)	41		28,2	59.6	11.0	37.1
lax (B)	31		28.1	59.5	15.5	48.9
Barley (B)	33		18,0	33.2	13.4	29.4
Dats (C)	53		54.1	70.0	31.5	55.2
Rye, spelt, millet, field (D) peas	12		3.0	2.0	1.8	13.9
Total small grain and peas	54		131,4	224.3	73.2	131.4
Seed potatoes, and garden (A)	5		2.6	4.6		29.0
Other potatoes (B)	15	-	1.8	5.9	1.8	6.6
Corn, grain (C)	26		9.0	14.7	6.4	18.8
Corn silage (D)	32		9.9	9.9	10.2	16.7
						11.1
Corn fodder (D)	16		3.3	2.5	3.5	TT•T
Total cultivated crops	49		26.6	37.6	21.9	29.4
Alfalfa hay (A)	49		31.5	35.7	31.04	34.8
Alside clover hay or seed					-	
(hay B, se		12	_ 6.1	6.5	-	55•2
Sweet clover hay (C)			7.0	14,2	····	37.9
Sweet clover seed (C)			5.0	2,9	2.4 3.4	20.6
Mixed leg. & non-leg. for hay (C)	5		1,8		3.4	19.3
Brome grass or meadow fescue(C)	5		2.4	8.9	•5	21.5
Timothy and/or brome hay (D)	12		2.7	3.6	4.5	13.2
Misc.hay and seed crops (D)			2.8	•9.	2.0	29.8
Quack grass & wild hay on	,	-		•)	2.00	2)•0
tillable land (D)	19		16.1	11.7	13.0	45.7
villable laid (1)	15	-	- TO 9 T	TT• (15.0	TO•1
Total tillable land in hay	7 54		_ 75° [‡]	g4°8	57.2	75.4
Alfalfa pasture (A)) 10		3.5	3.6	•5	18,7
Mix. incl.alf., sw.clo., brome(B)		-	- 19°8	21.0	18 . 5	41.2
Sweet clover pasture (C)			8.2	19.6	4.5	29.6
Other tillable pasture (D)) 20		13.0	27.2	12.7	35.1
Total tillable land in pas	sture ¹¹⁹		44.5	71.4	36.2	49.0
Tillable land not cropped (D)) 42		42.6	80.9	57.0	54.8
Total tillable land	54		320.5	49900	2115.5	320.7
Wild hay (non-tillable)	18		5.7	۰5	6.1	17.0
Non-tillable pasture	36	-	- 36 ₅ 4	19.9	49.4	54.6
Timber (not pastured)	27		26.0	29.0	21.4	52.0
Roads and waste	10.22		25.0	39,3	10.5	(E)
Farmstead		124	_ 8.4	9.3	7.9	
Motel comments of			1100.0	F07.0	7)10 0	
Total acres in farm			422.0	597.0	340.8	
5 tillable land		2	75.9	83.6	72.0	
5 tillable land in high return		-	39.2	1+2.7	36.4	

Table 15. Crop Yields per Acre. 1945

	the large	Tabl	.e 15. Cro	p Yields per	Acre, 194		
Crop			n of	Your farm	Average of 54 farms	ll most profitable farms	ll least profitabl farms
Wheat bu,					16.9	23.9	14.7
Flax, bu.					7.8	8.5	8.2
Barley, bu.	9				28.7	35.7	27.7
Oats, bu.					35.8	36.0	33.9
Oatos, bus					20.0	50.0	33.3
Rye, bu.					12.2	٠	wo H
Millet, bu.					6.9	_	
Field peas,	hu			·	g.1	, <u> </u>	CIAI.
Seed potatoe					97.0	_	Four
seed potatoe	s, bus				91.0	-	15-7-2
Other potato	og hii-				79.5	143.9	64.0
Com, grain,					22.4	30°4	15.2
Com silage,					5.0	6.4	and the second second
Corn fodder,					1.8		3.7
oom louder,	00115				1.0	. •9	2.2
Alfalfa hay,	tone	,			1.7	1.8	1.8
Alsike clove		ne			1.3	7.0	1.0
Alsike clove					114	-	311
Sweet clover					1.4	7 5	0.6
DMCGO CTOACT	nay, our	.5			T • +	1.5	136
Sweet clover	ff been	10			777	100	107
Mixed legume			hor tong		177 1•4	128	121
Meadow fescu			nery, cons			-	U.F.
				-	232	-	
Brome grass	nay, tons				1.1	-	-
Timothy hay,	tons			en set pos	1.0	LDGG	•8
Quack grass,	tons				•9	-	-
Wild hay, on		land.	tons		.8	-	•6
Wild hay on				*	•4	-	• 7
•							10.7415
							5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -

C. E., ...

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0.00

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variab

n Francis

Industry (don't) (don'

See page 17 for footsotes

L.L

See page 17 for footnotes

Table 16.	Summo my	of	Amount	OF	Livestock	7 945
TUDIC TO	DMIIIII	U1	AIIIO UIII G	O.L	LIL VESTOUCK.	T 2-1

Items	and to	Tool mak	Your farm	Averago of 54 fams		ll least profitable farms
No. of horses	0.01			3.4	3.4	2.7
No. of colts	1.5			4	• 3	
No. of dairy & dual-	0 820m	OMG		12.6	12,9	
Head of other dairy			0	15. ¹		13.5
Head of cattle in be				4.4	12.4	2.2
near of carrie in be	or procur	meru.	-	7. ₹	120 →.	C • C
Litters of pigs	(Fa-3)	-		3.6	7.6	2.0
Pounds of hogs produ	ced			5370	10784	3204
Head of sheep (2 lam		/he		146.0	72.7	
No. of hens	- 1 III	(coc)		107	1149	87
LOS OF HOMO	5.47			701	. abuters. Bu	0,1
Total no. of prod. 1	vstk. ani	mal units		36.3	50.4	28.1
% of total that are:				300	allero, bone	
Dairy cows	3.5			23.1	18.5	17.0
Other dairy cattle				13.2	10.7	8.8
Dual-purpose cows				16.1	13.8	21.9
Other dual-purpose					6.0	
Beef cattle	47.1			8.3	15.3	
Hogs	4.6			6.1	8.5	
Sheep - farm flock				15.2	17.2	18.1
Turkeys and capons				3.2	406.39VOLE	1.1
Hens	Jac 1		and a start	3.4-10	3.7	3.5
4				- Rid ! - J	Bear Dizowo'F w	Shan a la

acot gent santa a

You		ll highest in livestock	11 lowest in livestock
Items fa:	The second secon	returns	returns
DAIRY CATTLE			
No. of farms	30،	7	g
Gross returns per dairy cow \$	\$170.29	\$230.50	\$131.14
Pounds of butterfat per cow	234	300	195
No. of heads of cows	12.5	11.1	11.0
Gross ret. per head oth.dairy cattle\$	\$ 40.93	\$52.30	\$ 32.93
No. head of other dairy cattle	14.2	8.6	13.4
Gross ret. per an unit all da cattles	\$129.51	\$178.37	\$100.29
No. of an. units all dairy cattle	20.0	15.7	18.1
DUAL-PURPOSE CATTLE			
No. of farms	22	ŢŤ	3
Gross ret. per dual-purpose cow \$	\$139.51	\$203.93	\$78.10
Pounds of butterfat per cow	188	544	.117
No. of head of cows	13.9	15.5	22.8
Gross ret.per head oth.du.pur.cattle\$	\$ 42.29	\$ 44.66	\$40.40
No. head oth. du.pur.cattle*	19.3	24.7	13.2
Gross. ret.per an.unit all du.pur. \$ cattle	\$109.83	\$147.06	\$75.97
Mo. of an. units all dual pur.cattle PRICE REC'D PER IB. BUTTERFAT SOLD	23.5	28.3	29.9
All butterfat (cents)	69.8	74.S	65.1
Manufacturing cream (cents)	64.7	65.0	63.3
Retail milk or cream (cents)	82.3	82.0	88.0

Table 17. Returns from	Productive	Livestock,	1.945 (Cont.)	
		Average	11 highest	ll lowest
	Your	of 54	in livestock	in livestock
Items	farm	farms	returns	returns
BEEF BREEDING HERD				
No, of farms		7	1	1
Gross returns per animal unit	\$	\$55.96	-	-
No. animal units		23.0	-	-
No. beef cows and bulls		13.0	-	-
FEEDER CATTLE		J -		
No. of farms		3	0	1
Gross ret. per cwt. produced	\$	\$15.07	-	-
Lbs. of cattle produced	-	7428	-	-
Price rec'd. per cwt. sold	\$	\$11.73	-	-
Price rec'd per cwt. bought	1	9.04		9
HOGS	4	, , , ,		*
No. of farms	•	39	g	g
Gross ret. per cwt. produced	\$	\$14.17		\$13.95
Lbs. hogs produced	Ť	7145	5910	7122
No. spring litters		4.5	3.8	4.5
No. fall litters		.4	•5	•3
Total no. litters raised		4.9	4.3	4.8
Pigs born per litter		8.7	8.8	8.4
Pigs weaned per litter		6.8	6.5	6.7
Price rec'd, per cwt. sold	\$			\$14.17
SHEEP-FARM FLOCK	Y	ΨΞΙΘΞ	φ± (•Ο±	4 τ . • τ !
No. of farms		25	14	6
Gross ret. per head**	Ś	\$ 8.47		\$ 6.96
No. head of sheep		99	85	106
No. ewes kept for lambing		67	63	68
% lamb crop **	-	92	96	86
% death loss **		7.0	5•3	5•3
Lbs. wool per sheep sheared		7.2	7.6	6.7
Price rec'd per lb. wool sold (cts.	.)	46.2	44.5	47.4
Price rec'd per cwt. lambs sold	Ś	\$13.48		\$12.14
TURKEYS	-	7270.0	4-1 - 22	Ψ
Number of farms		7	1.	2
Number of poults		1008		290
Price paid per poult purchased (oto	3.1	82.9	_	81.2
% death loss		19.9	_	27.8
Gross ret. per cwt. produced	\$	\$30.78	_	\$29.54
Lbs. produced		13872	_ ,	3363
Price rec'd.per lb. sold (cts.)		35.7	_	35 • 4
Weight per bird sold, lbs.		16.8		15.7
CHICKENS	-	1000	- :	±J•1
No. of farms		44	10	8
Gross ret. per hen	Ś	\$ 5.30	\$ 6.63	\$4.09
No. hens	Ψ	125	129	106
Eggs per hen		155	167	121
Price recid. per doz.eggs sold (cts	5.	35•3	37.2	33.6
No. chicks purchased -straight run		154	155	130
-sexed		65	65	66
		٥٦		

^{*} One farmer having both a dual-purpose herd and a beef herd used a beef bull and included all the young stock in the beef herd

*** Two lambs under 6 months of age are considered as one head.

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

Table 18. Summary of Farm Earnings and Inventories by Years
1940 1941 1942 1943 194

Items	1940	1941	1942	1943	1944	1945	
No. of farms	98	96	.79	72	67	54	
Monthly charge for unpd. fam. lab.	\$40	\$45	\$55	\$70	\$30	\$85	77.
Monthly charge for board to hired lab.	18	20	25	25	25	25	
FARM EXPENSES	100	10000					
Dairy and dual-purpose cattle bought	\$ 71	\$ 58	\$ 89	\$ 96	\$ 131	\$ 124	
Beef cattle bought (incl. feeders)	9	18	83	62	26	67	
Hogs bought	10	24	54	26	38	39 14	
Sheep bought (including feeders)	31 24	22	36	42	38		
Poultry bought (including turkeys)		χŕΟ	66	112	160	148	
Horses bought	20	19	17	5	15	6	
Miscellaneous livestock expense	13	20	31	49	57	57	
Miscellaneous crop expenses	149	1.50	265	346	396	388	
Feed bought	138	187	380	684	450		
Custom work hired	74	63	gl	133 148	133	125	
Power mach. (farm share) (new)	226	222	124		265		
Power mach. (farm share) (upkeep)	330	357	462		659		۵
Crop and general mach. (new)	195	261	165		341	415	
Crop and general mach. (upkeep)	50	, 57	33	111	120	126	
Livestock equipment (new)	29	51	60	53	64	83	
Livestock equipment (upkeep)	5	g	17	27	25	26	
Buildings and fencing (new)	154	167	208	178	107	579	
Buildings and fencing (upkeep)	. 79	52	8,4	, 99	149	136	
Hired labor	211	236	324	465	541	473	
Taxes	193	196	200		217	249	
General farm and insurance	29	44	56	54	61	78	
(1) Total farm purchases	\$2,040	\$2,282	\$2,890	\$3,618	\$4,024	\$4,765	
(2) Decrease in farm capital	-	-	1 B	- \ \	a 8 		
(3) Board furnished hired labor	103	107	134	1,474	124	98	
(4) Interest on farm capital	691	710	756	788	826	912	
(5) Unpaid family labor	295	338	402	The state of the s	419	417	
(6) Tot. farm exp. (Sum of (1) to (5)	\$3,129	\$3,437	\$4,182	\$4,977	\$5,393	\$6,192	

** Interpope and the your state of the contract of the contrac

Table 18 Summary of Farm Earnings and Inventories by Year (Cont'd).

tems	1940	1941	1942	1543	1945	1946
ARM RECEIPTS						
Dairy and dual-purpose cattle	\$ 325	\$ 409	\$ 576	\$ 612	\$ 653	\$ 720
Dairy products	610	E64	1,054	1,197	1,201	1,646
Beef cattle (including feeders)	77	118	257	300	274	237
Hogs	166	333	750	987	647	696
Sheep and wool	222	242	327	340	332	392
Poultry (including turkeys)	173	245	451	573	660	802
Eggs	65	130	263	364	402	7770
Horses	30	37	21	22	18	22
Potatoes	120	174	272	416	484	135
Small grain	560	625	1,150	1,194	1,645	1,490
Other crops	123	185	161	285	449	292
Machinery and equipment sold	115	115	56	138	1 _{j†} 5	213
Income from labor off the farm	116	125	99	105	131	283
Agricultural Adjustment payments	252	5,48	227	205	214	285
Miscellaneous	133	36	96	86	59	
(7) Total farm sales	\$3,088	\$3,936	\$5,760	\$6,824	\$7,311	\$7,713
(8) Increase in farm capital	364	991	809	125	419	1,034
(9) Family living from farm	366	421	502	590	594	619
(10) Total farm receipts (7)+(8)+(9)	\$3,818	\$5,348	\$7,071	\$7,539	\$6,324	\$9,366
(6) Total farm expenses	3,129	3,437	4,182	4,977	5.393	6,192
(11) Oper. labor earnings (10) - (6)	689	1,911	2,559	2,562	2,931	3,174
NVENTORIES	-					
Productive livestock (total	1550	185/1	2418	2686	2578	2726
Dairy or dual purpose cattle	997	1138	1350	1392	1336	1497
Beef cattle	175	205	375	443	453	416
Hogs	65	143	268	332	253	298
Sheep	270	278	336	395	408	379
Poultry	43	. 60	89	124	128	136
Horses	327	. 294	303	234	240	220
Crop, seed, and feed	923	1120	1393	1618	1904	2272
Machinery and equip. (total	2183	23 ¹ +5	2522	2545	2699	3180
Power mach. (farm share)	964	1052	1098	1060	1125	1296
Crop and general mach.	1046	1098	1188	1194	1246	1494
Livestock equipment	178	195	236	292	328	390
Bldgs., fences, etc.				3712 4018	3816 5274	4182 5656
Total farm capital	13821	14209	1174	710	1-1-	7020

Table 19. Surmary of Miscellaneous Items by Years

Items	1940	1941	1942	1943	1944	1945	
MEASURES OF FARM ORGANIZATION AND MANAGEMEN		YEAR	TTEE T	The Pt	er van		•
% tillable land in high return crops	34.9	37.6	35.3	41.5	43.7	39.2	
Prod. livestock units per 100 A.	9.6	10.5	12.0	12.7	11.6	11.3	
Work units	456	481	475	506	511	521	
Work units per worker	219	238	236	247	256	274	
Expenses per work unit	\$1.86	\$1.83	\$2.26	\$2.64	\$2.81	\$3.14	
GROSS RETURNS PER:	MI.						
Dairy cow	\$68.90	\$95.93	\$114.92	\$128.95	\$133.53	\$170.29	
Dual-purpose cow	61.95	50.71	105.72	110.33	112.73	139.51	
Animal unit in beef-breeding herd	58.04	57.03	80.20	51.91	52.94	55.96	
Head of sheep in farm flock	5.93	7.05	11.02	7.11	6.88	8.47	
100 lbs. hogs produced	5.81	10.70	14.38	12,59	13.34	14.17	
Hen	1.86	2.88	3.85	4.91	4.60	5.30	
100 lbs. turkeys produced	15.34	20.84	31.77	30.08	30.27	30.78	
PRICE RECEIVED PER:							
Lb. B.F. sold to creameries (cts.)	30.4	37.4	45.3	53.8	58.9		
100 lbs. lambs sold	\$8.12	\$9.58	\$13.31	\$11.54	\$11.84	\$13.48	
100 lbs. hogs sold	\$5.32	\$9.67	\$13.52			\$14.15	
Lb. wool sold (cts.)	28.9	40.0	41.3	43.7	45.5	46.2	
Doz. eggs sold (cts.)	13.9	21.9	28.1	33.2		35.3	
Lb. turkeys sold (cts.)	15.6	21.5	31.7	33.5	34.9	35.7	
MISC. LIVESTOCK INFORMATION				rų J			
No. of work horses	4.0	3.6	3 .7	3.6	3.4	3•4	
No. of colts	•7	3.	•7	•7	• 11	•4	
No. of dairy or dual-purpose cows	11.2	11.9	11.9	12.1	11.7	12.6	
Head other dairy or dual-pur. cattle	13.2	14,4	15.g	16.1	16.2	15.4	
Head in beef-breeding herd	3.1	3. 6	4.3	6.1	5.8	1+ 2+	
Litters of pigs	2.3	2.6	14.0	5.8	2.9	3.6	
Pounds of hogs produced	3,586	4,271	6,654	7,800	4,757	5,370	
No. of hens	60	6,6	9્ઉ	(101	109	107	
Head of sheep	3€.5	37 • ¹⁴	35.4	43.7	47.6	7+6•0	
Lbs. of butterfat per dairy cow	220	235	230	213	220	23 ¹ ÷	
Lbs. of B.F. per dual-purpose cow	196	202		192	180		
No. of pigs weamed per litter	7.2	7.3		6.8			
% lamb crop	103	108		93			
Pounds wool per sheep sheared	7.8	7.5	7.9	7.7			
Eggs per hen	121	121	129	1/†/†	156	155	

Table 19 Summary of Miscellaneous Items by Years (cont'd)

Table 19 Sunnary of Miscellaneous It	1940	1941	1942	1943	1944	1945	
DISTRIBUTION OF ACRES PER FARM							
Wheat	29.4	27.6	19.9	23.1	35.1	28.2	
Flax	25.9	19.9	24.9	19.5	13.6	25.1	
Barley	29.2	23.7	23.5	26.2	19.5	18.0	
Oats	36.0	37.7	36.1	40.1	52.0	54.1	
Misc. small grains	9.5	9.6	5.7	5.9	5.3	3.0	
Total small grains	133.0	118.5	110.1	115.1	128.5	131.4	
Potatoes	5 . g	5.0	3.9	4.7	5.7	4.4	
Other cult. crops	19.4	18.9	22.4	22.0	21.9	22.2	
Total cult. crops	25.2	23.9	26.3	26.7	27.6	26.6	
Alfalfa hay or seed	18 . 3	24.3	29.4	33.0	30.7	31.5	
Sweet clov. hay or seed	21.9	31.5	11.2	10.4	9.9	12.0	
Misc. hay and seed crops	21.2	20.7	19.6	24.0	30 . €	31.9	
Total hay and seed crops	61.4	76.5	60.2	67.4		75.4	
Alf. or alf. mix. pasture	5.0	5.2	12.0	20.0	15.0	23.3	
Sweet clover pasture	16.7	13 . 3	20.0	8.3		g . 2	127
Other tillable pasture	17.1	13.4	11.9	13.4	18.2	13.0	į.
Total tillable pasture	35.5	35.4	43.9	41.7	7:71 • 74	44.5	
Tillable land not cropped	29.0	30.6	40.2	35.2	22.1	42.5	
Total tillable land	287°14	284.9	280.7	257.1	294.0	320.5	
Non-tillable land in wild hay	14.2	12.6	7.9	12.9	11.5	5.7	
Non-tillable pasture	36.2	37.9	37.3	40.2	44°3	36.4	
Timber, roads, wasto, farmstoad	59•3	54.8	69.9	51.6		59.4	
Total acres per farm	397.1	390.2	395 . 8	351.8	402.9	422.0	
CROP YIELDS PER ACRE							
Theat, bu. (hard spring)	15.0	15•4	22.9	17.3	19.5	16.9	
Flax, bu.	7.3	4.5	6.0	4.5	6.7	7.5	
Barley, bu.	20.0	. 23.8	32.9	16.9	25.8	25.7.	
Oats, bu.	26.7	32.2	46 . g	30 . 6	43.0	35∙8	
Potatoes, bu.	103.4	58.7	66.9	76.3	71.4	79.5	
Corn, grain, bu.	28.3	34.5	2 ⁾ 4•7	32•4	35.5	22°7	
Corn silage, tons	6.1	5.2	6.3	5.1	6.4	5.0	
Alfalfa hay, tons	1.2	1.7	1,8	1.8	1.5	1.7	
Sweet clover hay, tens	•7	1.0	J°jt		1.1	1.4	
Sweet clever seed, lbs.	285	115	258	211	228	177	
Wild hay, tons	•8	•5	.6	•6	•6	•6	