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1962 ANNUAL REPORT

CENTRAL MINNESOTA FARM MANAGEMENT SERVICE FOR T. V. A. TEST DEMONSTRATION COOPERATORS

Department of Agricultural Economics and Agricultural Extension Service UNIVERSITY OF MINNESOTA

Report No. 267
Department of Agricultural Economics
Institute of Agriculture
St. Paul 1, Minnesota
April, 1963

1962 ANNUAL REPORT, T.V.A. TEST DEMONSTRATION FARMS Prepared by T. R. Nodland, M. F. Miller and P. R. Hasbargen (1)

INDEX	Page
Introduction	1
Summary of Farm Inventories	2
Summary of Farm Earnings (Cash Statement)	5
Summary of Farm Earnings (Enterprise Statement)	8
Returns to Capital and Family Labor	11
Net Worth Statement	12
Household and Personal Expenses	14
Family Living from the Farm	16
Explanation of "Work Units"	17
Measures of Farm Organization and Management Efficiency	18
Distribution of Acres in Farm	20
Crop Yields per Acre	22
Power and Machinery Expenses per Crop Acre	23
Feed Cost and Returns from Dairy Cattle	24
Feed Costs and Returns from Market Hogs	28
Feed Costs and Returns from Feeder Pigs	29
Feed Costs and Returns from Sheep	30
Increase in Yields Resulting from Applications of Fertilizer	31
Comparison of Results for Identical Farms for Year 1958-1962	32

Introduction

The Agricultural Extension Service and the Department of Agricultural Economics of the University of Minnesota, the Tennessee Valley Authority, and the County Extension Services of five counties in central Minnesota are cooperating in a fertilizer demonstration project and in a farm management service. The service was initiated in 1958. It is available to a selected group of farmers who are willing to demonstrate the value of commercial fertilizers and who have agreed to keep farm business records. The authors wish to express their appreciation to the farmers and the Agricultural Extension Agents for their fine cooperation in making this report possible.

The purpose of this report is (1) to show some of the factors affecting farm income, and (2) to obtain data in regard to farm income and expenses for central Minnesota farms.

The project is under the general supervision of Roland Abraham, Roger Harris, and Paul Hasbargen of the Agricultural Extension Service. Analysis of the farm records and preparation of this report are handled by T. R. Nodland, Department of Agricultural Economics, and Paul Hasbargen, Agricultural Extension Service. The following tabulation shows by counties, the county agricultural agents and the number of farm records submitted.

County	County Agricultural Agents	No. of Records
Crow Wing	Glenn Smith and James Rabehl	2
East Otter Tail	Gerald Ness and Sherman Mandt	5
Hubbard	Wm. Dorsey and John Eix	5
Todd	Richard Brand and Loyal Hyatt	3
Wadena	Miles Rowe	5

(1) The authors are indebted to Janet Otis for her assistance in the preparation of this report

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Ξ
1962
Inventories,
of Farm
Summary of Farm
Table 1.
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		T SINTE T.	Danishan	10 7 15 6	CATTO ATT IT	1 400	/ -				
	Ave. of					Farm Number	mber				
Items	20 faras	25	19	27	26	20	21	18	တ	2	2
Size of farms (acres)	344	440	279	160	900	270	365	547	280	240	400
Size of business											
(work units)*	409	793	357	427	674	487	202	423	401	358	434
					Beg	Beginning of	Year				
Dairy cattle	\$6585	\$13936	\$6345	\$7690	\$15122	\$10325	ļ	\$8755	\$6085	\$2840	\$3300
Other livestock	1600	1	1513	1780	1	7.1	6326	ł	1173	645	324
Horses	86	1	:	ł	ļ	1	i	1	ł	1	į
Crop, seed and feed	2280	2668	3873	2000	3050	1977	1789	2247	3028	1516	066
Auto & truck (share)	820	1131	1976	ł	1066	200	180	800	424	405	1345
Tractors	1341	2370	1092	123	1740	2379	345	1216	1057	2640	375
Crop & general mach.	3006	3531	10865	3579	4924	2720	2093	2587	984	1755	1272
Livestock equip.	1451	3543	2393	140	2438	2070	120	2673	365	ł	1369
Land	9495	20000	12000	16000	74000	8812	0099	4400	15915	9840	4100
Buildings, fences, etc.	5372	8088	8453	4845	6889	2800	2233	2000	5598	4057	1272
Total farm capital	32036	55277	48510	36157	42629	31654	21686	24678	34629	23698	14347
				;							
				*. *	End	of Year					
Dafry cattle	\$6357	\$15145	\$5715	\$8565	\$14700	\$11000	-	\$9005	\$5910	\$2870	\$2700
Other livestock	1646	1361	1280	1320	Ì	1	9125	ł	829	665	45
Horses	206	1	ł	i i	ŀ	1	i	ł	!	1	1
Crop, seed and feed	3025	4527	4255	2800	3450	2195	1544	2871	4756	2407	1808
Auto & truck (share)	196	957	1728	ţ	2120	250	1221	640	2080	202	1156
Tractors	1169	2267	920	105	1479	1908	230	928	838	2310	262
Crop & general mach.	3570	6046	13477	4012	4760	4300	2961	3012	748	1413	1249
Livestock equip.	1503	3535	2330	691	2010	1844	257	3114	1236	!	1226
Land	9447	20000	12000	16000	7400	8812	0099	4400	14715	9840	4100
Buildings, fences, etc.	5358	8414	8771	5372	6183	2650	2817	3545	5315	4197	1193
		,		!	•	1	1	i 1	200	7000	0000
arm capital	e	62252	50476	38865	42102	32959	24755	2/245	36427	23304	13/38
(1) American (1) the Mark Constitution Constitution	Act her lobor	OF CARCO.									

(1) Arranged in descending order by labor earnings * See page 17 for an explanation of work units

					Farm Number	mber					
Items	1	4	12	16	24	8	23	13	22	17	
Size of farms (acres)	440	259	320	280	360	240	549	290	235	300	
Size of business					•						
(work units)	455	425	386	340	461	233	410	315	312	317	
					Beginni	Beginning of year	Ł				
Dairy cattle	\$8420	\$7420	\$5990	\$4515	\$10315	\$2850	\$5780	⇔ ¦	\$4092	\$7910	
Other livestock	1962	İ	770	805	;	4947	1	7593	2100	ł	
Horses	300	1	1	i	1	}	;	1425	ł	;	
Crop, seed and feed	3689	2986	4205	1005	2592	751	2258	2112	2190	67.7	
Auto & truck (share)	2201	1405	1792	ł	50	ł	200	567	926	1398	
Tractors	2120	116	3146	169	1109	343	1935	2166	900	1471	
Crop & general mach.	3656	1570	4049	939	4141	1027	4137	3631	1477	1178	
Livestock equip. & sup.	2514	2590	246	1439	357	101	503	2246	1660	2259	
Land	5978	7084	16000	8000	5800	5450	9700	9500	7330	10000	
Buildings, fences, etc.	10058	6457	7550	3186	3330	2666	10030	3534	4424	1966	
Total farm capital	\$40898	\$29628	\$43748	\$20058	\$27694	\$18135	\$34543	\$32774	\$25129	\$34855	
					End of vear	vear					
Dairy cattle	\$9365	\$6745	\$5300	\$4910	\$9140	\$1575	\$5575	! \$ 9	\$3700	\$5225	
Other livestock	75	168	4130	802	1	4353		7441	1325		
Horses	1700	ļ	ł	ł	ł	ł	ł	2425	ł	ļ	
Crop, seed and feed	3328	3346	5525	1750	3244	1693	3466	4103	2287	1140	
Auto & truck (share)	1660	2489	1536	ł	1	900	100	700	681	1207	
Tractors	1625	927	2780	85	694	261	1610	1853	1083	1190	
Crop & general mach.	3605	1298	5060	812	5573	758	5671	4322	1210	1117	
Livestock equip. & sup.	2534	2493	194	1311	274	74	544	2746	1544	2102	
Land	5978	7084	16000	8000	5800	5450	9940	9500	7330	10000	
Buildings, fences, etc.	9455	6213	7509	3006	3039	2455	9360	3183	5142	9333	
Total farm capital	\$39325	\$30763	\$48034	\$20676	\$27764	\$17219	\$36266	\$36273	\$24302	\$31314	

Capital Investment

The average value of capital used per farm is shown in table 1. Capital investment per farm varied from \$58,765 to \$13,863. These data represent "book" values and not necessarily current market values. The common practice for both income tax accounting and farm business analysis is to depreciate capital items each year by an amount equal to their decrease in value as a result of use and obsolecence. Market prices, particularly real estate, have been increasing during the last several years. As a result, the value of farm real estate as shown in table 1 tends to be an understatement of its present market value. This is especially true in cases of farms purchased several years ago.

Farm Earnings

Farm income in this area of the state is relatively low. The 20 farmers included in this report have average farm sales of \$13,497 and farm purchases of \$10,285, or a net cash income of \$3,212 per farm (table 2). Farm purchases amounted to 76 percent of total farm sales leaving 24 percent to pay family living expenses, interest on indebt-edness, and for savings.

Labor earnings, the measure of financial success used in this report, have been computed on a "full owner" basis. Sales and purchases for the whole farm are shown, whether it was operated by an owner or a renter. Labor earnings are the return to the operator for his labor and management after all expenses have been paid, including wages for members of the family other than the operator, and a 5 per cent charge on the average value of capital used in the farm business. This places all farms on a uniform basis for comparison.

Two methods of calculating labor earnings are used. Table 2 shows the earnings statement on a cash basis; table 3 shows the earnings on an enterprise or accrual basis. The main difference in the two statements is in the method of handling the net increase or decrease in farm capital. In the cash statement, the net increase or decrease in farm capital is entered as one item (item 14 or 43, table 2). In the enterprise statement, as shown in table 3, the net change in the inventory has been included in each item in order to compute "total returns and net increase" or "total expenses and net decreases" by enterprises. Thus the average returns and net decreases of \$7,087 from dairy cows includes the value of dairy products sold, fed, and used in the home — with adjustments for changes in the value of the herd. The following is an illustration using the data for a dairy farm:

Value of dairy products sold	\$6180	
Used in the home	225	
Fed to livestock	28	
Total value of dairy products produced		\$6433
Value of cows on end of year inventory	\$4000	
Sales of cows	726	
Butchered for home use	0	
Total	\$4726	
Value of cows on beginning of year inventory	\$4 800	
Purchases		
Value of heifers transferred to cow herd Total	200 \$5000	
Net change in value of cows	40000	-274
Returns and net increases from milk cows		\$6159

Table 2. Summary of Farm Earnings (Cash Statement) 1962 (1)

	Ave. of		Julemen	Farm Numb	er	· · · · · · · · · · · · · · · · · · ·
Items	20 farms	25	19	27	26	20
Farm Receipts					" " 	····
1. Dairy cattle	\$ 2,065	\$ 2,607	\$ 1,242	\$ 3,010	\$ 4,082	\$ 3,281
2. Dairy products	7,032	17,320	8,868	7,306	11,604	13,698
3. Beef cattle	57	-	_	-	•	-
4. Hogs	2,060	1,518	6,943	3,452	-	-
5. Sheep	444	· -	-	_	-	-
6. Horses	-	-		-	-	-
7. Poultry	6	-	-	-	-	_
8. Eggs 9. Crops	8	7. 700	1 044			
10. Mach. & equipment sold	<i>7</i> 61 251	1,733 339	1,246 163	347	2,325	170
11. Income from work off farm	318	146		67	316	112
12. Miscellaneous	495	926	<i>57</i> 312	62	270	320
13. Total farm sales	\$13,497			106	311	596
14. Income in farm capital		\$24,589	\$18,831	\$14,350	\$18,908	\$18,007
15. Family living from farm	1,212 285	6,974 526	1,967 273	2,707 527	273	1,304
16. Total farm receipts	\$14,994		\$21,071			442
Farm Expenses	\$1 4, 774	\$32,089	\$21,071	\$17,584	\$19,181	\$19,753
	\$ 113	•	¢ 547		•	
17. Dairy cattle bought 18. Beef cattle bought	\$ 113 294	\$ -	\$ 547	\$ -	\$ -	\$ -
19. Hogs bought	153	885	50	1,386	-	_
20. Sheep bought	2	-	, 30	1,000	_	_
21. Horses bought	81	-	_	-	_	_
22. Poultry bought	2	-	-	_	-	_
23. Misc. livestock expense	386	663	286	283	384	611
24. Feed	2,418	6,081	1,380	3,1 <i>77</i>	3,168	4,734
25. Fertilizers	395	604	898	501	321	5 65
26. Other crop expenses	442	712	476	-	381	477
27. Custom work hired	<i>5</i> 98	1,088	608	, 	972	916
28. Gas, oil, grease (farm share)	712	1,491	856	517	1,172	97 8
29. Rep. tract., trucks, autos						
(farm share)	530	711	205	201	737	586
30. Repair farm real estate	131	199	107	116	123	329
31. Rep. crop & gen. machinery	281	806	233	168	501	527
32. Rep. livestock equipment 33. Wages of hired labor	80 286	274 242	6 800	10 66	123	121
34. Electricity expense (farm shar		528	151	522	1,005 362	380
35. Real estate & personal propert	e, 200 h,	320	151	JLL	302	370
taxes	533	837	627	527	772	354
36. Tel. & gen. farm expense	199	295	101	216	242	337
37. Total cash oper. expense	\$ 7,920	\$15,416	\$ 7,331	\$ 7,690	\$10,263	\$11,285
38. Mech. power bot. (farm share)	482	315	4 .,	-	1,650	4,200
39. Crop & gen. mach. bought	1,255	3,137	4,310	1,130	704	2,480
40. Livestock equip. bought	246	518	180	621	704	75
41. New real estate improvement	382	800	977	852	-	
42. Total farm purchases	\$10,285	\$20,186	\$12,798	\$10,293	\$12,617	\$13,840
43. Decrease in farm capital		,·			527	4.5/5.0
44. Interest on farm capital	1,632	2,938	2,475	1,875	2,118	1,615
45. Unpaid family labor	574	900	_	750	,	600
46. Board fur. hired labor	57	96		_	240	40
47. Total farm expenses	\$12,548	\$24,120	\$15,273	\$12,918	\$15,502	\$16,095
48. Labor earnings	\$ 2,446	\$ 7,969	\$ 5,798	\$ 4,666	\$ 3,679	\$ 3,658
_	<u>-</u>	-	•		•	

⁽¹⁾ Arranged in descending order by labor earnings.

-6 Table 2. Summary of Farm Earnings (Cash Statement) 1962 (Continued)

							arm i	101						
Item			21		18		3		2		5	1		4
	Farm Receipts													
1.	Dairy cattle	\$	-	\$	3,376	\$	1,420	\$	1,530	\$	1,510	\$ 2,437	\$	2,567
2.	Dairy products		-		8,985		6,944	•	6,275		3,205	9,276		8,451
3.	Beef cattle		71		-		· -		· -		•••	· •		'-
	Hogs		6,182		-		3,206		2,248		330	3,072		262
	Sheep		2,811		-		` -		-		-	· -		_
	Horses		_		-		-		-		-	-		-
	Poultry		-		-		20		_		-	-		_
8.	Eggs		-		_		165		-		_	-		_
	Crops		1,527		114		548		133		360	1,488		302
10.	Mach. & equip. sold		157		70		1,330		248		172	226		193
	Income from work off farm		-		693		`-		228		2,202	450		119
12.	Miscellaneous		2,347		941		37		72		233	69		15
13.	Total farm sales	\$	13,095	\$	14, 179	\$	13.670	\$	10.734	\$	8.012	\$17,018	\$	1.909
	Increase in farm capital	•	3,068	•	2,866	•	1,798	•	205	.*	_	_	•	1,134
	Family living from farm		80		90		409		249		327	321		141
	Total farm receipts	Ŧ		ŧ		7		ŧ		₹			· ₹1	
10.		4	10,243	Þ	17,133	Þ	10,0//	Þ	11,100	Þ	0,337	\$17,339	Þ	104
	Farm Expenses	_								_				
	Dairy cattle bought	\$	-	\$	942	\$		\$	-	\$	-	\$ 340	\$	-
	Beef cattle bought		20		-		_		-		_	•		-
19.	Hogs bought		143		_		60		12		12	- 1		93
20.	Sheep bought		-		_		-		_		-	35		_
21.	Horses bought		_		-		-		-		_	1,055		-
22.	Poultry bought		-		-		-		***		_	-		-
23.	Misc. livestock expense		228		407		326		281		142	636		460
24.	Feed		3,453		2,586		1,862		1,887		254	2,327		512
25.	Fertilizers		644		405		429		310		141	670		356
	Other crop expenses		289		498		900		458		293	632		439
	Custom work hired		684		726		336		719		415	880		480
		١.	704		568		610		569		556	591		787
20.	Gas, oil, grease(farm share	,	/04		300		010		307		220	37 I		/6/
ZY.	Rep. tract., trucks, autos		010		40.6		0.40		070		07.4			
	(farm share)		312		486		863		270		364	321		1,073
	Repair farm real estate		100		55		261		51		60	82		21
31.	Rep. crop & gen. machinery	1	153		289		123		164		263	232		153
	Rep. livestock equipment		36		51		63		<i>7</i> 8		6	173		-
	Wages of hired labor		_		192		30		38		-	195		909
34.	Electricity expense(farm sha	re)	142		315		277		209		117	290		309
35.	Real estate & personal prope	erty	у											
	taxes	•	389		513		445		744		390	492		678
36.	Tel. & gen. farm expense		225		239		472		136		107	119		151
	Total cash oper. expense	\$		\$		\$		\$		\$		\$ 9,070		
_	Mech. power bot. (farm shar			*	_,	*	2,000	*	-,	*	_,		7	2,850
	Crop & gen. mach. bought	e)	1,345		897		2,000		_		367	1,026		530
<u>4</u> 0	Livestock equip. bought		200		957		1,200		_		307	286		J3U ~
<u> </u>	New real estate improvement		860		1,690		1,200		427		_	95		_
				₽		# -	0 257	*		#	3 407			0.001
	Total farm purchases	Þ	וו, וא/	Þ	11,810	Þ.	U, 25/	Þ	0,352	Þ		\$10,477		7,801
	Decrease in farm capital		-				_		_		608	1,573		
44.	Interest on farm capital		1,161		1,306		1,777		1,190		702	2,006		1,510
	Unpaid family labor		300		450		350		405		900	1,200		-
46.	Board fur, hired labor	_		_:	40	_			-	_	-			
47.	Total farm expenses	\$1	2,648	\$	13,612	\$1	2,384	\$	7,947	\$	5,697	\$15,256	\$1	1,311
	Labor earnings											\$ 2,083		
		•	-,	*	-,	7	3, ., 0	~	-/	*	-,=	,000	*	.,5.0

Table 2. Summary of Farm Earnings (Cash Statement) 1962 (Continued)

	TODIE Z.			Farm Num	ber	<u> </u>		
***************************************	12	16	24	8	23	13	22	17
F	arm Receipt							
1.	\$ 1,803	\$ 887	\$ 3,422	\$ 1,696	\$ 1,379	\$ -	\$ 2,119	\$ 2,927
2.	5,205	4,519	8,709	1,673	6,108	•	4,021	8,467
3.	-	_	_	-	-	1,077	-	-
4.	3,610	_	_	_	-	6,743	3,642	-
5.	_	1,242	-	4,513	_	314	_	-
6.		_	_		_	-	_	-
7.	_	_	-	-	-	93	_	_
8.	-		_	-	-	_	-	_
9.	425	•••	24	617	1,637	2,407		-
10.	-	127	337	65	171	842	68	16
11.	-	-	194	386	325	902	-	***
12.	134	253	218	366	195	2,028	120	619
13.	\$11,177	\$ 7,028	\$12,904	\$ 9,316	\$ 9,815	\$14,406	\$ 9,970	\$12,029
14.	4,287	618	70		1,723	3,499	_	-
15.	399	101	452	226	316	169	204	173
16.	\$15,863	\$ 7,747	\$13,426	\$ 9,542	\$11,854	\$18,074	\$10,174	\$12,202
F	arm Expens		-	•	· .	·	•	-
17.	\$ -	53	\$ -	\$ -	\$ 20	\$ -	\$ 420	\$ -
18.	2,977	* <u>-</u>	¥ .	* ~	4 2 0	2,884	· · · · · · · · · · · · · · · · · · ·	*
19.	222	-	_	_		130	65	
20.		_	-	ma .	-	-	•	-
21.	_	_	_	-	**	557	-	
22.	11	-	-	-	•	25	-	-
23.	274	256	597	267	167	424	548	475
24.	1,397	1,933	1,102	3,094	566	3,109	2,372	3,371
25.	439	401	333	112	427	209	344	192
26. 27.	349 2 76	421 583	496 201	279 591	636 610	416 45	547 852	148 989
28.	595	730	869	309	540	946	426	433
29.	695	224	1,269	219	638	743	350	341
30.	34	98	223	144	94	134	201	183
31.	391	57	376	151	586	173	267	-
32.	115	5	141	37	128	234	-	3 300
33.	350	58 21 <i>7</i>	238 231	36 222	230	412	8 320	1,180 176
34. 35.	248 772	383	550	233 383	230 666	485	393	267
36.	210	92	167	193	207	222	140	113
37.	\$ 9,355	\$ 5,057	\$ 6,793	\$ 6,048	\$ 5,515	\$11,148	\$ 7,253	\$ 7,868
38.	,	+ -1	+ -Z11.0	614	,	650	297	•
39.	1,735		2,649	-	2,385	2,000		395
40.	- 77 00	-	_,047	•	110	717	46	=
41.	314	. •	***	34	240	-	1,355	-
42.	\$11,404	\$ 5,057	\$ 9,442	\$ 6,698	\$ 8,250	\$14,515	\$ 8,951	\$ 8,263
43.	•	••		916	-	-	827	3,540
44.	2,295	1,018	1,386	884	1,770	1,726	1,236	1,655
45.	300	-	1,800	375	1,200	1,650	**	300
46.	160	64	60				440	_
47.	\$14,159	\$ 6,139	\$12,688	\$ 8,873	\$11,220	\$17,892	\$11,454	\$13,758
48.	\$ 1,704	\$ 1,608	\$ 738	\$ 669	\$ 634	\$ 183	-\$ 1,280	- \$ 1,556

	Table 3.	Summary	- 1	Earnings	(Enterpris	of Farm Earnings (Enterprise Statement)	int) 1962	(1)				1
	Ave. of					Farm	Ž					1
Items	20 farms	25	61	27	79	20	21	18	3	2	2	. !
RETURNS AND NET INCREASES												į
Dairy cows	\$ 7087 2035	\$18018	\$ 8702	\$ 7555	\$12011	\$12856	1	\$ 8923 \$053	\$ 7017	\$ 6364	\$ 3492	
Other dairy cattle	627 63	4100	620	4	2705 C 1	YOIC TOIC	4 KEA	5 1	707	2	9//	
beer carrie	70	1 6	1 6	1 ()			!	1 6	1 200	1 6	
Hogs	745 707	2031	04/9	1/83	a 1	- 1 !	755 255 255 255 255 255 255 255 255 255	g 1	ZX3Z	9757	3	
Sheep	\ <u>`</u>	ŧ	1	•	ı	•	2007	1	ן כל	1	•	
Chickens	2	•			1	•	1		907	•	•	
Total livestock	\$11347	24214	16130	13531	15633	18024	9779	11937	11860	10361	4550	
Value of feed fed	6542	19241	6819	7094	5769	8389	6605	4702	7116	4217	3190	
Lystk, return over feed	\$ 4805	4805 4973	9311	6438	9864	9635	3174	7235	4744	6144	1361	
Crops, seed & feed	4697	4697 527 4973	5428	4355	4527	2831	3500	1772	5927	2563	3612	
Income from labor off farm	216	82	1	62	113	8	3	158	I	207	2000	
Miscellaneous	448	926	312	8	31	286	2347	941	37	72	233	
Total returns & net increases	\$10167	20834	15052	10960	14816	13142	9022	10104	10707	868	7205	
EXPENSES AND NET DECREASES	•											
Truck (farm share)	\$ 246	\$ 369	\$ 113	\$ 256	\$ 198	\$ 188	1	\$ 597	\$ 332	1 6/ 3	\$ 83	
Auto (farm share)	88		350	23	1014	316	384	•	563	503	335	
Tractors & horses	872	1510	8 4 8	333	1139	1564	808 808	376	1007	729	532	•
Elec. motors exp. (farm share)	789	610	158	522	362	395	142	315	277	209	117	
Hired power	325	8	350	•	202	570	305	4	102	33%	249	
Total power	\$ 2121	\$ 3480	\$ 1818	\$ 1183	\$ 3220	\$ 3033	\$ 1640	\$ 1729	\$ 2281	\$ 1776	\$ 1315	
Crop & gen, mach.	920	1506	1874	872	1316	1267	780	675	388	604	553	
Livestock equipment	274	<u>&</u>	249	8	55	422	8:	8 8	333	æ	149	
Buildings, fences, etc.	80	683	766	442	876	479	377	5 9	543	88	139	
Wisc. livestock expense	386	663	286 286 286	283	85°	1977	227	4 7 7 7	326 201	287 281	142	
	/#1:	† 65 5	200	2 6	3 8	3 :	77.0	2 6	7 6	004	3 6	
Kedi estate taxes	χ Σ	200	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	322	22	8	4/7	376	4,6	200	, çç	
Personal property tax	165	228	240	508	239	96	<u> </u>	84	8	818	25	
Insurance	<u>.</u>	162	35	163	<u>8</u>	130	8	<u> </u>	249	>	81	
General farm expense	98	132	8	53	48	208	14)	123	773	3	23	
Interest on farm capital	1632	2938	2475	1876	2118	1615	1161	130%	1776	130	702	
Total exp. and net decreases	\$ 7721	12865	9254	6294	11137	9484	5427	6581	7214	5745	4563	
Labor earnings	\$ 2446	7969	2/38	4666	3679	3658	3595	3523	3493	3241	2642	
		-										,

(1) Arranged in descending order by labor earnings.

Table 3. Summary of Farm Earnings (Enterprise Statement) 1962 (continued)*

						Farm Number	mber				
Item	1	4	12	16	24	8	23	13	22	17	
RETURNS AND NET INCREASES	EASES										
Dairy cows Other dairy cattle	\$9562 3085	\$8978 1712	\$5185 1375	\$4805 1227	\$8639 2833	\$1795 505	\$6263 1853	<u> </u>	\$3568 1960	\$8001 880	
Beef cattle	ł	ì	383	!	1	1	ł	618	1	ŧ	
Hogs	1180	337	3520	ì	ļ	ł	. 1	4019	2838	ł	
Sheep	40	ł	ł	1242	ł	3939	i	465	ł	1	
ans	!	ł	14	1	i	;	1	103	ŀ	ł	
ctive livestock	13867	11027	10477	7274	11472	6239	8116	5205	8366	8881	
~	5551	5140	4689	2174	4517	2059	3966	- 771	1646	4254	
Crops, seed and feed	5734	5035	5347	3361	5636	2304	4827	7411	3522	1379	
Income from labor off fartin		30	i	;	143	290	93	924	ł	•	
Miscellaneous	69	15	134	253	218	366	195	1099	120	619	
Total returns &											
net increases	11522	10220	10170	5788	10514	5019	9081	8663	5288	6252	
EXPENSES AND NET DECREASES	REASES										
Truck (share)	242	ł	654	262	781	21	ł	23	338	478	
Auto (share)	589	1147	116	53	221	123	418	841	327	63	
Tractor & horses	430	1444	1108	900	1342	340	1045	1135	433	679	
Elec. exp. (share)	293	310	248	217	234	233	230	412	320	175	
Hired power	525	276	175	305	157	328	366	26	400	430	
Total power	2079	3177	2301	1437	2735	1075	2059	2437	1818	1825	
Crop & gen. mach.	1143	915	1149	236	1462	461	1196	583	725	200	
Lystk, equip.	439	86	167	132	224	3 5	197	451	162	157	
Buildings, fences, etc.	780	265	388	278	514	389	764	484	837	811	
Misc. lystk, ex.	636	460	274	257	597	268	167	424	548	475	
Labor	1747	1093	911	347	2140	634	1423	1667	400	1805	
Real estate taxes	354	498	909	25 <u>T</u>	334	267	481	324	259	178	
Per, property taxes	137	180	166	132	217	116	185	191	134	68	
Insurance	87	78	116	17	29	108	116	82	102	42	
Gen. farm expenses	31	73	4 6	75	101	84	6	138	38	72	
Interest on farm capital	2006	1510	2294	1018	1387	884	1770	1726	1236	1654	
Total expenses &											
net decreases	9439	8347	8466	4180	9776	4350	8448	8480	6568	7808	
Labor earnings	2083	1873	1704	1608	738	699	633	183	-1280	-1556	
* Cash receipts and expenses are adjusted for cl	ses are a	djusted 1	or change	hanges in inventory for	ntory for	r each enterprise		and for e	each item	of expense.	

Return to Capital and Family Labor

Return to capital and family labor, as shown in table 4, represents the income available to the family. These data represent the operator's share of the farm income. In cases of rented farms, landlord's expenses and receipts have not been included. Interest on indebtedness paid by the farm operator is included as a farm expense. Thus, return to capital and family labor represents the returns to family labor, management, and the operator's equity in the farm capital used in the business.

Net Worth

Net worth statements for those farmers who kept a complete record of all assets and liabilities are shown in table 5. This is simply a statement of all farm and nonfarm assets that a farmer has, balanced against all notes, accounts, mortgages, etc. that constitute his liabilities. It provides an excellent benchmark which can be used to give a true measure of progress through the year. Without this measure it is difficult for a farm family to judge their financial progress. Debt retirement is often considered to be a farm expense, when in reality it adds to the farmer's net worth by decreasing the amount of his liabilities.

The average net worth of the 17 farmers who kept complete records of assets and liabilities in 1962 was \$29,729. These farmers realized an average increase of \$2,215 in net worth during 1962.

Family Income and Expenses

Total cash family living expenses for 14 farm families that kept records of these expenditures amounted to an average of \$3,279 per family (table 6). In addition, these families used farm produce valued at \$280, or a total of \$3,559 for cash family expenses plus perquisites. Their average total income available for payment of family living amounted to \$5,014. Thus, the farmers who kept records of family living expenses had an average of about \$1,455 to use for debt retirement or business expansion after all living expenses were met.

Table 4. Returns to Capital and Family Labor (Operator's Share) 1962 1

	Awe. of						Farm Number	mber				
Items	20 farms	25	61	27	3	56	20	21	2		277	
Farm Income				:	•						1	
1. Total farm sales	\$13418	\$24589	\$18831	\$14350	ी3669	\$1 8 908	©18007	<u>13095</u>	\$11734	\$17017	31290 4	
2. Increase in capital		7169	1966	2707	1799	1 5	500	200	£ 5	1212	20,	
3. Family living from farm	285	526	273	527	607	273	44.2	8	747	321	757	
4. Total farm receipts	15379	32089	21070	17584	15877	19181	19753	16243	11188	20065	13426	
Farm Expenses												
5. Total farm ourchases	\$11303	\$22199	S12798	706013	£10767	\$13160	\$14471	\$11618	29693	्15931	39775	
6. Decrease in capital		1	1	1	1	526	-	1	1	1	1	
	57	96		ì	•	270	07	l	1		90	
8. Total farm expenses	11360	22295	12798	10904	10761	13926	14511	11618	6962	15931	9502	
	. !		•		1	1	•		,			
family labor	4019	7616	8272	0899	5380	5255	5242	7072	7550	4134	3924	
						Farm	Number					
Items		18	12	5	23	7	16	8	13	17	22	
Farm Income												-
1. Total farm sales		\$14179	ी1176	\$7651	39815	\$11909	\$7028	\$9316	\$13183	\$12028	0266\$	13
2. Increase in capital		7866	7827		1772	1134	618	1	3499	ì	1	L -
3. Family living from farm		8	330	321	316	177	101	526	169	173	707	•
4. Total farm receipts		22135	15862	7978	11853	13184	77.47	9542	16851	12201	10174	
Farm Expenses			•									
5. Total farm purchases		18183	11846	3731	8710	10,89	5287	7989	15303	8328	9766	
		ł		909	ł	. !	!	917	1	3540	826	
7. Board fur. hired labor		07	160	1	1	1	79	1	1	1	077	
8. Total farm expenses		18223	12006	4339	8710	10489	5351	7781	15303	11868	10612	
9. Return to capital and			,	,		,	•	٠,				
femily labor		3912	3856	3639	3143	2695	2396	1761	1548	333	27	
7												

1 Arranged in descending order of return to capital and family labor

Table 5. Net Worth Statement for Those Farmers Who Kept a Record of All Assets and Liabilities (Operator's Share) 1962 1

	Ave. of				F	Farm Number	er			
Items	17 farms	25	19	27	56	20	21	318	3	
Total acres - owned	176	320	279	100	520	270	365	274	280	•
	57	120	1	9	80	1	ł	-	ł	
					ř	January 1				
	C4 ~ 60 %	20000	9	\$ 10 CG		(37 CC)	470LC0	\$10.4%	007769	
Farm Capital	6C787	242211	076570 07.50	7CTOC®	ななりんながったのかったの	\$21024 500	/porz	0/0/T	\$240KY	
Cash on Hand	1750	017	名のうり	ממק	טככ	200	1	OOT	1450	
Stocks, bonds & life insurance	1091	1100	11906	350	1045	ł	!	700	1586	
Household goods & clothing	1644	2400	1960	38 60	3200	2500	1250	1800	775	
Personal share of auto & truck	231	207	586	1	128	255	120	200	901	
Farm dwelling	2237	1	2000	0009	ļ	3000	3260	1	2200	
Other non-farm assets	592	1072	6208	1	80	1066	557	1	130	
Total non-farm assets	8055	5489	34310	0176	5003	7321	5085	2500	6247	
Total assets	36517	994.47	82820	39567	45232	38975	26772	22178	92807	
Real estate mortgages	3862	13859		•	7200	10314	5539	1	10500	
Chattel mortgages	37.29	}	ł	7100	2750	1		5829	1	
Notes payable	196	ì	ł	1	2329	1000	1	1624	1	-
Accounts neveble	676	550	1	į	006	1680	2		ł	12
Total lightlifes	0006	17.0		7100	13179	75667	5551	7753	10500	: -
Net worth	27514	33357	82820	35467	32053	25981	21221	14725	30376	
							ŗ			
	;	:	•	•	⊃ i	December	<u>₹</u>		1	
Farm Capital	\$30286	ँ	350476	32865	33702	32959	324755	\$27545	36428	
Cash on hand	2179		10917	<u>8</u>	90	500	372	100	909	
Stocks, bonds & life insurance	1509		12333	360	1060	1191	!	700	1651	
Household goods & clothing	1722		1960	3800	3200	2500	1250	2100	775	
Personal share of auto	318	191	521	1	099	80	814	160	520	
Farm dwelling	2306		5000	0009	1	3000	3170	2000	2200	
Other non-farm assets	1223	1372	6700	i	1222	1191	455	1	130	
Total non-farm assets	9257	5513	37431	0976	7042	6971	909	7760	5876	
Total assets	39543	54765	87907	42325	77/97	36630	30815	32305	42304	
Real estate mortgages	7311	15637	!	!	7200	11971	8823	8000	10000	
Chattel mortgages	3887	Ì	ł	7650	3650	1	1	6150	1	
Notes payable	1070	1	ł	ł	2229	320	ł	1295	2200	
Accounts payable	276	720	1	1	1269	1200	!	300	1	
Total liabilities	9814	16357	ł	7650	11648	13491	8823	15745	12200	
Net worth	29729	38407	87907	37675	35096	26439	21992	16560	30104	
Change in net worth	+2215	+5050	+5087	+2207	+3043	+758	+771	+1834	-272	
1 Arranged in descending order of labor earnings	or earnings									

Table 5. Net worth Statement for Those Farmers Who Kept a Record of All Assets and Liabilities (Operator's Share) 1962 (continued)

(concrumed)										
					Farm	Number				
Items	2	5	1	7		24	8	13	22	
Total acres - owned	120	320	280	540	082	360	570	235	160	
rented	120	80	160	61	į	ł	ł	80	75	
					Janua	<u>m</u> 1				
Farm Capital	\$1 76 98	\$13947	36598	\$29128	\$2002B	<i>\$27693</i>	\$18135	\$29774	(21979	
	ì	376	39	812	10	15429	609	169	186	
Stocks, bonds & life insurance	20	266 266	2000	. 1521	!	1	2695	3197	826	
ેઇ 	1100	1150	1250	1250	700	1000	1600	1950	1500	
Personal share of auto & truck	101	795	6 00	351	10	50	ì	63	356	
Farm dwelling	0677	1250	6097	2872	1600	2000	360	700	1002	
Other non-farm assets	9		200					541	250	
Total non-farm assets	5771	4111	8683	9089	2020	184.79	5264	6320	4120	
Total assets	23469	18058	45281	35934	22078	46172	23399	36094	56099	
Real estate mortgages	5500	873	17300	7264	5500	;	1	7663	2032	
Chattel mortgages	2200	275	3950	. {	1099	!	2100	3673	564	
Notes payable	!	5925	2500	3058	1	l	ŀ	;	1	-
Accounts payable		162	707	2673	1	•	695	5533	I à	1,
Total liabilities	7700	7235	24154	19866	6659		2795	13869	2596	3 -
Net worth	15769	10823	21127	16068	15479	72197	20604	22224	23503	-
					Decem	December 31				
Farm Capital	17903	13739	39325	30263	20676	27764	17219	33273	21152	
Cash on Hand	•	354	100	366	10	17179	720	3542	314	
Stocks, bonds, & life insurance	20	266	2200	1991	1	ŀ	2874	520	906	
igoods & clothir	1100	1150	1250	1200	700	1000	1600	3100	1500	
Fersonal share of auto & truck	51	716	453	622		1	69 1	363	181	
Carm awering	4275	1250	4432	2831	1500	2000	360	260	929	
Collet non-farm assets Total non-farm assets	25,50	1050	320	7304	10101		5073	1706	276	
	23,09	1987) (A)	32.60	22586	13013	2007	10000	25,750	
Real estate mortgages	2000	823	164.00	7200	7500	37.14	z z c z dz	7507 7500	2000	
Chattel mortgages	1800	1	3200	!	722	ļ	1672	2002	2 1	
Notes payable	Ì	4850	2150	7186		ŀ		950	}	
Accounts payable		t i	779	3017	11	1	009	1394	i ·	
Total liabilities	9800	5673	22529	23124	5274		2272	13058	5200	
Change in net worth	16610	11718	25551	14445	17312	47943	20570	37041	20058	
TO 10# 00# 05#	100	(40)	toth.	C701-	ccor	7///	46	/1/971	-5445	

Table 6. Household and Personal Expenses for Those Farmers Who Kept Accounts of These Expenses, 1962

	Ave. of			Farm Mn	Mmhar				l
Items	7 7	13	27		3	56	2	21	
Number of persons family	5.6	7.0	7.0	7.0	0,4	7.0	0.9	7.0	
Andra equavelence of head	• [ן יצ	\$: 1	ייני	đ v	₹ ¦	6:1	
1970	i •			}	,	•			
Expenses				•	:	:		ź	
Food and meals bought	\$959	\$1172	582	\$15 7 6	\$1195	\$795	\$1039	\$1177	
Operating and supplies	237	165	302	457	336	222	194	383	
Furnishings and equipment	245	!	i	1261	637	310	283	89	
Clothing & clothing materials	392	378	205	745	719	647	38	703	
Personal care & spending	75	!	7	0 20 130	55	106	ଛ	52	
Education & recreation	189	1	15	276	413	%	278	76	
Gifts & special events	707	സ	77	417	93	137	150	106	
Medical & hosp. insurance	259	ł	277	94	274	519	122	717	
Church & welfare	107	!	727	23	195	97	219	69	
Personal share of auto expense	125	81	73	777	24	50¢	80	110	
Upkeep on dwelling	*8	i	l	106	8	1	ł	1	
Personal share of tel. & elec. expense	118	119	72	8	75	143	142	196	
Total cash living expense	2838	1918	1728	5275	7307	3227	2912	2953	
Personal share of new autos	157	325	i	i	200	105	ł	078	
New dwelling	~	!	1	1	!	1	1	ł	
Taxes	106	143	50 2	83	187	1	318	308	
Life insurance	145	62	9	163	290	281	75	103	
Other savings & investments	30	*	*		77	1	1	219	
Total household & personal cash expense	3279	2778	2627	2456	5361	3613	3005	4323	
Family living from the farm	280	169	527	441	708	273	249	80	
Total cash expense and prerequisites	3559	2617	3154	5897	5769	3886	3254	7703	
Receipts									
Return to capital and family labor	\$3556 3759	\$1549	0 899 \$	\$5242	\$5380	\$5255	\$4226	\$4326 3.	
arier personal throme	14.70	12207		77.7		57.	202	37	
Total income	5014	17058	0899	5414	5380	5328	7778	7360	
									ŀ

Arranged by descending order of return to capital and family labor plus personal income * Hired help or others boarded

Table 6. Household and Personal Expenses for Those Farmers Who Kept Accounts of These Expenses, 1962 (continued)

20	2.0	1.8	ļ		\$590	285	17	193	97	55	161	188	29	23	ł	102	1742	70	!	25	168	9	•	2011	226		2237		\$1761	•	100
27	4.0	2.8	;		\$364	40	S.	33	32	22	4	406	i	83	1	101	1389	1	-	82	ł	1	l	1471	101		1572		\$2396	ì	
4	6.0	5.7	ł		\$1113	402	41	919	111	422	183	344	337	108	42	119	3838	360	42	. 1	147	120		4508	141		4649		\$2692	235	
23	5.0	5.0			\$940	41	274	301	30	22	37	279	21	318	i	90	2356	}	!	130	1	i		2486	316		2802		\$3144	1	
77	4.0	ຕ	G.		\$665	310	404	489	78	250	20	129	80	152	158	113	2898	1	§	12	41	1		2951	204		3155	٠	\$.438	3828	
c	4.0	4.2	1		\$1055	131	61	245	73	287	29	92	257	145	21	162	2572	1	1	26	ļ	•		2628	327		2955		\$3639	ł	
7,77	3,0	3.0	:		\$1194	48	73	256	244	411	9	24	21	181	37	nse 120	2615	l	;	400	;	1		3015	452		3467		\$3924	358	
Irem	Number of persons family	Adult equivalents family	other	Expenses	Food and meals bought	Operating and supplies	Furnishings and equipment	Clothing & clothing materials			Gifts & special events	Medical & hosp, insurance		Personal share of auto expense	Upkeep on dwelling	Personal share of tel, & elec. Expe	Total cash living expense	Ø	New dwelling	Taxes	Life insurance	Other savings & investments	Total household & personal	cash exp.	Family living from the farm	Total cash expense and	perquisites	Receipts	Return to capital and family labor	Other personal income	

\exists	
1962	
the Farm.	•
the	
From	
ving	
İ	
>	
Family Living	
Table 7	

		Ave. of					F	Farm Number	er			
Item		20 farms	25	19	27	26	20	21	18	က	2	2
No. of ad	No. of adult equivalents											
Family		4.6	7.1	8.9	4.9	6.4	5.3	5.9	ა ზ	6.2	4.4	4.2
Other *		.1	67	ł	ł	ຜ	ł	ł		· }	i	ì
Whole milk qts.	llk qts.	1465	2400	2170	2493	2880	2200	ł	1300	1630	1040	995
Cream	pts.	49	72	20	51	ŀ	ł	ł	1	ł	33	662
Cattle	lbs.	753	2400	1	1250	800	2000	1	ł	900	700	1000
Hogs	lbs.	347	230	800	1050	1	200	550	ł	450	200	450
Lamb	lbs.	9	ł	ł	ł	ł	ì	ł	. !	ł	ł	i
Poultry	lbs.	36	1	ł	į	1	ł		ł	260	ł	ł
Eggs	doz.	œ	ł	ł	1	ł	1	ì	ł	158	ł	;
Total value	nue	\$285	\$526	\$273	\$527	\$273	\$442	\$80	06\$	\$409	\$249	\$327

Item 1 4 12 16 24 8 23 No. of adult equivalents Family 4.4 5.7 2.8 2.8 3.0 1.8 5.0 Other* Whole milk qts. 2160 1410 1130 1440 2200 751 1560 Cream pts. 16 120 Cattle lbs. 400 940 Lond 1bs. 400 940	3.0 1.8 2200 751 16	3,3 1,8 ,9 830 720
alents 4,4 5,7 2,8 2,8 3,0 1,8 16 2160 1410 1130 1440 2200 751 16 600 900 1200 800 400 940	3.0 1.8 5.0 2200 751 1560 16 120	8. 9. 830
4,4 5,7 2,8 2,8 3,0 1,8 2160 1410 1130 1440 2200 751 16 600 940 1200 800 400 940	3.0 1.8 5.0 16 120	830
2160 1410 1130 1440 2200 751 16 600 900 1200 800 400 940	2200 751 1560 16 120	830
2160 1410 1130 1440 2200 751 16 600 900 1200 800 400 940	2200 751 1560 16 120	830
600 900 1200 800 400 940	16 120	1
600 900 1200 800 400 940	000	
400 940 400	1200 800 800	700
(220
130	130	ľ
200		ŀ
	11	ļ
\$452 \$226	\$452 \$226 \$316	\$204

(1) Arranged in descending order of labor earnings

^{*} Hired help or others boarded

Some Management Factors That Affect Earnings

Some of the variation in earnings from year to year and from farm to farm are due to variations in prices, weather, and other factors over which the farmer has little, if any, control. However, there are many management factors which are largely within the control of a farm operator. Some of these management factors are shown in table 9.

Volume or size of business in terms of work units is probably the most important of these factors. Size of business varied from 793 work units to 202 per farm. Farms with a large business tend to have an advantage in labor efficiency and in control over expenses. A well-balanced crop and livestock program spreads the work load throughout the year and provides for fuller employment of workers.

Control of farm expenses is another important factor. One measure of this is the power, mach., equipment, and bldg. expense per work unit shown in table 9. A second measure is that of power and machinery expenses per crop acre as shown in table 12. Another measure can be determined by calculating the proportion of farm sales needed to cover farm expenses. (Table 2: item 42 - item 13). An average of 70 - 75 percent of the farm sales are usually needed to pay farm expenses. This, however, varies considerably among farmers. High costs relative to gross income holds earnings down on some farms. However, although a farmer should attempt to keep the proportion of farm expenses relatively low, he cannot do this by decreasing those expenses necessary for maintaining an adequate volume of production. Instead, it is usually necessary to increase total expenses in order to increase the volume of sales. The purchase of commercial fertilizers, for example, increases farm expenses. This, in turn, will increase the feed supply under normal weather conditions and make possible the maintenance of a greater number of livestock.

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 8.

Table 8. Number of Work Units for Each Class of Livestock and Each Acre of Crop

	No. of		No. of
Class of Livestock	Work Units	Crop	Work Units
Dairy & dual-purpose cows	10.0 per cow	Small grain	.7 per acre
Other dairy & dual-		_	- .
purpose cattle	3.5 per an. unit*	Truck crops	6.0 per acre
Beef breeding herd	3.5 per an. unit*	Potatoes	3.8 per acre
Feeder cattle	.25 per 100 lbs.	Corn-husked	1.1 per acre
Sheep - farm flock	1.2 per an. unit*	Corn-silage	1.7 per acre
Sheep - feeder	.3 per 100 lbs.	Oat silage	.9 per acre
Hogs	.2 per 100 lbs.	Alfalfa hay	.9 per acre
Turkeys	.5 per 100 lbs.	Other hay	.6 per acre
Hens	20.0 per 100 hens	Legume seed	1.0 per acre

^{*} An animal unit is based on the amount of T.D.N. consumed. One animal unit thus represents 1 dairy cow or bull, 2 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, 2-1/2 hogs, 5 pigs, 50 hens, or 1.100 pounds of turkeys produced.

	Ave. of		Ave. of Farm Number			Farm	m Number	er				
Items	20 farms	25	19	22	56	20	21	18	က	67	2	
Labor earnings	\$2446	\$7969	\$5798	\$4556	\$3679	\$3658	\$3595	\$3523	\$3493	\$3341	\$2642	
Crop yields	100	102	112	190	96	110	82	104	124	122	98	
Index of return for \$100												
feed to prod, livestock	100	67	140	101	132	103	109	131	ጿ	147	74	
Livestock units per												
100 acres	22.0	22.3	23.7	53.2	22,5	28.5	27.5	14.1	22,1	24.4	10,6	
Size of business												
work units	409	793	357	427	674	487	202	423	401	358	434	
Work units per worker	273	466	210	267	421	348	168	325	334	298	289	
Power, mach., equip.,												
pidg. expense per												
work unit	\$9.62	\$8.16	\$13,19	\$6,03	\$8.78	\$10.68	\$14.34	\$7.50	\$8.99	\$7.45	\$4.96	
Items related to above measures:	easures:											
Index of return for \$100 feed from:	eed from											-
Dairy cattle	100	63	150	107	132	103	1	131	100	116	74	18
Hogs	100	93	127	83	ł	l	106	ł	94	214	1	
Sheep	100	l	ł	1	ţ	i	104	1	l	ļ	1	
Beef breeding herd	100	;	ł	1	ł	!	144	!	ł	ł	i	
Feeder Cattle	100	i	i	ļ	ł	ł	ł	1	}	1	ì	
Number of Animal Units Work units:	54.0	86.2	56,3	65,0	115.0	55.7	68.5	45.1	44.0	47.5	21.8	
Crops	86	200	102	38	147	92	77	93	105	75	91	
Productive livestock	290	587	255	383	516	403	125	314	296	262	143	:
Other	21	9	<u> </u>	9	11	œ	ł	16	ł	27	200	
No. of workers:												
Family	1,3	1,5	1,0	1.6	1.0	1,3	1.2	1,2	1,2	1,2	1.5	
Hired	2	.2	7.	1	9.	-	1	-:		1	1	
Total	1.5	1.7	1.7	1.6	1.6	1.4	1.2	1.3	1,2	1.2	1,5	
Expense per work unit:												
Power Cron mach	\$5.35	\$4,39 1.90	\$5, 09 5, 25	\$2.77 2.04	\$4.78 1.95	\$6.23 2.60	\$8.12 3.86	24,09 1,60	\$5.69 .97	\$4.96 1.69	\$3.03 1.27	
Livestock equip.	40.	1,01	2,15	1.03	1,23		1.87	1.34	1.35	282	32.	
Didgo, w tentang	7 · 1	•) 1 •	*) 		•	,	i •	! P	1	

Table 9. Measures of Farm Organization and Management Efficiency, 1962 (continued)

						Farm Number	oer				
Items	-	7	12	16	24	8	23	13	22	17	
Labor earnings	\$2083	ा873	ी70 4	ी608	738	6 9 93	799\$	£183	:-1280	\$-1556	
Crop yields*	93	134	128	57	87	59	77	83	83	51	
Index of ret. for \$100 feed										i	
to prod. livestock**	7.7	76	104	8	78	105	106	3	8	66	
Livestock units per 100											
acres***	14.5	20.8	17,8	21.4	21.0	29.3	7.9	18.6	24.3	11.4	
Size of business										•	
work units	455	425	386	340	197	233	710	230 230 230	312	317	
Work units per worker	253	354	257	£82	210	761	241	153	223	211	
Power, mach, equip,, bldg.								•			
expense per work unit	\$9.75	ी ०.48	\$10.38	%.13	12.01	8.54	\$10.28	\$13.64	\$11.35	311.02	
Items related to above measures:	97										
Index of return for \$100 feed from:	from:										
Dairy cattle	92	76	92	71	78	101	106	1	73	ક	
Hogs	28		120	1	1	1	1	63	63	: 1	
Sheep	. 1	ł	Ì	129	ļ	106	1	2	1	;	
Beef breeding herd	i	1		ì	ł	1	ł	, <u>, , , , , , , , , , , , , , , , , , </u>	1		. ;
Fooder cottle	1	!	000		į			1 6			
		ì	747	ì	1	ł	1	2	1	1	
No. of animal units Work units:	53.1	76.2	48.1	47.3	50.0	24.8	40.5	55.6	50.5	28.6	
Crops	ארו	8	113	à	20,	77	נטנ	125	8	7	
Productive livestock	322	37D	273	256	176	2 2	Š) E	23,	25.3	
Other	17	m	1	1	17	ଷ	5	8	1	}	
No of workers:											
Femily	1.7	1.0	1.2	1.0	2.0	1.2	1.7	1.9	1.0	1.2	
Hired		•2	.3	*5	•2	}	į	1	7.	6	
Total	1.8	1,2	1,5	1,2	2.2	1,2	1.7	1.9	1.4	1.5	
Expense per work unit:											
Power	\$4.57	37.18	%. %.	£.23	5.93	§4.62	\$.02	07.88	65,83	85.76	
Crop mach.	2.51	2,15	2.98	9 •	3.17	1.98	2.92	2.01	2,32	2.21	
Livestock equip.	96.	53	£ 7 3	٠ <u>.</u>	67.	.27	87.	1.56	.52	50	
Bldgs, & fencing	1.71	39.	1.01	88	1,12	1.67	1.86	1.67	2.68	2.55	

Table 10. Distribution of Acres in Farm, 1962 1

	Ave. of	1				Farm M	Number				
Crop	20 farms	25	19	27	26	20	21	18	3	2	
Oats for grain and silage	27.7	50	55	ł	ł	16	ω ι	56	**	32	
Other small grains	1.2	1	3				7	11			
Total small grains	58.9	50	58	1	į	16	15	92	88	32	
Corn grain	24.7	33.	, 67 8		15	1 %	53	. 4	4%	81.5	
Total cultivated crops	48.3	8	75		3	3 %	9	35	3 9	37	
Alfalfa & alfalfa mix hay Red clover hay	54.6	190	8 1	79	178	& 1	27	33	91	23	
Other hay & seed crops	2 68	*	1	1		10		2			
Total tillable land in hay	63.6	190	30	79	178	33	3	37	97	75	
Alfalfa & alfalfa mix pasture Other tillable pasture	38.9	10	77 !	30	156	20	99	09	11	5	
Total tillable land in pasture	8.07	82	7/7	30	156	30	09	9	11	8	
Soil bank & feed-grain acres Tillable land not cropped	17.3	09	10	1 11	35	20	59		1 8	1 1	
Total tillable land	204.6	385	217	76	427	130	236	158	184	116	
Wild hay Non-tillable pasture Timber not mastured, roads	12.2	1 1	1 02	! %	82	35	ដ	100	5	75	
waste, and farmstead	69.2	55	77	138	- 91	75	116	229	81	97	
Total acres in farm	344.0	077	279	160	009	270	365	247	280	240	
Percent land tillable	09	88	78	59	7.1	877	65	29	99	877	
•											

thranged in descending order of labor earnings

	Table 10.		Distribution	of Acres	s in Farm,		1962 (continued)	led)				
					134 18	Farm Number	អួ					
Crop	5	-1	7	12	16		∞	23	13	22	17	
	07	20	20	1.77		47.5	7	50	09	10		
Other small grains		1	1	1	1	1	1	1	1	77		
Total small grains	07	70	20	1.7	;	47.5	ኋ	50	9	57	1	
Corn grain	ן ני	35.	919	4:	8 8	13	5	55	67	79	1 6	
Total cultivated crops	3.5	3	49	20 65	55	1 3	9 9	77	\$ 69	8 8	91	
Alfalfa and alfalfa mix hay Red clover hay	4 l	7287	41	53 I	911	64.5	813	35	84	82 1	ង៖	
Other may a seed crops Total tillable land in hay	177	63	17	52	3 5	64.5	53	4 6	84	8	19	
Alfalfa & alfalfa mix pasture Other tillable pasture	7		33	1	91	8 1	72.4	17.5	25	13	97	-
Total tillable land in pasture	71	ł	33	1	91	32	72.4	28.5	35	51	97	21 -
Soil bank & feed-grain acres fillable land not cropped	1 1	4	17	1 1	1 1		37.6	8	5 6		50	
Total tillable land	101.5	237	17,8	158	219	188	187	239.5	298	193	175	
Wild hay Non-tillable pasture Timber not nastured	102.5	128	8 99	ଝଞ	~	1 82	1 1	267	1 1	13	75	
	76	75	37	50	59	122	53	42.5	17	8	50	
Total acres in farm	007	770	259	320	280	360	240	549	315	235	300	
Percent land tillable	25	54	57	67	28	52	78	77	95	82	88	

Table 11. Crop Yields per Acre, 1962 1

AVE. DI IATES rejsing each	Farm	Farm Number				
25 19 27	%	20 21	18	٦	2	5
7.0	1		1	1	0.7	1
50.0	ļ	0.47	29.0	7.07	52.9	36.9
	;		!	60.5	61.1	; }
	7.5	5.0	7.5	8	7.3	7.1
2,1 2,0 4,1	1.9	2.4 1.8	2.6	60	2.7	2,3
}	;	3.5) 	1	; ;	}
;	å		43	1.0	٠ و	.7
\$25.57 \$28.88 \$41.76	\$22.25	\$21.33	!	ł	. !	: }
\$28.88 \$41.76	\$22.25	- 1	3			

	واستدرات والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة				Fa	Farm Number	4				
Crop	1	7	12	16	24	8	23	13	22	17	
Oats silage, tons	1	. t j .	!	ł	!	1	ţ	}	ł	1	
Cats grain, bu.	25.7	65.0	54.7	1	51.2	42.8	24.2	47.3	50.0	ŀ	
Corn grain, bu.	75.2	7.87	73.0	30.0	ì	1	79.7	6.67	54.4	1	
Corn silage, tons	8,3	7.7	9.1	5.0	6.7	7.0	7.6	6.9	6,2	5.8	
Alfalfa & alfalfa mix											
hay, tons	1.4	4.1	ن. د.	1,1	щ 80°	1.2	2.2	ထ္	2.4	χ,	
Annual hay, tons	0.6	ł	i	1.2	1	ň	1	. 1	1	٠ د	
Wild hay, tons	i	1	٥.	ļ	ł	i i	1	ŀ	i	: 1	
Feed-grain payment	\$29.72	1	ł	ł	Į	;16.41	\$20.56	\$23.67	1	i	

1 Arranged by descending order of labor earnings

	•											
	Ave. of		4,		-	Farm Number	oper					-
	20 farms	25	19	27	26	20	21	18	တ	7	2	
Crop acres per larm	153	297	163	64	218	120	117	158	158	123	190	
Tractor exp. per	85,95	\$5,08	\$5.20	\$5,20	\$5.22	\$5.22 \$13.04	\$6.91	\$2,38	\$6,37	\$5.92	\$2,80	
mach. exp.			•									
	\$6.46	\$5,07	\$11.50	\$13,63	\$6.04	\$10.56	\$6.66	\$4.27	\$2.45	\$4.91	\$2,91	
	Į					•					**	
					F	Farm Number	ber					
Items	1	4	12	16	24	æ	23	13	22	17		
Crop acres per farm	193	118	187	128	156	7.7	161	213	142	79		
					•			ı	ě	9		
crop acre	\$4.02	\$9.69	\$5.93	\$4.69	\$8.60	\$4.42	\$6.49	45. 33	CO . 22	46.00		
Crop & Gen. Mach. Exp.		ı		•			ţ	9	£	0		
per crop acre	\$5.92	\$7.76	\$6.15	\$1.84	\$9.37	\$5.98	\$7.43	22.14	49.10	\$0.01		
												- 2
			. 1		i	1						3 -
			Table 13.		rage Pri	Average Price of Feeds, 1902	2081 1802					-
			;			, ,					Volue	
Items			Value			nems					onus.	 - - -
Ear corn. per bu.			\$ 96°			Alfalfa	Alfalfa hay, per ton	ton			\$19,00	
Oats ner bu			.61			Red or	alsike cl	Red or alsike clover hay, per ton	per ton		16,10	
Rorley nor his			66			Timoth	Timothy, per ton	5			11,00	
Wheat ner hn			2,18			Wild be	Wild hay, per ton	Q			9,50	
Contract por second			4 40			Corn 8	Corn silage, per ton	ton:			6,50	
coynean mean, per cwi-			04.				7 (-0	100			9.50	
Meat scraps, per cwt.			5,70			Pastur	Pasture per mo. per cow	ber cow			2	

Table 14. Factors of Cost and Returns from Dally Cows, 1962 (1)

	Ave. of										
Items	18 farms		~	25	17	24	18	19	က	5	i
Pounds of butter fat per cow	356	448	412	404	4 204	399	398	396	393	363	[
Pounds of milk per cow	9426	12210	11585	11469	10535	11620	11339	10951	11199	10959	
Ave. test of milk (percent)	3.6	3.7	3.6	9,0	က ထ	3.5	3,5	3.6	3,5	ຄື	
Price per lb. BF sold (cents)	88.6	96.7	97.5	97.5	96,1	87.0	97.0	98.6	90.0	89.3	
Price per cwt. milk sold	\$3,29	\$3.55	\$3.47	\$2.86	\$3.68	\$2,99	\$3,40	\$3,56	\$3.16	\$2,95	
Feed per cow, 1bs.:											
Corn	1643	2091	3899		1275	984	1913	970	1447	1	
Small grain	750	1160	1215		1	2875	673	401	252	1118	
Commercial feeds	568	844	844	748	1495	284	375	193	435	15	
Legume hay	5567	2500	3122		5464	4688	2917	4184	6473	13010	
Other hay	658	4250	2363		2732	}	2500	1	1	1	
Total concentrates	2961	4095	5958		2770	4143	2961	1564	2134	1133	
Total hay	6225	6750	5485		8196	4688	5417	4184	6473	13010	
Silage	9230	10188	14768		6829	10781	11250	8117	8696	ŧ	
Feed cost per cow:											24
Concentrates	\$66.07		\$125,88	\$138,13		\$104.20	\$58,72	\$31,39	\$53.20	\$22,01	_
Roughages	86.58		84.74	150,65		79.57	78.52	62,59	89.76	123.60	
Pasture	9,37		7.59	8.42		8.59	6,87	13,49	6,88	12,37	
Total feed cost		181.29	218.21	297.20	170,22	192,36	144,11	110,47	149.84	157,98	
Value of produce per cow:											
Dairy product sales	319,86	428.05	391.38	376,51	385,50	340,20	374,36	371,06	335,47	311,16	
Used in home	5.80	2.24	6,38	4,22	2,39	8.87	3,74	5,99	6,30	15,73	
Fed	4.67	1	3,31	12,15	;	2.50	7.47	11,08	13,26	99°9	
Net increase in value of cows		-28.53	2,41	-1,17	-23.57	-14,09	-13,76	-24.05	-16,06	5.50	
Total value produced	321,16	401.76	403,48	391,71	364,32	337,48	371,81	364.08	338.97	339,05	
Return above feed cost per cow:		220.47	185.27	94,51	194,10	145,12	227.70	253,61	189,13	181,07	
Returns for \$100 of feed		\$222	\$185	\$132	\$214	\$175	\$258	\$330	\$226	\$215	
Feed cost per lb. BF (cents)		32.1	53.0	73.5	42.2	48.0	36,2	27.9	38.1	43.6	
Number of cows	23.8	32.0	23.7	46.0	23,5	25.6	24.0	23.9	20.7	10.3	
											1

(1) Arranged in descending order of pounds of butterfat per cow

Table 14. Factors of Cost and Returns from Dairy Cows, 1962 (continued)

					Farm Nu	nber				
Items	~	7	5 6	12	ຄ	75	22	16	8	
	353	338	329	318	316	305	302	275	262	i
	1003	6463	9517	8863	6843	8136	9668	7708	7248	
Ave. test of milk (percent)	er er	3.6	بن بن	w.	6.4	3.7	3,6	3.4	3.6	
Price per 1b. BF sold (cents)	88. 	7.56		83.5	81.7	87.9	0. 0.	93.3	84.1	
Price per cut. milk sold	33.11	83.33	33.33	83.00	33.77	\$3°30	£, 28	\$3.34	83.05	
Feed per cow, lbs.:										
Corn	423	1981	361	255	1620	1550	1867	3959	ļ	
Small grain	987	1490	ł	550	727	682	989	1	107	
Commercial feeds	ł	220	2783	ţ	172	566	1273	205	111	
Legume hay	5882	3935	1	71,01	3306	5482	7246	5568	5128	
otner nay	1	1	1	!	1	!	ł	į	1	
Total concentrates	606	3692	3144	805	2519	2498	3828	7917	1.87	
Sell nay	5882	3935	1 6	10417	3306	5482	7246	5568	5128	
-114ge	11803	11020	1,83 83	!	6735	8637	12319	8108	7693	
Feed cost per cow:										
Concentrates	\$16.36	377.75	772.90	\$18.75	\$48.95	\$59.13	\$98,10	\$78.18	\$11.49	
Koughages	93.81	72,11	45.15	98.96	53.29	81.12	108,88	79.24	89.68	
a. Toronto	71.53	10.92	8.02	12.63	11,16	7.61	10.14	5.84	12,82	
lotal reed cost	121.70	160.78	126.07	130,34	113,40	147,86	217.12	163.26	113,99	
Value of produce per con:										
Dairy product sales	307.60	305.09	310.28	253.69	252.40	264.19	291.38	244.27	77.716	
Used in home	3.89	5.09	5.16	6.47	6.87	4.13	4.21	5.45	7.20	
	1.03	7.45	2.57	7.21	1	1	2.28	7.00	1	
met increase in value of cows	2	6.50	3,13	-5.06	-22,70	-5.15	-39.35	3.02	8.51	
lotal value produced	311.94	324.13	321.14	262,31	236.57	263.17	258.52	259.74	230.15	
Return above feed cost per cow	190.24	163,35	.95.07	131.97	123.17	115.31	07.17	87.96	91.911	
Returns for \$100 of feed	\$256	\$201	\$255	\$201	\$20 3	\$178	\$119	\$159	\$202	
Feed cost per lb. BF (cents)	34.5	7.67	38	77.0	35.9	\$ 8 7	0 17	7 09	, ,	
		•	1			}	•	****]	
Number of cows	7.02	27.7	37.4	28.8	24.2	19.7	13.8	18.5	7.8	

Table 15. Feed Costs and Returns from Other Dairy Cattle, 1962 1

	Ave. of	!			TE	Farm Number					-
Items	18 farms	82	-1	25	17	24	18	19	3	7	
Feed per head, lbs.:	251	650	7,5	323	336	155	180	165	767	78	
Hay and fodder	2281	1062	1538	4811	6274	1663	1279	550	1818	2346	
Silage	2746	7558	5528	344	4118	5667	2180	1978	7636	.	
Whole milk	135	1	58	275		77	133	445	390	189	
Total feed costs per head	\$46.12	\$54.94	\$43.29	\$71.11	\$87.11	\$41.69	\$29.46	\$37.61	\$65.76	90*07\$	
Net increase in value	67.07	109.74	74.16	71.57	86.30	58.16	71.41	35.11	77.39	50.20	
Return above feed cost	20.95	54.80	30.87	97.	81	16.47	41.95	-2.50	11,63	10.14	
Return for \$100 of feed	\$163	\$200	\$171	\$101	66\$	\$139	\$242	66	\$117	\$125	
Number of head of cattle	33.5	47.1	9.17	58.2	10.2	7.87	42.2	18.2	22.0	34.1	
											-26-
					Fai	Farm Number					-
Items	5	2	26	27	23	12	22	16	80		
Feed per head, lbs.:	,	,	•	1					•		
Concentrates	133	248	88	759	785	120	506	179	%		
Hay and fodder	5752	3429		7077	431	2400	1270	2873	1151		
Silage Whole milk	103	1878 27	1379 77	156	1846 394	3200	2823 39	1091 151	2198		
Total feed costs per head	09 *99 \$	\$41.88	\$12.98	60*97\$	\$43.24	\$39.78	\$32.62	\$47.23	\$28.64		
Net increase in value	18.44	68.22	17.61	100.80	57.03	78.57	79.04	74.60	55.45		
Return above feed cost	-21.73	26.34	31.63	54.71	13.79	38.79	77.97	-2,63	26.81		
Return for \$100 of feed	£9\$	\$162	\$344	\$219	\$132	\$198	\$242	766	\$194		
Number of head of cattle	21.8	24.5	81.2	41.6	32.5	17.5	24.8	27.5	9.1		

1 Arranged by descending order of pounds of butterfat per cow

	Table 16.		osts and	Returns f	rom All D	Teed Costs and Neturns from All Dairy Cattle, 1962	le, 1962				1
Item	fve. of	83		82	17	77	93	ସ	٣	~	
Feeds per cow, lb.: Concentrates Hey and fodder Silege	3286 9201 13537	5051 8313 32156	6178 8185 24473	6901 16957 15217	2734 10382 8171	4437 7852 21563	3279 7667 15083	1690 46 03 9623	2447 8406 16812	3795 6623 10686	
Total feed cost per cow	\$216.97	\$262.16	\$290.89	\$375,03	\$196.89	11,6953	\$188.45	\$128.03	\$206.46	\$202,67	
Value of prod. per cov Dairy products	324.25	430.29	397.75	380.73	362.52	349.07	378.09	377.06	341.77	310,18	
Met increase in Value of cattle Total value produced	83.45	132.98	530.32	270.11	377.94	45.63	111.82	379.74	66.19 407.96	378.48	
Return above feed per cow	190.73	301,12	239.43	95.08	181.05	176.46	301.46	251.71	201.50	175.81	
Return per \$100 of feed	\$198	\$215	\$182	\$213	\$192	9913	\$259	1625	\$198	\$186	
No. of cows	8.62	32.0	23.7	16.0	23.5	25.6	24.0	23.9	20.7	7.72	-27
						, and					. }
Line	3	2	8	2	23	12	22	9	8		11
Feeds per cos, lb.; Concentrates Hay and fodder Silage	25184	1567 10000 14138	3291	777	3171 3884 9215	2605 7614 11771	4205 9529 17391	386 388 388	5220		
Total feed cost per cov	\$292,29	\$170.98	\$151,68	£189.71	\$149.25	\$183,20	\$274.48	\$226.46	\$147.41		
Value of prod. per cost Dairy products	326.90	311,49	315.44	260,16	259.26	268.32	295.59	27.677	221.65		
cettle fotel value produced	100.47	81.35	99.99	140.54	313.15	332,96	398.29	319.04	73.20		
Return above feed per cov	135.08	221,86	263.75	210.99	163.90	149.76	123,81	92.58	147.44		
Return per \$100 of feed	\$776	\$229	7128	1123	8210	\$182	\$145	9778	\$200		
No of coss	10.3	20.4	37.4	85 85	24.2	19.7	13,8	18.5	7.8		

Table 17. Feed Costs and Returns from Market Hogs, 1962 1

	Ave. of			Farm Number	16	
Items	5 farms	12	19	3	22	1
Feed per cut. hogs produced. lbs.:	471	i c	223	200	702	4 5 6
Smell grain	604 609) 911	7 80 7 80	2/2 4/8	251 251	688 1
Commercial feeds	7.1	59	39	56	99	135
Total concentrates	635	405	410	516	823	1020
Feed cost per cut. hogs produced	\$14.42	\$10.38	8 8,31	\$13.99	\$18.18	\$21.24
Net increase in value per cut. hogs produced	\$17.57	\$18.99	\$16.15	\$16.37	\$17.70	\$18.65
RETURNS ABOVE FEED COST PER CWT. HOGS PRODUCED	\$3.15	19.83	₹2.84	\$2.37	87*3	\$-2.59
RETURNS FOR \$100 OF FEED	\$136	\$183	\$194	\$116	69	88
Price received per cut, hogs sold	\$16.49	\$17.39	\$16.06	\$16.78	\$15.73	\$16.51
Average weight per hog sold	193	113	272	281	152	198
Total number of litters raised	15	17	19	12	57	7
Number of pigs born per litter	80	8.0	6.6	8*9	6.7	₩
Number of pigs weamed per litter	7.0	8.9	88 83	5.9	بر. ب	9
Pounds of hogs produced	20172	18538	42050	17910	16035	6325

1 Arranged by descending order of return above feed cost per cwt. of hogs produced

Table 18. Feed Costs and Returns from Feeder Pigs, 1962

	Ave. of			Farm Number	ı		
Items	5 Farms	2	21	25	27	13	i
Feed per litter, lbs.:							1
Corn	1508	1075	2611	27.17	343	78.1	
Small grain	416	410	82	1	867	1116	
Commercial feeds	518	8	976	334	475	711	
Total concentrates	2442	1581	3640	3078	1326	2608	
Feed cost per litter	\$53	\$2 \$	\$78	\$55	375	09\$	
Net increase in value per litter	82	93	126	82	52	8	
RETURN ABOVE FEED COST PER LITTER	53	65	87	23	10	7	
Return for \$100 of feed	\$171	\$328	\$162	\$142	\$125	96\$	
Total number of litters	27	25	56	92	34	69	
Number of pigs born per litter	8,3	8	10.1	6.1	8.5	8.5	- 29
Number of pigs weaned per litter	9*9	7.4	7.8	5.0	6.3	7.9	-
Number of feeder pigs sold	245	194	300	86	207	867	
Price received per feeder pig sold	\$12.16	\$11.59	\$12.29	\$11.42	\$12.48	\$13.00	
Number of sows and other hogs sold and butchered	78	ł	89	15	15	07	
Price received per cwt. sows & other hogs sold	\$14.66	1	\$16.14	\$15,10	\$12.67	\$14.73	
Pounds of hogs and pigs produced	16693	7650	33346	12385	11287	18797	
							1

1 Arranged by descending order of return above feed cost per litter

Table 19. Feed Costs and Returns from a Farm Flock of Sheep, 1962

A			waye falance wa			1
	Ave. of		Farm Number	ber		
Items	4 farms	16	ಕು	21	13	
Feeds per ewe, lbs.: Concentrates Legume hay Other hay Silage	183 754 5	588	254 377 19 94	315 588 	112	
Feed cost per ewe: Concentrates Roughages Pasture TOTAL FEED COSTS	\$3.80 7.20 2.90 13.90	3.58 9.76 9.76	\$ 5.00 13.00 12.39	\$5.71 5.59 2.23 13.53	\$2.30 12.61 3.12 0.31	
Value of produce per ewe: Wool Net increase in walue of sheep TOTAL VALUE PRODUCED	\$5.31 10.97 16.28	%4.68 10.85 15.53	%6.43 12.15 18.58	\$5.28 12.05 17.33	\$4.85 8.82 13.67	- :
RETURNS ABOVE FEED COST PER EWE	2.38	5.77	4.29	3.80	-4.36	30 -
RETURNS FOR \$100 OF FEED	\$123	\$159	\$130	\$128	913	
Price per cwt, of lambs sold Price per lb, wool sold (cents) Pounds of wool per sheep sheared	19.87 67.8 7.7	\$17,86 80.2 5.8	\$16.57 60.7 10.3	\$20.03 60.7 8.0	\$25.02 69.8 6.7	
Percent lamb crop* Percent death loss*	106 8.0	93	115	105	109	
Number of ewes*	111	80	212	911	34	
						1

* Lambs which die during month of birth are not included

Table 20. Fertilizer Application, Crop Yields, & Return Over Cost of Fertilizer, 1962

-100	ie zv.	Pou	nds of i	Vutrient	si, ciop	i letus, oct	verorii Over v	Cost of Fertilize Return per	er, 1902
Farm	1961			er acre	Yields p	per acre		acre over	Returns per
No.	Crop	N	P2O5	K ₂ O	Check	Fert.	Increase	fert . cost(1)	fert. dollar
						-Grain			
4	Alf.	10	20	30	33	67	34	\$30.39	\$ 7.01
4	Corn	30	10	60	35	64	29	21.43	3.52
19	Alf.	. 80	50	42	40	97	57	40.65	3.13
19	Corn	80	50	42	35	<i>7</i> 8	43	26.26	2.38
25	Corn	33	28	30	19	35	16	8.26	1.95
21	Corn	48	36	36	26	48	22	9.45	1.75
3	Oats	10	20	30	68	<i>7</i> 5	8	2.88	1.58
2	Corn	40	30	90	40	60	20	7.50	1.56
3 2 2 4	Corn	40	30	90	40	54	14	1,52	1.11
	Corn	30	10	60	37	46	9 7 7	.64	1.08
19	Alf.	34	20	15	34	41	7	13	,98
12	Corn	43	35	38	32	39		- 4.29	.64
19	Oats	5	10	15	34	34	0	- 2.87	.18
					Corn Sil	age (2)	·		
20	Hay	10	20	30	13.3	19.5	6.2	\$38.40	\$ 7.68
24	Com	15	30	45	2.0	8.8	6.8	40.10	5.34
24	Com	45	40	45	2.0	9.6	7.6	40.20	3.41
20	Hay	10	20	30	11.1	13.5	2.4	11,80	3.36
24	Corn	45	40	45	2,5	10.4	7.9	42.30	3.25
24	Hay	45	40	45	3.0	8.8	5,8	27.60	3.13
18	Corn	51	42	45	15.1	22.6	7.5	38.30	2.72
24	Hay	15	30	45	3.0	5.6	2.6	10 .7 0	2.44
24	Corn	15	30	45.	2.5	4.9	2.4	9.30	2.24
26	Corn	43	35	38	11.4	14.3	2.9	8.55	1.75
26	Corn	43	35	38	9.4	9.7	.3	- 9.65	.19
	Year(3	3)	•		Tame I	Hay (4)			
2	1961	1 5	5	30	5.34	5.88	.54	3.85	1.90
4	1960	30	10	60	2.32	3.46	1.06	7.40	1.87
]]	1960	23	8	45	3.60	4.80	1.20	11.62	1.66
24	1961	15	5	30	2.00	2.32	.32	.55	1.13
24	1961	20	40	60	3.00	4.84	.64	40	.96
12	1961	15	5						
i Z	1701	13)	30	3.08	3.24	.16	- 1.85	.57

(1) Prices used in calculating return from increase in yield over fertilizer cost:

Corn grain - \$1.05 per bu. Corn silage - \$7.00 per ton

Tame hay - \$15.00 per ton

Actual nitrogen - \$.15 per pound Actual phosphate - \$.10 per pound Actual potash - \$.05 per pound

- (2) Green weight at harvest.
- (3) The year in which fertilizer was applied on oats with seeding.
- (4) Usual 2-cutting yield based on one measured cut.

(Note: The average small grain increase in year of seeding paid 60% of fertilizer cost.)

Table 21. Comparison of Results for Identical Farms for Years 1958-1962

					for Identic	cal Farms fo			2	
Farm		and the same of th	es Per Fa	_			Income			
No.	1958	1959	1960	1961	1962	1958	1959	1960	1961	1962
1	13,127	13,629	13,373	15,327	17,018	7,398	7,116	4,789	5,231	7,948
2	9,949	8 <i>,7</i> 35	9,773	10,113	10,734	5,425	3,981	4,577	5,210	4,809
3	12,858	11,157	10,259	13,464	13,670	6,352	5,350	4,121	6,036	6,613
4	9,095	9,449	8,816	11,168	11,909	4,360	4,797	3,906	6,195	5,488
5	6,283	7,051	7,483	7,217	8,012	3,412	4, 192	4,537	4,122	4,892
7	8,990	10,372	10,036	12,869	-	5,968	6,902	6,131	9,027	· -
8	7,302	9,895	10,670	6,779	9,316	3,369	3,880	2,020	2,065	3,268
12	9,010	8,107	9,449	10,006	11,177	5,019	2,467	4,072	4,755	1,822
13	9,981	13,294	17,677	18,455	14,406	5,344	917	2,028	6,825	3,258
16	7,304	7,676	6,454	8,289	7,028	2,019	2,185	2,190	3,460	1,971
17	4,587	6,095	8,069	-	12,029	1,305	42	3,204	· <u>-</u>	4,161
18	-	10,570	12,445	12,903	14,179	• -	3,067	5,239	4,797	5,907
19	-	16,764	15,603	17,096	18,831	_	11,828	9,366	10,380	11,500
20	-	14,076	15,775	16,983	18,007	-	6,893	7,451	8,193	6,722
21	-	13,868	13,329	16,273	13,095	_	4,081	6,872	6,192	5,573
22	-	9,913	9,269	11,226	9,970	-	2,922	2,988	3,338	2,717
23	per l	8,534	8,949	10,962	9,815	-	3,937	3,842	4,902	4,240
24	-	12,018	12,637	13,792	12,904	-	7,059	6,617	8,198	6,111
25	_	19,364	17,865	19, 171	24,589	_	2,860	6,321	8,708	9,173
26	-	12,765	15,154	18,014	18,908		5,426	6,259	6,155	8,645
Ave.	8,953	11,167	11,654	13,164	13,452	4,543	4,495	4,827	5,989	5,517
Farm	Re	turn to Co	apital and	l Family I	abor		Operator'	s Net Wo	orth (Dec.	. 31)
No.	1958	1959	1960	1961	1962	1958		962	4-Year (

Farm	Re	turn to Co	pital and	Family L	Opera	Operator's Net Worth (Dec. 31)				
No.	1958	1959	1960	1961	1962	1958	1962	4-Year Change		
1	-	3,616	3,845	4,081	4,134	20,139	25,551	+ 5,412		
2	3,527	2,825	3,553	3,350	4,226	11,928	16,610	+ 4,682		
3	4,318	3,718	3,647	6,688	5,380	28,488	30,104	+ 1,616		
4	3,294	3,260	4,583	6,182	2,695	14,940	14,445	- 495		
5	2,925	3,733	3,432	2,956	3,639	9,266	11,718	+ 2,452		
7	4,599	7,209	6,297	8,840		30,887		-		
8	2,430	3,200	1,861	158	1,761	21,090	20,570	- 520		
12	2,160	1,698	3,166	5,582	3,856	31,674	-	-		
13	2,494	4,894	4,006	- 578	1,548	24,510	37,041	+ 12,531		
16	518	2,291	2,175	2,086	2,396	13,352	17,312	+ 3,960		
1 <i>7</i>	360	24	1,327	-	333	30,691	_	-		
18	-	-	5,408	3,622	3,912	-	16 <i>,5</i> 60	-		
19	-	9,478	6,000	7,818	8,272	57, 191	87,907	+30,716		
20	-	4,543	5,658	6,082	5,240	23,779	26,439	+ 2,660		
21	, 🛥	6,272	4,370	5,576	4,626	16,042	21,992	+ 5,950		
22	-	1,865	1,396	4,610	- 438	17,001	20,058	+ 3,057		
23	-	3,219	213	227	3,143	22,924	_	•		
24	-	8,080	5, 131	4,606	3,924	39,581	47,943	+ 8,362		
25	_	625	1,164	6,438	9,794	37,493	38,407	+ 914		
26	-	3,582	4,180	3,985	5,255	29,625	35,096	+ 5,471		
Ave.	2,663	3,902	3,571	4,332	3,879	24,295*	30,080	+ 5,785		

^{*} Average of 15 cases which show net worth for both years.

- 33 Table 21. Comparison of Results for Identical Farms for Years 1958-1962 (Continued)

Farm	DA	nds of But	tarfat D	or Cour	ons for I	Tont o	TAL TOOL	3 1730	1702 (C	ontinued)	<u>'</u>
		1959		1961	1040	1 OD\$ 0	f Alfalfa		ST ACE	1040	
No.	1958		1960		1962	1958	1959	1960	1961	1962	
]	427	418	448	410	412	1.8	-	1.6	.7	1.4	
2	298	325	367	341	353	1.8	1.3	1.8	.8 2.2	2.7	
3	340	361	352	386	393	1.8	3.0 1.3 2.2	1.7	2.2	2.8	
4	302	311	338	304	338	1.5	1.3	1./	3.2	4.1	
2	351 254	376 271	327 247	375 295	363	1.1	2,2	2.3	1.6 .3	2.3	
2 3 4 5 7 8 12	317	341	2 7 9	258	262	1.8 1.8 1.5 1.1 .7 2.4	1.9	1.8 1.7 1.7 2.3	.3	1.2	
12	224	267	305	328	305	2.7	.9	1 0	1	2.2	
13	151	207	303	320	305	2.0 .7	1.2	1.0 1.5	1.1 .5	3.3	
16	243	309	296	279	275	4/	.9	.6	.5	.8 1.1	
17	282	394	372		404	1.8	-	1.7	_	.5	
18		334	358	375	398	1,0	ه.	2.2	2.5	2,6	
19		346	358 334	360	396	_	3.0	1.5	1.1	2.0	
20	_	356	392	408	448	_	1.5	1 0	1 + I	2.4	
21	-	555	5/2			_	1.5 2.1	1.8 1.2 1.5	.5 .8	1.8	
22	-	305	348	357	302	_	1 4	1 5	.6	2.4	
23		262	255	312	316	_	1.4	.8	• • •	2.2	
24		392	369	384	399		1.5	1.2	.5 .9 .7	1.8	
25	-	299	305	334	404	-	7.5	Ä	1.3	2.1	
25 26	-	337	359	347	329	_	<u>.</u> 5	2.7	2.0	1.9	
	000					w 4					
Ave.	290	334	336	344	359	1,6	1.5	1.5	1.2	1.7	
Farm			of Oats						Per Acr		
No.	1958	1959	1960	1961	1962	1958	1959	1960	1961	1962	
1	44	33	41		26	38	44	35	54	<i>7</i> 5	
2	69	34	37	53	53	-	24	40	40	61	
1 2 3 4	45	44	38	16	40	36	48	31	60	61	
	36	27	61	40	65	30	57	-	65	49	
5 7 8 12	48	67	32	30	37	-	-	-	-		تن يده
7	24	14	40	-	-	-	•	-	-	-	
8	41	45	27		43	20	33	45	-	-	
	46	50	60	38	55	20	29	58	56	43	
13	30	45	13	13	47	17	52	26	21	49	
16	-	43	-	-	-	15	25 27	39	20	30	
17	25	91	25	-		-	27	39 67		_	
18	-	49	65	_	29		30	_	-		
19	-	38	34	29	50	_	65	61	51	52	
20	-	47	-		-	-	50	20	_	_	
21	-	44	24	10	44		42	18	25	37	
22	-	50	32	-	50	_	50	50	40	24	
22 23	-	18	17	10	24	-	36	18	29	26	
24		60	38	24	51		46				
25	-	32	50 50	25	60	_	31	20	25	34	
25 26	_	32 19	50 37	23	-	_	45	25 25	2J	J4	
		• • •	٠,	•	_	_	70	4.0	-		
۸۷۸	<i>A</i> 1	A2	27	24	AE	25	<i>A</i> 1	27	<i>A</i> 1	AE	
Ave.	41	43	37	26	45	25	41	37	41	45	