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1956 ANNUAL REPORT

NORTHEASTERN MINNESOTA FARM MANAGEMENT SERVICE

Department of Agricultural Economics  
and  
Agricultural Extension Service  
UNIVERSITY OF MINNESOTA

and

Vocational Department  
MINNESOTA DEPARTMENT OF EDUCATION

Cooperating

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# 1956 ANNUAL REPORT OF THE NORTHEASTERN MINNESOTA FARM MANAGEMENT SERVICE

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## INTRODUCTION

A project was started in northeastern Minnesota in 1954 by the Agricultural Extension Service with the object of obtaining a few examples of well-operated farms to use for teaching purposes. The farms were chosen as fairly representative of the size and conditions of farming in this area, and were restricted to those which appeared to need some reorganization in order to make substantial financial progress. With the help of the county agents, farms were chosen in the counties of Aikin, Beltrami, Carlton, Itasca, Pine, and St. Louis. Ermond Hartmans, farm management specialist of the University of Minnesota, supervised the records on eighteen farms during 1954, sixteen farms during 1955, and fifteen farms for 1956. In addition to this he assisted these farmers in planning the management of their farms.

In the same area another six records were supervised during 1956 by two vocational agriculture teachers--Charles Scott of Bertha Public Schools and Elmer M. Fragodt of Clarissa Public Schools. As the method of compiling these two groups of records was similar and the type of farming comparable, the 21 farms were combined for presentation in this report by the Department of Agricultural Economics.

The results of each farm are given in the following tables with the intention of showing up the various factors affecting farm incomes of individual farms, the effects of which are often hidden by averages. In most tables the farms are arranged in descending order of labor earnings, or according to some other important factor, such as return to capital and family labor or butterfat production.

The capital investment of these farms is approximately \$22,000 per farm. At the end of 1956 the investment in livestock was \$4900 and in machinery and equipment over \$5100. Land was valued at \$5875 and buildings at \$4575. In the area studied an investment of this size enables a farmer who meets present day standards in farm organization and operation to make an above average income.

One of the more significant items in the following tables is the level of farm expenses. Average total cash expenses were \$7150 and the lowest incurred by any farmer was \$1635. In 1956 seven of these 21 farmers did not obtain sufficient farm income to cover expenses and, in addition, the family living had to be financed from outside employment, or by drawing on accumulated capital, thus reducing the farmer's net worth. The average personal expenses were \$2525 per family.

The primary factors affecting labor earnings are (1) volume of business, (2) crop yields, (3) return for \$100 feed to productive livestock, (4) choice of crops, (5) amount of livestock per 100 acres, (6) work accomplished per worker and (7) control over expenses.

Volume of business, probably the most important single factor, can be increased in several ways. The addition of fertilizers to the soil, good seed and good cultural practices will produce larger crops. This in turn will permit the farmer to increase the amount of livestock maintained. In addition he has the possibility of purchasing feed in order to maintain more livestock. In some cases it is possible to rent or purchase more land and thereby add to the volume of business.

#### EXPLANATION OF "WORK UNITS"

The total "work units" for any one farm is a measure of the size of that farm business. A work unit as used in this report is the average accomplishment of a farm worker, in a ten-hour day, working on crops and productive livestock at average efficiency or ten hours of work off the farm for pay. The number of work units for each class of livestock and each acre of crop are presented in Table 1.

Table 1. Number of Work Units for Each Class of Livestock and Each Acre of Crop

Class of Livestock	No. of Work Units	Crop	No. of Work Units
Dairy and dual-purpose cows	10.0 per cow	Small grain	.7 per acre
Other dairy and 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	1.5 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

\* Animal unit represents 1 dairy cow or bull, 2 other dairy cattle,  $1\frac{1}{4}$  beef cows or bull, 1 feeder steer or heifer,  $3\frac{1}{3}$  other beef cattle, 7 sheep, 14 lambs,  $2\frac{1}{2}$  hogs, 5 pigs, 50 hens, or 1,100 pounds of turkeys produced.

Table 2. Summary of Farm Earnings (Cash Statement) 1956\*

Item	Ave. of 21 Farms	Farm Number				
		33	1	10	24	29
<u>Farm Receipts</u>						
1. Dairy cattle	\$ 808	\$2026	\$1116	\$ 800	\$1874	\$1205
2. Dairy products	6437	12405	9722	5281	7733	7259
3. Beef cattle	440	-	-	-	-	-
4. Hogs	310	250	-	-	1354	-
5. Sheep and wool	167	-	-	2552	-	-
6. Poultry	17	-	-	-	-	28
7. Eggs	220	-	-	-	445	115
8. Crops	435	2892	20	384	63	4188
9. Mach. and equipment sold	92	66	118	172	36	141
10. Income from work off the farm	232	1008	63	309	52	83
11. Miscellaneous	334	518	351	2658	484	544
12. Total farm sales	\$9488	\$19165	\$11390	\$12156	\$12041	\$13563
13. Increase in farm capital	883	1767	2820	1137	-	2385
14. Family living from the farm	243	372	309	411	232	268
15. Total farm receipts	\$10614	\$21304	\$14519	\$13704	\$12273	\$16216
<u>Farm Expenses</u>						
16. Dairy cattle bought	\$ 219	\$1010	-	\$ 520	\$ 385	-
17. Beef cattle bought	-	-	-	-	-	-
18. Hogs bought	17	-	-	-	-	-
19. Sheep bought	1	-	-	20	-	-
20. Poultry bought	10	15	-	-	-	-
21. Misc. livestock expenses	294	243	521	190	323	361
22. Feed bought	1462	32	1479	723	1003	463
23. Fertilizers	248	174	411	234	187	821
24. Other crop expenses	248	124	294	46	270	515
25. Custom work hired	477	236	896	633	451	698
26. Gas, oil, and grease (farm share)	527	1135	358	322	419	776
27. Rep. for tract., trucks, autos (f. share)	283	348	133	60	358	755
28. Rep. and upkeep farm real estate	134	10	198	510	138	222
29. Rep. and upkeep crop and gen. mach.	121	563	48	118	195	176
30. Rep. and upkeep livestock equip.	70	116	54	95	66	172
31. Wages of hired labor	358	2045	335	412	810	570
32. Electricity expense (farm share)	199	438	215	206	174	294
33. Real estate taxes	237	449	138	215	403	429
34. Personal property taxes	97	199	113	99	145	123
35. Insurance	68	319	92	16	38	132
36. Telephone and gen. farm expense	83	288	43	52	28	137
37. Total cash operating expense	\$5153	\$7744	\$5328	\$4471	\$5393	\$6644
38. Mechanical power bought (f. share)	371	2020	73	-	-	-
39. Crop and gen. machinery bought	346	504	-	-	185	1126
40. Livestock equipment bought	955	275	2236	427	60	2322
41. New real estate improvements	326	-	-	2021	200	487
42. Total farm purchases	\$7151	\$10543	\$7637	\$6919	\$5838	\$10579
43. Decrease in farm capital	-	-	-	-	853	-
44. Interest on farm capital	1101	2981	1239	822	1053	1519
45. Unpaid family labor	500	-	-	501	312	250
46. Board furnished hired labor	55	-	-	-	380	90
47. Total farm expenses	\$8807	\$13524	\$8876	\$8242	\$8436	\$12438
48. Labor earnings	\$1807	\$7780	\$5643	\$5462	\$3837	\$3778

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

Table 2. Summary of Farm Earnings (Cash Statement) 1956 (continued)

Item	Farm Number					
	22	21	9	3	2	5
<u>Farm Receipts</u>						
1. Dairy cattle	\$1246	\$2128	\$ 331	\$ 416	\$ 518	\$ 133
2. Dairy products	5759	6421	4455	6516	7292	1975
3. Beef cattle	-	-	-	-	-	-
4. Hogs	785	1478	-	-	-	-
5. Sheep and wool	-	-	958	-	-	-
6. Poultry	-	-	-	-	-	63
7. Eggs	-	-	-	33	-	50
8. Crops	120	98	203	114	59	-
9. Mach. and equip. sold	238	69	71	174	98	72
10. Income from work off farm	32	140	1576	217	303	172
11. Miscellaneous	127	49	200	305	204	82
12. Total farm sales	<u>\$8307</u>	<u>\$10383</u>	<u>\$7794</u>	<u>\$7775</u>	<u>\$8474</u>	<u>\$2547</u>
13. Increase in farm capital	1007	504	2660	4081	-	307
14. Family living from farm	286	274	258	400	131	322
15. Total farm receipts	<u>\$9600</u>	<u>\$11161</u>	<u>\$10712</u>	<u>\$12256</u>	<u>\$8605</u>	<u>\$3176</u>
<u>Farm Expenses</u>						
16. Dairy cattle bought	-	\$ 304	\$ 110	-	-	\$ 7
17. Beef cattle bought	-	-	-	-	-	-
18. Hogs bought	348	-	-	-	-	-
19. Sheep bought	-	-	-	-	-	-
20. Poultry bought	-	-	-	-	-	6
21. Misc. livestock expenses	428	175	274	267	459	75
22. Feed	619	1075	1506	863	1170	378
23. Fertilizers	375	168	237	189	258	-
24. Other crop expenses	182	337	181	195	70	53
25. Custom work hired	379	512	801	630	214	196
26. Gas, oil, grease (farm share)	382	392	405	421	609	302
27. Rep. tract., trucks, autos (f. share)	328	525	59	165	170	133
28. Rep. and upkeep farm real estate	2	33	10	98	136	-
29. Rep. and upkeep crop and gen. mach.	62	196	-	130	76	39
30. Rep. and upkeep livestock equip.	12	88	-	65	37	20
31. Wages of hired labor	136	320	-	-	145	-
32. Electricity expense (farm share)	119	174	97	262	200	6
33. Real estate taxes	409	555	62	119	91	70
34. Personal property taxes	148	134	76	67	74	30
35. Insurance	41	55	-	62	100	-
36. Telephone and gen. farm expense	68	82	61	69	66	15
37. Total cash operating expense	<u>\$4038</u>	<u>\$5125</u>	<u>\$3879</u>	<u>\$3602</u>	<u>\$3875</u>	<u>\$1330</u>
38. Mechanical power bought (f. share)	60	150	1259	-	-	80
39. Crop and gen. machinery bought	206	75	636	1374	-	130
40. Livestock equipment bought	-	-	801	2223	153	-
41. New real estate improvements	-	325	240	909	-	95
42. Total farm purchases	<u>\$4304</u>	<u>\$5675</u>	<u>\$6815</u>	<u>\$8108</u>	<u>\$4028</u>	<u>\$1635</u>
43. Decrease in farm capital	-	-	-	-	1813	-
44. Interest on farm capital	1114	1308	819	984	963	377
45. Unpaid family labor	562	750	625	750	625	187
46. Board furnished hired labor	48	77	-	13	-	-
47. Total farm expenses	<u>\$6028</u>	<u>\$7810</u>	<u>\$8259</u>	<u>\$9855</u>	<u>\$7429</u>	<u>\$2199</u>
48. Labor earnings	<u>\$3572</u>	<u>\$3351</u>	<u>\$2453</u>	<u>\$2401</u>	<u>\$1176</u>	<u>\$ 977</u>

Table 2. Summary of Farm Earnings (Cash Statement) 1956 (continued)

	Farm Number									
	6	30	11	15	19	17	13	8	25	18
1.	\$ 161	\$ 115	\$ 464	\$ 224	\$ 700	\$ 631	\$ 318	\$ 359	\$ 438	\$1688
2.	5583	2619	3153	9286	2338	9424	8093	3704	3034	13131
3.	-	-	-	-	9242	-	-	-	-	-
4.	-	-	-	-	-	-	-	586	878	1175
5.	-	-	-	-	-	-	-	-	-	-
6.	-	139	-	-	-	-	-	-	121	-
7.	-	2827	-	-	145	-	-	-	1001	-
8.	-	-	212	-	409	-	60	-	302	-
9.	39	4	65	68	29	23	184	78	48	40
10.	-	-	549	-	229	-	140	-	-	-
11.	193	68	256	422	102	420	67	65	-	-
12.	\$5976	\$5772	\$4699	\$10000	\$13194	\$10498	\$8862	\$4792	\$5822	\$16034
13.	1985	2413	1557	4220	-	-	2519	-	59	2437
14.	88	133	72	302	188	146	251	120	424	222
15.	\$8049	\$8318	\$6328	\$14423	\$13382	\$10644	\$11632	\$4912	\$6305	\$18693
16.	-	505	-	-	756	-	-	-	-	990
17.	-	-	-	-	-	-	-	-	-	-
18.	-	-	-	-	-	-	-	-	-	-
19.	-	-	-	-	-	-	-	-	-	-
20.	-	76	-	-	-	-	-	-	117	-
21.	40	175	133	464	339	382	256	22	219	839
22.	488	2319	1065	1648	716	2197	4826	246	471	7418
23.	141	217	179	760	126	23	57	-	83	570
24.	45	144	174	4114	236	1052	182	220	133	318
25.	484	170	438	941	354	7	573	169	370	865
26.	395	263	384	686	343	892	683	340	433	1135
27.	334	102	225	267	89	432	282	165	145	874
28.	-	27	197	145	19	489	55	196	147	185
29.	96	50	119	180	74	175	49	14	34	141
30.	-	37	44	99	83	111	62	67	24	212
31.	283	-	62	1035	66	164	416	80	3	629
32.	85	123	117	282	65	289	385	113	107	433
33.	182	40	115	187	528	93	250	240	347	58
34.	74	16	45	62	104	17	141	140	70	150
35.	47	10	56	207	80	-	-	75	70	20
36.	23	36	32	131	53	122	120	168	26	129
37.	\$2717	\$4310	\$3385	\$7538	\$4031	\$6445	\$8337	\$2255	\$2799	\$14966
38.	3403	-	300	267	-	-	-	175	-	-
39.	404	-	520	-	1017	-	-	20	488	560
40.	-	1846	26	4300	-	146	2530	-	24	2700
41.	-	250	1047	178	-	743	-	237	110	-
42.	\$6524	\$6406	\$5278	\$12283	\$5048	\$7334	\$10867	\$2687	\$3421	\$18226
43.	-	-	-	-	6916	2200	-	1524	-	-
44.	719	473	394	1332	1098	1053	1351	1005	957	1568
45.	-	751	-	-	312	625	-	749	3125	375
46.	-	-	-	456	15	-	-	-	-	76
47.	\$7243	\$7630	\$5672	\$14071	\$13389	\$11212	\$12218	\$5965	\$7503	\$20245
48.	806	688	656	352	- 7	- 568	- 586	-1053	-1198	-1552

Table 3. Summary of Farm Earnings (Enterprise statement) 1956

Items	Ave. of 21 farms	Farm Number										Total returns & net increases	Expenses and Net Decreases			
		33	1	10	24	29	22	21	9	3	2					
<b>Returns and Net Increases</b>																
Dairy & dual-purpose cows	\$6582	\$12714	\$11596	\$5246	\$7446	\$7511	\$5920	\$6906	\$4935	\$6089	\$7458	\$2088				
Other dairy & dual-pur. cattle	1294	2565	1469	1698	1168	1347	1986	2335	955	1818	820	558				
Feeder cattle	119	-	-	-	-	-	-	-	-	-	-	-				
Hogs	295	69	-	-	1445	-	944	1400	-	-	-	-				
Sheep--farm flock	72	-	-	1353	-	-	-	-	163	-	-	-				
Chickens	235	5	-	-	408	92	-	-	-	43	-	269				
All productive livestock	\$8597	\$15353	\$13065	\$8297	\$10467	\$8950	\$8850	\$10641	\$6053	\$7950	\$8278	\$2915				
Value of feed fed	4279	6817	5000	3187	3806	3820	3763	6395	3730	3200	4829	1719				
Livestock return over feed	\$4318	\$8536	\$8065	\$5110	\$6661	\$5130	\$5087	\$4246	\$2323	\$4750	\$3449	\$1196				
Crops, seed and feed	2672	9352	2831	2320	3225	6205	3488	5305	2393	2054	2710	1222				
Income from labor off farm	191	789	63	309	52	84	8	35	1465	85	303	171				
Miscellaneous	315	518	351	2281	374	544	128	49	200	305	206	82				
<b>Total returns &amp; net increases</b>	\$7496	\$19195	\$11310	\$10020	\$10312	\$11963	\$8711	\$9635	\$6381	\$7194	\$6668	\$2671				
<b>Expenses and Net Decreases</b>																
Horses	4	-	-	-	64	-	-	40	-	-	-98	10				
Truck and auto (farm share)	615	1325	435	118	749	55	1129	472	427	352	376	267				
Tractor	574	1034	438	284	415	1739	346	659	338	338	831	235				
Elec. & gas eng. exp. (f. share)	211	438	287	219	179	386	125	174	98	263	200	21				
Hired power	257	106	483	364	162	412	151	299	396	383	62	123				
Total power	\$1661	\$2903	\$1643	\$ 985	\$1569	\$2592	\$1751	\$1644	\$1259	\$1336	\$1371	\$ 656				
Crop and general machinery	477	1295	599	262	540	864	110	439	82	324	474	109				
Livestock equipment	180	292	175	107	140	410	31	108	106	202	232	44				
Buildings, fences, etc.	402	337	434	653	602	448	174	435	213	365	836	60				
Misc. prod. livestock exp.	294	243	521	190	323	361	428	175	274	267	459	75				
Labor	1089	2109	670	1157	1633	1170	865	1349	976	998	826	258				
Pers. prop. & real est. taxes	334	648	251	314	548	552	557	689	138	186	165	100				
General farm & insurance	151	607	135	68	67	269	109	137	61	131	166	15				
Interest on farm capital	1101	2981	1239	822	1053	1519	1114	1308	819	984	963	377				
<b>Total exp. &amp; net decreases</b>	\$5689	\$11415	\$5667	\$4558	\$6475	\$8185	\$5139	\$6284	\$3928	\$4793	\$5492	\$1694				
<b>Labor earnings</b>	\$1807	\$7780	\$5643	\$5462	\$3837	\$3778	\$3572	\$3351	\$2453	\$2401	\$1176	\$ 977				



Table 3. Summary of Farm Earnings (Enterprise Statement) 1956\* (continued)

Items	Farm Number									
	6	30	11	15	19	17	13	8	25	18
<b>Returns and Net Increases</b>										
Dairy and dual-purpose cows	\$5342	\$2677	\$3354	\$8992	\$2576	\$9463	\$7709	\$3706	\$4058	\$12469
Other dairy & dual-purpose cattle	344	904	381	1464	462	1035	1320	528	877	3135
Feeder cattle	-	-	-	-	-	-	-	-	-	-
Hogs	-	-	-	-	2501	-	-	586	835	905
Sheep--farm flock	-	-	-	-	-	-	-	-	-	-
Chickens	-	2902	2	-	80	-	-	-	1139	-
All productive livestock	\$5686	\$6483	\$3737	\$10456	\$5619	\$10498	\$9029	\$4820	\$6909	\$16509
Value of feed fed	3762	3154	2259	4542	2505	4698	5458	3279	4659	9300
Livestock return over feed	\$1924	\$3329	\$1478	\$5914	\$3114	\$5800	\$3571	\$1541	\$2250	\$7209
Crops, seed and feed	2444	582	1089	2121	1445	-188	1654	1628	2870	1370
Income from labor off farm	-	-	438	-	79	-	141	-	-	-
Miscellaneous	193	68	255	423	102	420	67	65	-	-
<b>Total returns &amp; net increases</b>	\$4561	\$3979	\$3260	\$8458	\$4740	\$6032	\$5433	\$3234	\$5120	\$8579
<b>Expenses and Net Decreases</b>										
Horses	-	-	-	-	-	-	-	-	77	-
Truck and auto (farm share)	753	288	550	1022	234	988	604	355	201	1681
Tractor	677	370	167	580	463	749	730	549	425	1232
Elec. and gas eng. exp. (farm share)	86	133	116	282	65	291	394	114	110	444
Hired power	227	76	232	590	212	8	344	51	197	520
Total power	\$1743	\$ 867	\$1065	\$2474	\$ 974	\$2036	\$2072	\$1069	\$1010	\$3877
Crop and general machinery	373	314	218	702	483	1000	431	246	247	907
Livestock equipment	23	228	50	186	86	485	130	68	56	605
Buildings, fences, etc.	81	325	275	520	467	624	623	376	51	552
Misc. procd. livestock expenses	40	175	133	464	339	382	256	22	219	839
Labor	450	807	221	1841	535	788	645	878	3264	1426
Pers. prop. and real estate taxes	256	56	160	249	632	110	391	380	418	208
General farm and insurance	70	46	88	338	133	122	120	243	96	149
Interest on farm capital	719	473	394	1332	1098	1053	1351	1005	957	1568
<b>Total expenses and net decreases</b>	\$3755	\$3291	\$2604	\$8106	\$4747	\$6600	\$6019	\$4287	\$6318	\$10131
<b>Labor earnings</b>	\$ 806	\$ 688	\$ 656	\$ 352	\$ - 7	\$ -568	\$ -586	\$ -1053	\$ -1198	\$ -1552

\* Cash receipts and expenses are adjusted for changes in inventory for each enterprise and for each item of expense in order to show total receipts and net increases and total expenses and net decreases. The operator's labor earnings are the same as those on pages 3 to 5.

Table 4. Summary of Farm Inventories, 1956

Items	Ave. of 21 farms	Farm Number																			
		33	1	10	24	29	22	21	9	3	2	33	1	10	24	29	22	21	9	3	2
Size of farm (acres)	275	319	260	340	160	365	256	300	196	160	205	380	414	322	406	495	430	492	436	259	378
Size of business (work units)*																					
Dairy and dual purpose cattle	\$4293	\$7000	\$3090	\$3025	\$3640	\$1880	\$2800	\$2518	\$2058	\$4000	\$2945	600	1990	2013	1650	1163	1800	1588	2115	1722	915
Other livestock												32	-	-	273	-	-	6	-	-	-
Horses												1872	8323	2042	1799	2119	1547	2322	840	1472	1483
Crop, seed and feed												881	1763	1650	827	498	1029	1156	778	874	450
Auto (farm share)												1035	2525	896	817	1666	1240	191	832	945	2187
Tractors												2032	4947	3031	775	5942	1401	1777	665	785	1452
Crop and general machinery												426	1356	244	416	284	187	69	215	46	541
Livestock equipment and supplies												5872	22000	8000	4000	9840	6484	15200	3000	3400	3800
Land												4540	8551	2427	7282	5794	5296	1077	4548	4402	6390
Buildings, fences, etc.																					
Total farm capital	\$21583	\$58746	\$23370	\$15882	\$21479	\$29186	\$21784	\$25904	\$15051	\$17646	\$20163										

Items	Ave. of 21 farms	Farm Number																			
		5	6	30	11	15	19	17	13	8	25	18	5	6	30	11	15	19	17	13	8
Size of farm (acres)	150	150	95	143	440	993	157	390	265	202	355	198	298	198	382	269	354	449	320	365	568
Size of business (work units)*																					
Dairy and dual purpose cattle	\$1339	\$3834	\$ 925	\$1024	\$3525	\$1799	\$3450	\$4690	\$5095	\$2250	\$7510	596	430	720	1305	7281	1050	1385	345	1481	1685
Other livestock												124	-	-	-	100	-	75	-	-	-
Horses												790	1635	610	1380	1486	2280	1438	1915	2072	912
Crop, seed and feed												77	572	464	1500	300	1788	819	1450	140	2034
Auto (farm share)												502	440	704	392	1558	1388	1640	1314	378	1384
Tractors												437	973	504	3982	1309	3922	2434	1717	941	3653
Crop and general machinery												139	405	16	383	30	1196	234	3	301	1950
Livestock equipment and supplies												1500	2500	1750	6500	3600	2950	4000	6598	7515	5630
Land												1880	2595	1528	5572	7955	4135	9046	2425	4031	5380
Buildings, fences, etc.																					
Total farm capital	\$7384	\$13384	\$8266	\$7093	\$24539	\$25418	\$22159	\$25761	\$20862	\$19109	\$30138										

\* See page 2 for an explanation of work units.







Table 6. Net Worth Statement for Those Farmers Who Kept a Record of All Assets and Liabilities (Operator's Share) 1956

Items	Twelve Owner-operators												
	Average	33	1	24	29	3	2	30	11	8	6	19	13
Total acres in farm	287	319	240	160	365	160	205	80	120	265	150	993	390
Farm Capital	\$22615	\$58746	\$23370	\$21479	\$28886	\$17646	\$20163	\$8266	\$7093	\$20862	\$13384	\$25418	\$25761
Cash on hand	234	400	68	340	337	171	21	-	415	600	*	179	275
Stocks, bonds & life ins.	2074	20450	-	1100	388	-	677	-	175	357	575	-	1169
Household goods & cloth.	1467	*	2500	*	2000	2500	*	2000	700	1800	3000	1850	1250
Pers. share of auto	297	245	550	730	98	87	250	110	464	330	384	80	234
Farm dwelling	2060	*	3200	2000	6896	**	1900	**	1750	**	4500	1600	2874
Other non-farm assets	613	600	1504	500	-	-	1318	-	1215	23	-	2200	-
Total non-farm assets	\$6745	\$21695	\$7822	\$4670	\$9719	\$2758	\$4166	\$2110	\$4719	\$3110	\$8459	\$5909	\$5802
Total assets	29360	80441	31192	26149	38605	20404	24329	10376	11812	23972	21843	31327	31563
Real estate mortgages	3510	-	6000	-	8190	-	3462	-	4500	2260	6000	8067	3640
Chattel mortgages	1693	-	1692	850	500	-	850	-	872	1104	1444	9000	4000
Notes payable	733	-	-	-	1700	250	2280	1435	634	-	-	-	2500
Accounts payable	229	-	170	-	737	230	416	-	-	616	-	-	577
Total liabilities	\$6165	-	\$7862	\$ 850	\$11127	\$ 480	\$7008	\$11435	\$6006	\$3980	\$7444	\$17067	\$10717
Net worth	\$23195	\$80441	\$23330	\$25299	\$27478	\$19924	\$17321	\$8941	\$5806	\$19992	\$14399	\$14260	\$20846
Farm Capital	\$23316	\$60513	\$26190	\$20626	\$31570	\$21728	\$18351	\$10680	\$8650	\$19338	\$15369	\$18502	\$28280
Cash on hand	346	700	148	894	193	124	99	600	600	100	*	106	585
Stocks, bonds & life ins.	2392	24000	-	1100	899	5	327	-	175	400	600	-	1196
Household goods & cloth.	1513	*	2800	*	2000	2500	*	2050	700	2050	3100	1700	1250
Pers. share of auto	286	605	470	594	66	76	200	68	404	275	421	62	195
Farm dwelling	2125	*	3100	1800	6708	**	1750	**	2870	**	4950	1520	2801
Other non-farm assets	633	600	1895	500	-	-	1472	-	915	23	-	2200	-
Total non-farm assets	\$7295	\$25905	\$8413	\$4888	\$9866	\$2705	\$3848	\$2718	\$5664	\$2848	\$9071	\$5588	\$6027
Total assets	30611	86418	34603	25514	41436	24433	22199	13398	14314	22186	24440	24090	34307
Real estate mortgages	3416	-	6000	-	7770	-	2864	-	4500	1990	5600	8067	4200
Chattel mortgages	1304	-	635	-	4400	-	550	-	1272	660	2100	2500	7930
Notes payable	1468	-	2160	-	1422	1422	2280	4354	500	-	-	-	2500
Accounts payable	171	-	474	-	303	24	411	54	-	183	-	75	529
Total liabilities	\$6359	-	\$9269	*	\$12473	\$1446	\$6105	\$4408	\$6272	\$2838	\$7700	\$10642	\$15159
Net Worth	24252	86418	25334	25514	28963	22987	16094	8990	8042	19348	16740	13448	19148
Change in Net Worth	+1057	+5977	+2004	+215	+1485	+3063	-1227	+49	+2236	-644	+2341	-812	-1698

\* Information not reported

\*\* Depreciated in full

Table 6. Net Worth Statement for Those Farmers Who Kept a Record of All Assets and Liabilities (Operator's share) 1956 (continued)

Items	Six Part-owners or Renters					
	10	22	9	5	17	15
Total acres in farm	340	256	196	150	157	440
Total acres owned	180	160	160	0	127	400
	January 1					
Farm Capital	\$14882	\$20884	\$14052	\$3655	\$21409	\$23039
Cash on hand	38	40	150	555	500	301
Stocks, bonds and life insurance	75	250	38	-	1000	410
Household goods and clothing	1800	1595	1000	950	800	2000
Personal share of auto	-	142	148	8	-	425
Farm dwelling	420	2334	2237	1052	2500	*
Other non-farm assets	405	-	125	-	-	181
Total non-farm assets	\$2828	\$4361	\$3698	\$2565	\$4800	\$3317
Total assets	17710	25245	17750	6220	26209	26356
Real estate mortgages	3000	3300	-	-	2400	21068
Chattel mortgages	3750	3982	-	-	4100	1258
Notes payable	275	2225	-	-	-	488
Accounts payable	196	880	60	587	-	2128
Total liabilities	\$7221	\$10387	\$ 60	\$ 587	\$6500	\$24942
Net Worth	10489	14858	17690	5633	19709	1414
	December 31					
Farm Capital	\$16019	\$21892	\$16712	\$3892	\$19209	\$27259
Cash on hand	400	40	750	183	966	-
Stocks, bonds and life insurance	75	403	125	-	1000	441
Household goods and clothing	2000	1975	1500	1100	800	2800
Personal share of auto	-	1180	96	8	-	325
Farm dwelling	360	2250	2203	1030	2542	*
Other non-farm assets	495	-	-	-	-	287
Total non-farm assets	\$3330	\$5848	\$4674	\$2321	\$5308	\$3853
Total assets	19349	27740	21386	6213	24517	31112
Real estate mortgages	2380	3100	-	-	1200	21852
Chattel mortgages	3150	4736	-	-	5100	2820
Notes payable	275	2177	-	-	-	488
Accounts payable	222	1823	708	487	-	2382
Total liabilities	\$6027	\$11836	\$ 708	\$ 487	\$6300	\$27542
Net Worth	13322	15904	20678	5726	18217	3570
Change in net worth	+2833	+1046	+2988	+ 93	-1492	+2156

\* Information not reported

Table 7. Household and Personal Expenses for Those Farmers Who Kept Accounts of These Expenses, 1956

Items	Ave. of		Farm Number					
	15 farms	18	10	24	29	9	22	3
Number of persons--family	5.4	5.0	7.0	3.0	5.0	6.0	6.0	6.0
Number of adult equivalent--family	3.8	3.4	5.0	2.7	3.2	5.1	4.0	4.6
other*	.1	.2	-	.8	.2	-	.1	-
<b>Expenses</b>								
Food and meals bought	\$839	\$1411	\$580	\$598	\$605	\$1011	\$674	\$867
Operating and supplies	103	99	57	58	72	111	201	98
Furnishings and equipment	266	90	266	568	484	484	425	696
Clothing and clothing materials	220	233	222	194	178	348	318	364
Personal care and spending	69	20	27	98	68	98	40	92
Education and recreation	150	69	230	394	80	332	303	170
Gifts and special events	124	78	49	295	458	24	117	130
Medical and hospital insurance	229	82	207	139	149	207	515	418
Church and welfare	77	-	64	313	107	-	234	16
Personal share of auto expense	82	78	30	233	100	64	32	27
Upkeep on dwelling	38	-	20	-	-	-	6	6
Personal share of tel. and elect. expense	80	131	61	128	109	104	57	39
Total cash living expense	\$2277	\$2291	\$1813	\$3018	\$2410	\$2783	\$2922	\$2923
Personal share of new autos	5	-	-	-	-	-	60	-
New dwelling	96	-	-	-	-	-	-	-
Taxes	36	-	117	-	96	-	7	44
Life insurance	74	73	-	-	209	122	194	-
Other savings and investments	37	-	-	-	375	-	173	5
Total household & pers. cash expense	\$2525	\$2364	\$1930	\$3018	\$3090	\$2905	\$3356	\$2972
Family living from the farm	249	222	410	232	268	258	286	399
Total cash expenses and perquisites	\$2774	\$2586	\$2340	\$3250	\$3358	\$3163	\$3642	\$3371
<b>Receipts</b>								
Return to capital and family labor	1828	137	6366	5174	5006	3912	4242	4012
Other personal income	699	8000	807	-	-	815	-	118
Total income	\$2527	\$8137	\$7173	\$5174	\$5006	\$4727	\$4242	\$4130

\* Hired help or others boarded



Table 7. Household and Personal Expenses for Those Farmers Who Kept Accounts of These Expenses, 1956  
(continued)

Items	Farm Number							
	11	2	25	5	17	19	8	13
Number of persons--family	5.0	6.5	8.0	5.2	7.0	4.6	2.0	5.0
Number of adult equivalent--family	3.4	4.5	5.8	3.1	4.2	2.8	1.8	3.8
other	-	-	-	-	-	-	-	-
<b>Expenses</b>								
Food and meals bought	\$565	\$1203	\$805	\$608	\$1303	\$416	\$631	\$1312
Operating and supplies	76	45	60	76	125	62	328	82
Furnishings and equipment	156	272	194	60	-	1	248	35
Clothing and clothing materials	230	237	240	95	74	142	154	277
Personal care and spending	94	56	11	52	245	20	26	91
Education and recreation	191	163	91	53	10	13	3	153
Gifts and special events	62	158	11	98	165	29	132	44
Medical and hospital insurance	162	420	108	175	262	176	113	307
Church and welfare	20	78	96	30	-	128	59	1
Personal share of auto expense	244	116	38	49	-	34	30	146
Upkeep on dwelling	162	-	-	93	254	-	33	-
Personal share tel. and elect. expense	63	79	32	78	140	31	43	106
Total cash living expense	\$2025	\$2827	\$1686	\$1467	\$2578	\$1052	\$1800	\$2554
Personal share of new autos	-	-	-	12	-	-	-	-
New dwelling	1200	-	235	-	-	-	-	-
Taxes	137	48	69	6	6	5	9	-
Life insurance	43	251	-	105	-	36	43	51
Other savings and investments	-	-	-	1	-	-	-	-
Total household & pers. cash expense	\$3405	\$3126	\$1990	\$1591	\$2584	\$1093	\$1852	\$2605
Family living from the farm	73	130	423	324	146	188	120	251
Total cash expenses and perquisites	\$3478	\$3256	\$2413	\$1915	\$2730	\$1281	\$1972	\$2856
<b>Receipts</b>								
Return to capital and family labor	798	2517	2592	1267	835	591	684	256
Income from outside investments	-	-	-	-	-	-	-	-
Other personal income	2713	278	-	973	749	235	-	-
Total income	\$3511	\$2795	\$2592	\$2240	\$1584	\$ 826	\$ 684	\$ 256

Table 8. Family Living from the Farm, 1956

Items	Ave. of											Farm Number										
	21 farms			33	1	10	24	29	22	21	9	3	2	21			22	29	3080	2202	1440	
No. of adult equivalents:																						
Family	3.8	4.8	4.9	4.9	5.0	2.7	3.2	4.0	2.8	5.1	4.6	4.5			4.0	.1	3.2	5.1	4.6	4.5	-	
Other*	.1	-	-	-	-	.8	.2	.1	-	-	-	-			.1		.2	-	-	-	-	
Whole milk	1885	3600	3600	2900	659	1396	1501	1680	3080	2202	1440				1680	3080	2202	1440				
Cream	13	-	96	-	118	-	-	-	-	-	-				-	-	-	-	-	-	-	
Cattle	492	1100	600	1525	900	1000	600	1264	125	612	1000				1264	125	612	1000				
Hogs	90	-	-	-	236	-	840	575	-	-	-				575	-	-	-	-	-	-	
Sheep	6	-	-	120	-	-	-	-	-	-	-				-	-	-	-	-	-	-	
Poultry	53	60	-	-	-	70	-	-	-	400	-				-	-	400	-	-	-	-	
Eggs	42	-	-	-	95	105	-	-	-	-	-				-	-	-	-	-	-	-	
Total value	\$243	\$372	\$309	\$410	\$232	\$268	\$286	\$274	\$258	\$399	\$130				\$274	\$258	\$399	\$130				

Items	Ave. of											Farm Number										
	21 farms			33	1	10	24	29	22	21	9	3	2	21			22	29	3080 <th>2202 <th>1440</th> </th>	2202 <th>1440</th>	1440	
No. of adult equivalents:																						
Family	3.1	3.5	2.2	3.4	3.5	1.0	2.8	4.2	3.8	1.8	5.8	3.4			4.2	-	2.8	1.8	5.8	3.4	.2	
Other*	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	
Whole milk	1420	1078	1100	1140	1890	1380	1460	2190	720	2928	2220				2190	720	2928	2220				
Cream	-	-	-	-	-	-	-	52	-	-	-				52	-	-	-	-	-	-	
Cattle	125	-	-	-	400	-	-	700	-	500	-				700	-	500	-	-	-	-	
Hogs	-	-	-	-	-	-	-	-	-	240	-				-	-	240	-	-	-	-	
Sheep	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	
Poultry	364	-	60	-	-	156	-	-	-	-	-				-	-	-	-	-	-	-	
Eggs	121	-	100	4	-	67	-	-	-	387	-				-	-	387	-	-	-	-	
Total value	\$324	\$ 88	\$133	\$ 73	\$203	\$188	\$146	\$251	\$120	\$423	\$222				\$251	\$120	\$423	\$222				

\* Hired help or others boarded

Table 9. Power and Machinery Expenses per Crop Acre, 1956

Items	Ave. of 21 farms	Farm Number									
		33	1	10	24	29	22	21	9	3	2
Crop acres per farm	96	176	149	58	107	217	100	128	54	45	100
Tractor and horse expense per crop acre	\$6.61	\$5.89	\$2.94	\$4.86	\$4.51	\$5.56	\$3.46	\$6.24	\$6.26	\$7.61	\$7.33
Crop and general machinery per crop acre	\$5.48	\$7.38	\$4.02	\$4.51	\$5.07	\$3.99	\$1.10	\$3.43	\$1.52	\$7.30	\$4.73

Items	5	Farm Number									
		6	30	11	15	19	17	13	8	25	18
Crop acres per farm	55	60	47	24	105	33	87	123	108	123	120
Tractor and horse expense per crop acre	\$4.44	\$11.29	\$7.87	\$6.96	\$5.52	\$14.02	\$8.61	\$5.93	\$5.09	\$4.08	\$10.27
Crop and general machinery per crop acre	\$1.98	\$6.21	\$6.68	\$9.04	\$6.69	\$14.64	\$11.49	\$3.50	\$2.29	\$2.01	\$7.56

Table 10. Measures of Farm Organization and Management Efficiency, 1956

	Farm Number									
	33	1	10	24	29	22	21	9	3	2
Ave. of 21 farms	\$1807	\$5643	\$5462	\$3837	\$3778	\$3572	\$3351	\$2453	\$2401	\$1176
Labor earnings	100	114	58	98	81	100	124	101	162	85
Crop yields*	28.8	34.4	4.4	48.0	47.0	53.2	55.7	22.1	35.2	46.0
Percent tillable in high return crops**	100	109	125	143	112	119	83	87	119	84
Return for \$100 feed to prod. livestock***	26.2	29.8	24.9	30.3	14.0	37.7	18.3	33.4	26.3	20.8
Productive livestock units per 100 acres****	380	728	414	406	495	430	492	436	259	378
Size of business--work units	256	364	276	254	381	287	273	311	173	270
Work units per worker										
Power, mach., equip, & bldg. expense per work unit	\$7.14	\$6.63	\$6.89	\$7.02	\$8.72	\$4.80	\$5.34	\$3.81	\$8.60	\$7.70

Items related to some of above measures:

Index of return for \$100 feed from:	100	109	125	122	151	114	127	73	89	119	84
Dairy cattle (see pp. 24-27)	100	-	-	-	112	-	73	182	-	-	-
Hogs (see p. 23)	100	-	122	-	-	-	-	-	78	-	-
Sheep	100	-	-	-	133	54	-	-	-	-	-
Chickens (see p. 28)	39.9	60.8	41.3	37.2	46.0	37.8	46.8	51.6	43.8	27.3	32.2
Number of animal units	84	165	92	68	99	201	113	127	39	43	86
Work units on crops	277	484	316	223	302	286	316	361	250	207	262
Work units on prod. livestock	19	79	6	31	5	8	1	4	147	9	30
Other work units	1.3	1.0	1.5	1.3	1.2	1.2	1.4	1.5	1.4	1.5	1.4
Number of family workers	1.2	1.0	1.5	1.3	1.2	1.2	1.4	1.5	1.4	1.5	1.4
Number of hired workers	1.5	2.0	1.5	1.3	1.6	1.3	1.5	1.8	1.4	1.5	1.4
Total number of workers	\$4.34	\$3.99	\$3.97	\$3.06	\$3.86	\$5.24	\$4.07	\$3.34	\$2.89	\$5.16	\$3.63
Power expense per work unit	1.23	1.78	1.44	.81	1.33	1.75	.26	.89	.19	1.25	1.25
Crop mach. exp. per work unit	.46	.40	.42	.33	.35	.83	.07	.22	.24	.78	.61
Livestock equip. exp. per w. u.	1.11	.46	1.06	2.03	1.48	.90	.40	.89	.49	1.41	2.21
Bldgs. & fencing exp. per w. u.											

\* Given as a percentage

\*\* Crops are marked in Table 11 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 percent of tillable land in high return crops.

Table 10. Measures of Farm Organization and Management Efficiency, 1956 (continued)

Items	Farm Number										
	5	6	30	11	15	19	17	13	8	25	18
Labor earnings	\$977	\$806	\$688	\$656	\$352	\$ -7	\$-568	\$-586	\$-1053	\$-1198	\$-1552
Crop yields*	118	96	98	185	99	148	47	109	96	76	44
Percent tillable in high return crops**	38.7	32.8	7.4	30.8	24.8	5.0	40.1	4.2	20.3	40.2	7.8
Return for \$100 feed to prod. livestock***	75	72	118	79	109	106	106	78	74	78	85
Productive livestock units per 100 acres****	17.1	31.3	40.0	37.0	27.8	21.7	26.1	25.0	18.5	23.1	26.2
Size of business--work units	198	298	219	198	382	269	354	449	320	365	568
Work units per worker	180	248	146	198	255	192	208	408	200	118	379
Power, mach., equip., & bldg. exp. per work unit	\$4.38	\$7.45	\$7.91	\$8.12	\$10.16	\$7.47	\$11.70	\$7.25	\$5.50	\$3.74	\$10.46
Items related to some of above measures:											
Index of return for \$100 feed from:											
Dairy cattle (see pp. 24-27)	75	72	110	79	109	124	106	78	73	73	87
Hogs (see p. 23)	-	-	-	-	-	-	-	-	81	92	59
Sheep	-	-	-	-	-	-	-	-	-	-	-
Chickens (see p. 28)	-	-	134	-	-	97	-	-	-	82	-
Number of animal units	19.2	27.2	23.2	17.4	38.4	79.2	34.2	44.5	29.3	39.1	61.1
Work units on crops	40	62	32	22	86	26	81	81	84	110	106
Work units on prod. livestock	141	236	187	132	296	235	273	354	236	255	462
Other work units	17	-	-	44	-	8	-	14	-	-	-
Number of family workers	1.1	.7	1.5	1.0	.5	1.2	1.4	.9	1.5	3.1	1.3
Number of hired workers	-	.5	-	-	1.0	.2	.3	.2	.1	-	.2
Total number of workers	1.1	1.2	1.5	1.0	1.5	1.4	1.7	1.1	1.6	3.1	1.5
Power expense per work unit	\$3.31	\$5.85	\$3.96	\$5.38	\$6.48	\$3.61	\$5.75	\$4.61	\$3.34	\$2.77	\$6.82
Crop mach. exp. per work unit	.55	1.25	1.43	1.10	1.84	1.80	2.82	.96	.77	.68	1.60
Livestock equip. exp. per w. u.	.22	.08	1.04	.25	.48	.32	1.37	.29	.21	.15	1.07
Bldgs. & fencing exp. per w. u.	.30	.27	1.48	1.39	1.36	1.74	1.76	1.39	1.18	.14	.97

\*\*\* An index weighted by the animal units of livestock.

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

Table 11. Distribution of Acres in Farm, 1956

Crop	Crop Rating	Ave. of 21 farms	Farm Number										
			33	1	10	24	29	22	21	9	3	2	
Oats	C	13	47	26	-	27	36	-	34	-	-	6	16
Other small grain & peas		2	49	26	-	27	49	-	34	-	-	6	16
Total small grains & peas		15	47	26	-	27	85	-	34	-	-	6	20
Corn grain	C	9	46	-	25	43	-	21	-	-	-	-	-
Corn silage	C	6	16	-	2	17	-	11	-	-	5	80	-
Other cultivated crops		-	62	-	-	60	-	32	-	-	-	-	-
Total cultivated crops		15	62	-	27	60	-	32	-	-	5	80	-
Alfalfa & alfalfa mix hay	A	14	32	-	31	56	-	55	-	12	-	-	-
Red clover hay	B	15	-	-	14	-	-	-	-	-	25	-	-
Timothy and brome hay	D	3	23	-	-	-	-	-	-	-	-	-	-
Other hay	D	20	12	108	4	-	-	-	-	36	-	-	-
Oat and oat mix silage	C	9	67	108	49	56	-	6	-	6	9	-	-
Total till. land in hay		61	67	108	49	56	-	61	-	54	34	-	-
Alfalfa & alfalfa mix. pasture	A	3	-	-	-	28	-	-	-	-	-	-	-
Red clover pasture	C	1	-	-	-	-	-	-	-	-	15	-	-
Timothy pasture	D	-	-	-	-	-	-	-	-	-	-	-	-
Other pasture	D	11	-	-	4	-	-	4	-	7	-	-	-
Total till. land in past.		15	-	-	4	28	-	4	-	7	15	-	-
Tillable land not cropped	D	2	-	-	-	-	-	-	-	-	-	-	-
Total tillable land		108	176	134	107	229	-	131	-	61	60	-	100
Wild hay		3	-	-	4	15	-	1	-	-	-	-	-
Non-tillable pasture		52	28	32	41	26	-	150	-	70	44	-	55
Timber not pastured		77	55	15	-	40	-	-	-	50	43	-	47
Roads and waste		30	60	56	5	50	-	8	-	13	10	-	-
Farmstead		5	-	3	3	5	-	10	-	2	3	-	3
Total acres in farm		275	319	240	160	365	-	300	-	196	160	-	205
Percent land tillable		29.6	55.2	55.8	66.9	62.7	-	43.7	-	31.1	37.5	-	48.8
Percent tillable land in high return crops		30.0	34.4	4.4	48.0	47.0	-	55.7	-	22.1	35.2	-	46.0

\* A, B, C and D refer to ranking used in calculating percent of tillable land in high return crops.

Table 11. Distribution of Acres in Farm, 1956 (continued)

Crop	Crop Rating	Farm Number													
		5	6	30	11	15	19	17	13	8	25	18			
Oats	C	-	15	-	-	-	-	-	-	-	-	-	15	45	-
Other small grain and peas		-	15	-	-	-	-	-	-	-	-	-	15	45	-
<b>Total small grain &amp; peas</b>		-	15	-	-	-	-	-	-	-	-	-	15	45	-
Corn grain	C	-	4	-	-	-	-	-	-	-	-	-	8	11	-
Corn silage	C	-	14	-	-	-	-	-	-	-	-	-	-	12	20
Other cultivated crops		-	-	-	-	-	-	-	-	-	1	-	-	-	-
<b>Total cultivated crops</b>		-	18	-	-	-	-	-	-	-	1	-	8	23	20
Alfalfa & alfalfa mix hay	A	17	-	-	-	-	-	-	-	-	-	40	-	18	-
Red clover hay	B	-	24	-	24	45	-	-	-	-	-	-	-	37	19
Timothy and brome hay	D	38	3	-	-	-	-	-	-	-	-	-	-	18	-
Other hay	D	-	-	18	-	28	-	-	-	27	-	-	11	-	60
Oat and oat mix silage	C	-	-	14	-	32	-	-	-	5	42	-	7	-	40
<b>Total till. land in hay</b>		55	27	32	24	105	-	-	-	32	82	-	55	55	100
Alfalfa & alfalfa mix. past.	A	7	-	-	-	-	-	-	-	-	-	-	-	8	-
Red clover pasture	C	-	7	-	-	-	-	-	-	-	-	-	-	-	-
Timothy pasture	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other pasture	D	-	-	-	15	10	-	-	-	7	44	-	-	-	73
<b>Total till. land in past.</b>		7	7	-	15	10	-	-	-	7	44	-	-	8	73
Tillable land not cropped	D	62	67	32	39	123	8	-	-	40	126	-	15	131	193
<b>Total tillable land</b>		62	67	32	39	123	8	-	-	40	126	-	15	131	193
Wild hay		-	-	-	-	-	-	-	-	-	5	-	30	-	-
Non-tillable pasture		50	20	11	8	15	-	-	-	325	-	40	-	38	40
Timber not pastured		19	6	35	-	282	-	-	-	580	20	187	10	-	117
Roads and waste		15	54	-	71	16	-	-	-	43	4	15	97	30	-
Farmstead		4	3	2	2	4	-	-	-	5	2	10	-	3	5
<b>Total acres in farm</b>		150	150	80	120	440	8	-	-	993	157	390	265	202	355
Percent land tillable		41.3	44.7	40.0	32.5	28.0	-	-	-	4.0	80.3	35.4	48.3	64.9	54.4
Percent tillable land in high return crops		38.7	32.8	7.4	30.8	24.8	-	-	-	5.0	40.1	4.2	20.3	40.2	7.8

Table 12. Crop Yields per Acre, 1956

Crop	Ave. of farms raising each crop	Farm Number																					
		33	1	10	24	29	22	21	9	3	2	5	6	30	11	15	19	17	13	8	25	18	
Oats	bu.	51.2	51.9	-	58.4	10.0	-	55.6	-	81.3	52.7												
Corn grain	bu.	45.1	41.7	-	70.8	49.3	46.9	39.4	-	-	-												
Oat and oat mix silage	tons	5.9	-	-	-	-	3.3	9.3	6.2	6.1	-												
Corn silage	tons	6.9	11.0	4.8	-	7.0	5.6	13.6	-	3.6	-												
Alfalfa hay	tons	2.3	3.1	-	1.6	1.5	3.0	2.8	1.8	-	-												
Red clover hay	tons	2.8	3.0	2.3	.9	-	-	-	-	5.9	2.3												
Timothy and brome hay	tons	.9	1.0	-	-	-	-	-	-	-	-												
Wild hay	tons	-	-	-	-	.7	1.7	-	-	-	-												
Other hay	tons	1.4	2.0	.9	1.5	-	-	-	1.7	-	-												

  

Crop	Farm Number	Farm Number															
		5	6	30	11	15	19	17	13	8	25	18					
Oats	bu.	-	38.8	-	-	-	-	-	-	75.0	28.7	-					
Corn grain	bu.	-	40.0	-	-	-	-	-	-	37.5	35.9	-					
Oat and oat mix silage	tons	-	-	5.0	-	6.1	8.0	2.5	7.0	8.0	-	3.0					
Corn silage	tons	-	5.7	-	-	-	-	-	-	-	7.0	3.5					
Alfalfa hay	tons	2.5	-	-	-	-	.9	-	-	-	-	-					
Red clover hay	tons	-	3.3	-	5.1	1.8	-	-	-	2.0	1.8	-					
Timothy and brome hay	tons	1.1	.7	-	-	-	-	-	-	-	.6	-					
Wild hay	tons	-	-	-	-	2.5	-	-	-	-	-	-					
Other hay	tons	-	-	1.3	-	1.0	2.0	-	1.6	1.5	-	.5					



Table 13. Feed Costs and Returns from Hogs, 1956

Items	Ave. of 6 farms	Farm Number			
		21	24	8	25
Feed per cwt. hogs produced:					
Corn	304	170	259	263	459
Small grain	159	50	197	563	147
Commercial feeds	220	24	31	429	27
Total concentrates	<u>683</u>	<u>244</u>	<u>487</u>	<u>1255</u>	<u>633</u>
Skim milk, buttermilk and whey	2	-	-	-	10
Feed cost per cwt. hogs produced: \$					
Concentrates	13.61	5.94	9.74	19.63	11.83
Skim milk, buttermilk and whey	.04	-	-	-	.24
Pasture	.40	.05	-	2.25	.12
Total feed costs	<u>14.05</u>	<u>5.99</u>	<u>9.74</u>	<u>21.88</u>	<u>11.95</u>
Net inc. in value per cwt. hogs prod. \$	18.82	16.86	16.86	27.50	16.97
Returns above feed cost per cwt. hogs produced \$	4.77	10.87	7.12	5.62	5.02
Returns for \$100 of feed	155	282	173	126	142
Price received per cwt. hogs sold	16.00	15.83	15.81	15.70	17.85
Ave. weight per hog sold lbs.	110	114	155	30	130
No. of spring litters raised	4.5	4	3	4	4
No. of fall litters raised	<u>3.5</u>	<u>3</u>	<u>5</u>	<u>4</u>	<u>4</u>
Total no. of litters raised	<u>8.0</u>	<u>7</u>	<u>8</u>	<u>8</u>	<u>8</u>
No. of pigs born per litter	8.8	11.1	9.6	8.9	8.8
No. of pigs weaned per litter	6.6	8.7	6.4	8.9	4.8
Pounds of hogs produced	5816	8300	8563	2130	4921
					6525
					4460

Table 14. Factors of Cost and Returns from Dairy Cattle, 1956

Items	Ave. of 21 farms	Farm Number									
		1	3	29	11	30	17	2	24	6	15
Pounds of butterfat per cow	311	398	385	377	358	353	347	340	336	332	321
Average test of milk (percent)		3.6	3.5	4.3	3.5	4.2	3.5	4.2	3.4	4.7	3.7
Price per lb. BF sold (cents)	94.9	107.1	94.7	87.7	84.0	89.5	119.0	101.2	93.8	80.6	118.0
Feed per cow, lbs:											
Corn	369	-	-	1352	-	-	-	-	884	1192	-
Small grain	431	1448	1076	530	-	-	-	1639	660	1242	-
Commercial feeds	1129	1505	1276	295	2246	1147	1846	2521	315	480	2460
Legume hay	1373	-	3757	6026	-	-	-	5130	3701	-	-
Other hay	4827	7604	-	-	4545	6021	6864	-	315	5555	5555
Total concentrates	1929	2953	2352	2177	2246	1147	1846	4160	1859	2914	2460
Total hay	6200	7604	3757	6026	4545	6021	6864	5130	4016	5555	5555
Silage	8739	-	17150	6964	14545	14540	8135	9129	4961	7313	12856
Feed cost per cow:											
Concentrates	\$47.24	\$78.10	\$58.91	\$50.69	\$66.86	\$35.72	\$47.89	\$81.01	\$35.82	\$72.88	\$54.44
Roughages	76.72	60.83	81.50	69.10	80.00	91.79	100.97	68.42	37.09	66.38	83.01
Pasture	6.85	8.95	7.45	7.30	6.00	6.81	7.88	7.19	7.44	5.97	7.50
Total feed cost	130.81	147.88	147.86	127.09	152.86	134.32	156.74	156.62	80.35	145.23	144.95
Value of produce per cow:											
Dairy product sales	279.69	369.62	394.88	324.06	286.59	297.50	399.31	316.96	304.43	258.40	368.40
Used in home or fed	16.26	14.74	14.14	7.30	14.12	16.78	14.10	20.17	6.60	8.91	7.62
Net inc. in value of cows	-8.52	56.53	-39.51	3.91	4.20	-10.13	-12.45	-12.95	-17.88	-20.00	-19.21
Total value produced	287.43	440.89	369.51	335.27	304.91	304.15	400.96	324.18	293.15	247.31	356.81
Ret. above feed cost per cow:	156.62	293.01	221.65	208.18	152.05	169.83	244.22	167.56	212.80	102.08	211.86
Returns for \$100 of feed	\$225	\$298	\$250	\$264	\$199	\$226	\$256	\$207	\$364	\$170	\$246
Feed cost per lb. BF (cents)	40.4	37.2	38.3	33.7	42.7	38.0	45.2	46.0	23.9	42.8	45.2
Number of cows	22.5	26.3	16.5	22.4	11.0	8.8	23.6	23.0	25.4	21.6	25.2

Table 14. Factors of Cost and Returns from Dairy Cattle, 1956 (continued)

Items	Farm Number										
	33	9	10	13	18	22	21	25	5	8	19
Pounds of butterfat per cow	307	307	297	295	286	285	283	264	234	222	202
Average test of milk (percent)	3.4	4.5	3.5	4.5	3.5	3.5	3.5	3.6	4.2	3.8	4.3
Price per lb. BF sold (cents)	98.4	96.7	107.0	92.8	119.2	83.8	85.9	85.0	83.3	82.6	84.3
Feeds per cow, lbs:											
Corn	1766	-	86	-	-	455	1390	500	51	-	75
Small grain	1028	-	109	-	-	-	588	90	-	223	425
Commercial feeds	47	2319	259	1567	3604	57	430	175	978	98	82
Legume hay	3898	5393	-	-	-	6954	-	-	-	-	-
Other hay	-	-	4346	6556	9898	408	6915	7926	9364	8465	5030
Total concentrates	2841	2319	454	1567	3604	512	2408	765	1029	321	582
Total hay	3898	5393	4346	6556	9898	7362	6915	7926	9364	8465	5030
Silage	8491	8764	15339	8588	5837	7754	15035	4574	5454	6790	1333
Feed cost per cow:											
Concentrates	\$60.90	\$59.34	\$24.83	\$44.81	\$75.91	\$ 9.01	\$61.64	\$17.13	\$34.97	\$ 8.25	\$13.13
Roughages	56.65	77.53	80.78	78.21	96.70	80.93	100.42	85.02	91.27	88.09	36.73
Pasture	8.25	6.15	5.11	6.44	2.93	7.04	4.79	6.14	7.50	9.21	7.82
Total feed cost	<u>125.80</u>	<u>143.02</u>	<u>110.72</u>	<u>129.46</u>	<u>175.54</u>	<u>96.98</u>	<u>166.85</u>	<u>108.29</u>	<u>133.74</u>	<u>105.55</u>	<u>57.68</u>
Value of produce per cow:											
Dairy product sales	287.79	250.25	300.03	265.30	333.27	235.04	227.68	161.38	179.53	172.29	141.71
Used in house or fed	12.47	37.41	15.17	7.96	7.10	3.67	16.81	61.03	14.54	14.27	26.72
Net inc. in value of cows	-5.31	-10.39	-17.20	-20.55	-23.92	2.89	.40	-6.58	-4.26	-14.18	-12.29
Total value produced	<u>294.95</u>	<u>277.27</u>	<u>298.00</u>	<u>252.71</u>	<u>316.45</u>	<u>241.60</u>	<u>244.89</u>	<u>215.83</u>	<u>189.81</u>	<u>172.38</u>	<u>156.14</u>
Ret. above feed cost per cow:	160.15	134.25	187.28	123.25	140.91	144.62	78.04	107.54	56.07	66.83	98.46
Returns for \$100 of feed	\$234	\$194	\$269	\$195	\$180	\$249	\$147	\$199	\$142	\$163	\$271
Feed cost per lb. BF (cents)	41.0	46.5	37.2	43.9	61.5	34.0	58.8	41.1	57.3	47.6	28.6
Number of cows	43.1	17.8	17.6	30.5	39.4	24.5	28.2	18.8	11.0	21.5	16.5

Table 15. Feed Costs and Returns from Other Dairy Cattle, 1956

Items	Ave. of 21 farms															
	1	3	29	11	30	17	2	24	6	15	Farm Number					
Feed per head, lbs.:																
Concentrates	213	195	178	302	159	184	1144	783	36	143						
Hay and fodder	2074	2608	1379	1024	2480	1132	3351	1385	4464	3244						
Silage	1353	-	2561	1977	3255	-	2703	1179	2143	-						
Skim milk	2	-	37	-	-	-	-	-	-	-						
Whole milk	370	157	32	24	227	304	641	152	243	85						
Total feed costs per head	\$42.18	\$37.15	\$33.87	\$29.95	\$41.76	\$25.92	\$66.28	\$36.21	\$55.83	\$33.53						
Net increase in value	57.72	49.13	89.54	47.56	29.53	48.81	44.38	59.91	30.73	55.23						
Return above feed cost	15.54	11.98	55.67	17.61	-15.23	22.89	-21.90	23.70	-25.10	21.70						
Return for \$100 of feed	\$ 163	\$ 132	\$ 264	\$ 159	\$ 66	\$ 188	\$ 67	\$ 165	\$ 55	\$ 254						
Number of head of cattle	21.4	29.9	20.3	28.3	12.9	21.2	18.5	19.5	11.2	26.5						
Items	Farm Number															
	33	9	10	13	18	22	21	25	5	8	19					
Feed per head, lbs.:																
Concentrates	-	41	330	746	137	209	490	235	5	142	-					
Hay and fodder	2923	1304	1279	2652	2899	694	1600	1448	1114	3225	1400					
Silage	2525	-	5580	1075	592	380	266	3310	-	-	-					
Skim milk	-	-	-	-	-	-	-	-	-	-	-					
Whole milk	337	513	135	62	59	-	341	2219	110	647	1333					
Total feed costs per head	\$44.25	\$33.84	\$46.36	\$54.04	\$41.45	\$17.55	\$38.10	\$94.75	\$13.01	\$58.50	\$52.70					
Net increase in value	85.25	41.54	98.68	47.30	92.73	62.83	62.25	47.58	35.55	56.78	61.53					
Return above feed cost	41.00	7.70	52.32	-6.74	51.28	45.28	24.15	-47.17	22.54	-1.72	8.83					
Return for \$100 of feed	\$ 193	\$ 123	\$ 213	\$ 88	\$ 223	\$ 358	\$ 163	\$ 50	\$ 174	\$ 97	\$ 168					
Number of head of cattle	30.1	23.0	17.2	27.9	33.8	31.6	37.5	14.5	15.7	9.3	7.5					

Table 16. Feed Costs and Returns from All Dairy Cattle, 1956

Items	Ave. of 21 farms														
	1	3	29	11	30	17	2	24	6	15	Farm Number				
Feeds per animal unit, lb.:															
Concentrates	1729	2022	1589	1566	1538	664	1387	3055	1775	2328	1359				
Hay and fodder	5327	6731	3370	4480	4713	5095	5437	5590	3664	6249	4669				
Silage	6451	-	12546	5792	11609	8917	5612	8074	4231	6690	6694				
Total feed cost per animal unit	\$104.78	117.72	116.62	100.29	124.96	95.52	131.86	137.44	75.59	134.50	92.40				
Value of prod. per animal unit															
Dairy products	\$186.78	241.42	251.61	202.13	185.23	171.91	275.48	228.32	221.94	208.45	194.36				
Net inc. in val. of cattle	30.55	71.57	43.66	39.20	24.55	51.87	21.65	16.24	20.29	-3.23	20.24				
Total value produced	\$217.33	312.99	295.27	241.33	209.78	223.78	297.13	244.56	242.23	205.22	214.60				
Ret. above feed per an. unit	\$112.55	195.27	178.65	141.04	84.82	128.26	165.27	107.12	166.64	70.72	122.20				
Return per \$100 of feed	\$ 212	\$ 266	\$ 253	\$ 241	\$ 168	\$ 234	\$ 225	\$ 178	\$ 320	\$ 153	\$ 232				
Animal units of cattle	34.4	41.3	26.7	36.6	17.4	15.7	34.2	32.2	35.2	27.2	48.4				
Items	Farm Number														
Feed per animal unit, lb.:															
Concentrates	2103	953	522	1542	9531	477	1836	681	606	314	471				
Hay and fodder	4398	2844	3759	6157	8667	5045	5424	6513	6409	8090	4587				
Silage	7594	3521	13966	6561	4440	5036	9231	5133	3191	5571	1079				
Total feed cost per animal unit	\$111.15	\$65.43	101.48	121.22	146.69	73.06	122.61	94.15	86.00	100.21	51.42				
Value of prod. per animal unit															
Dairy products	\$217.45	105.98	208.40	185.92	237.15	145.82	138.78	123.71	110.44	145.94	121.98				
Net inc. in val. of cattle	39.11	17.39	53.22	15.58	38.94	51.27	49.90	21.69	27.19	8.53	12.74				
Total value produced	\$256.56	123.37	261.62	201.50	276.09	197.09	188.68	145.40	137.63	154.47	134.72				
Ret. above feed per an. unit	\$145.41	57.94	160.14	80.28	129.40	124.03	66.07	51.25	51.63	54.26	83.30				
Return per \$100 of feed	\$ 231	\$ 188	\$ 258	\$ 166	\$ 188	\$ 270	\$ 154	\$ 154	\$ 160	\$ 154	\$ 262				
Animal units of cattle	58.2	44.3	26.2	44.5	56.3	40.1	47.0	26.1	18.8	26.2	20.3				

Table 17. Feed Costs and Returns from Chickens, 1956\*

Items	Ave. of					
	5 farms	30	25	24	19	29
Feed per hen: lb.						
Grain	88	69	201	70	40	60
Commercial feeds	22	42	22	15	13	17
Total concentrates	110	111	223	85	53	77
Total feed cost per hen	\$2.57	\$4.24	\$3.36	\$2.08	\$1.01	\$2.14
Value of produce per hen:						
Eggs sold and used in house	\$4.64	\$7.68	\$5.68	\$4.38	\$2.88	\$2.56
Net increase in value of chickens	-.59	.07	.11	-.60	-1.54	-.97
Total value produced	\$4.05	\$7.75	\$5.79	\$3.78	\$1.34	\$1.59
Returns above feed cost per hen	\$1.48	\$3.51	\$2.43	\$1.70	\$ .33	\$-.55
Returns for \$100 of feed	\$137	\$183	\$113	\$182	\$133	\$ 74
Price received per dozen eggs sold (cents)	31.8	46.3	26.5	28.8	32.9	24.7
Eggs laid per hen	152	196	207	171	89	96
Average number of hens on farm during year	159	374	197	108	60	58
Percent of hens that are pullets	70	50	100	50	50	100
Percent death loss of hens	19	13	10	35	18	21
Number of pullets started	115	225	350	0	0	0

\* Includes feeds and returns from laying flock and rearing flock.

Table 18. Comparison of Results for Identical Farms for the Years 1954 to 1956

Farm No.	Total receipts per farm		Total expenses per farm		Labor earnings per farm		Return to capital and family labor	
	1954	1955	1954	1955	1954	1955	1954	1955
1	\$10537	\$10920	\$6442	\$8876	\$4095	\$3649	\$5361	\$5679
2	9179	7455	7028	7429	2151	120	3282	1812
3	8126	8339	6100	9855	2026	2052	3213	3644
5	3984	2607	2850	2334	1134	273	1872	1004
6	6307	6107	5413	4262	894	1845	1570	2581
8	4392	6064	4011	6587	381	-523	1585	1407
9	3445	7221	3599	7041	-154	180	324	1504
10	5591	7429	6114	8242	-523	2189	212	3564
11	1905	3218	2593	5378	-688	-160	-424	249
13	9497	10654	10558	12218	-1061	-1037	617	546
14	5530	3463	6696	4788	-1166	-1325	-233	-419
15	10186	9377	11514	14071	-1328	-1728	563	-526
16	3641	3537	4976	3588	-1335	-51	81	544
17	8508	8946	10172	11212	-1664	780	-16	2232
18	10253	16087	12663	20245	-2410	-555	1259	1140

Farm No.	Number of dairy cows		No. of other dairy cattle		Pounds butterfat per cow	
	1954	1955	1954	1955	1954	1955
1	22.4	24.2	25.4	34.8	381	357
2	19.0	21.4	17.0	18.1	303	305
3	14.5	15.5	11.6	18.0	368	368
5	12.0	11.6	6.4	10.7	251	229
6	19.0	22.5	15.0	11.0	285	274
8	23.0	23.0	14.5	11.6	171	179
9	5.0	10.2	9.8	16.2	288	333
10	11.2	14.0	15.7	16.8	224	255
11	9.0	10.4	13.5	13.5	126	289
13	26.2	27.6	27.5	27.8	286	328
14	8.4	11.5	14.0	17.3	228	247
15	18.0	20.0	26.0	25.0	382	336
16	-	-	-	-	-	-
17	20.0	18.7	17.6	17.5	317	353
18	5	20.1	4.2	18.6	-	295