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1958 ANNUAL REPORT

NORTHEASTERN MINNESOTA FARM MANAGEMENT SERVICE

Department of Agricultural Economics
and
Agricultural Extension Service
UNIVERSITY OF MINNESOTA

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1958 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 Aitkin, 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, fifteen farms for 1956 and seventeen farms in both 1957 and 1958. In addition to this he assisted these farmers in planning the management of their farms.

The results for each farm are given in the following tables with the intention of showing the various factors affecting farm incomes of individual farms. 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 per cow.

The capital investment of these farms is approximately \$23000 per farm. At the end of 1958 the investment in livestock was \$5489 and in machinery and equipment over \$5800. Land was valued at \$4897 and buildings at \$4839. 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 \$7050 and the lowest incurred by any farmer was \$1782. The average personal expenses were \$3123 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 affecting labor earnings, 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. He also has the possibility of purchasing extra feed in order to carry more livestock. In some cases it is possible to rent or purchase more land. The expenses involved, however, must be carefully controlled because a large volume increases the potential loss as well as the potential profit.

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

* 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.

Table 2. Summary of Farm Inventories, 1958¹

Items	Ave. of 17 farms										Farm Number				
	31	18	2	19	1	35	3	15							
Size of farms (acres)	281	490	205	993	240	290	160	400							
Size of business (work units)*	342	757	320	388	360	419	244	333							
Dairy and dual purpose cattle	\$ 4779	\$ 7863	\$ 4510	\$ 5702	\$ 6485	\$ 6155	\$ 7150	\$ 5705							
Other livestock	639	6189	---	4240	---	---	---	---							
Crop, seed and feed	1671	2250	2004	2217	1765	2066	1277	2142							
Auto and truck (farm share)	795	740	262	383	1210	1556	655	825							
Tractors	1335	766	1500	950	755	2817	1866	583							
Crop and general machinery	2074	2601	3142	1527	2276	3986	1749	3008							
Livestock equipment and supplies	1425	4532	1409	51	2364	682	2155	4271							
Land	4883	7630	3800	3600	12000	13500	3400	5000							
Buildings, fences, etc.	4009	4661	5106	7060	3360	4096	4820	5002							
Total farm capital	\$21610	\$31043	\$21733	\$25730	\$30215	\$34858	\$23092	\$26536							
Total farm capital	22989	39811	22398	24054	30335	40213	23987	25063							
Farm Number															
Items	9	10	11	13	6	30	5	36							
Size of farm (acres)	260	204	220	390	177	80	120	159							
Size of business (work units)	428	346	285	453	372	186	181	225							
Dairy and dual purpose cattle	\$ 4130	\$ 6960	\$ 2110	\$ 7115	\$ 4250	\$ 2294	\$ 2309	\$ 4700							
Other livestock	---	---	27	---	---	75	38	---							
Crop, seed and feed	1852	2758	905	1682	2070	247	890	1095							
Auto and truck (farm share)	993	238	829	787	1246	75	40	693							
Tractors	3710	103	385	1006	1585	346	388	3026							
Crop and general machinery	1344	1162	1344	1718	1733	950	479	3368							
Livestock equipment and supplies	656	698	88	2492	359	1891	384	1694							
Land	3153	4022	5120	4795	4100	650	1500	1940							
Buildings, fences, etc.	4126	3894	2232	7911	2433	2582	1834	4316							
Total farm capital	\$19964	\$19835	\$13040	\$27506	\$17776	\$ 9110	\$ 7860	\$20832							
Total farm capital	23353	23062	15247	28048	17694	8684	8192	18638							

1. Arranged in descending order by labor earnings.
See page 2 for an explanation of work units.

Table 3. Summary of Farm Earnings (Cash Statement) 1958¹

Items	Ave. of 17 farms	Farm Number					
		31	18	2	19	1	35
Farm Receipts							
1. Dairy cattle	\$ 1404	\$ ----	\$ 1137	\$ 1293	\$ 1786	\$ 1357	\$ 722
2. Dairy products	7189	----	14701	8655	6153	10947	12385
3. Beef cattle	1005	12020	----	----	5064	----	----
4. Hogs	36	----	----	----	----	----	----
5. Poultry	437	7278	----	----	----	----	----
6. Eggs	1991	32782	----	----	----	----	----
7. Crops	257	----	938	118	160	----	----
8. Mach. and equip. sold	219	124	1957	119	57	112	123
9. Income from work off farm	386	----	2500	506	124	81	460
10. Miscellaneous	211	----	----	319	161	65	106
11. Total farm sales	<u>\$13135</u>	<u>\$52204</u>	<u>\$21233</u>	<u>\$11010</u>	<u>\$13505</u>	<u>\$12562</u>	<u>\$13796</u>
12. Increase in farm capital	1379	2055	8768	665	----	120	5355
13. Family living from farm	280	29	299	113	70	300	403
14. Total farm receipts	<u>\$14794</u>	<u>\$54288</u>	<u>\$30300</u>	<u>\$11788</u>	<u>\$13575</u>	<u>\$12982</u>	<u>\$19554</u>
Farm Expenses							
15. Dairy cattle bought	\$ 127	\$ ----	\$ ----	\$ 155	\$ ----	\$ ----	\$ ----
16. Beef cattle bought	278	4673	----	----	65	----	----
17. Hogs bought	1	----	----	----	----	----	----
18. Sheep bought	----	----	----	----	----	----	----
19. Poultry bought	421	7124	----	----	----	----	----
20. Misc. livestock expenses	367	27	919	536	268	554	436
21. Feed	2291	16258	2910	1274	1132	1167	2258
22. Fertilizers	402	52	1237	220	228	375	1111
23. Other crop expenses	207	327	516	185	192	343	176
24. Custom work hired	567	429	1319	164	462	1059	59
25. Gas, oil, grease (f. sh.)	582	552	1463	773	405	569	925
26. Rep. tract., trucks, autos (farm share)	256	455	478	240	154	152	449
27. Rep. farm real estate	94	97	140	52	370	38	8
28. Rep. crop & gen. mach.	144	433	230	188	71	105	404
29. Rep. livestock equip.	62	65	105	74	330	63	32
30. Wages of hired labor	494	3236	485	234	355	----	505
31. Elec. expense (farm share)	227	404	395	219	92	300	414
32. Real estate and pers. prop. taxes	317	466	589	175	537	218	503
33. Tel. & gen. farm expense	213	173	207	158	239	481	232
34. Total cash operating exp.	<u>\$ 7050</u>	<u>\$34771</u>	<u>\$10993</u>	<u>\$ 4647</u>	<u>\$ 4900</u>	<u>\$ 5424</u>	<u>\$ 7512</u>
35. Mech. power bot (f. share)	503	----	1300	----	265	----	----
36. Crop & gen. mach. bot	725	448	3431	290	805	255	1670
37. Livestock equip. bought	185	----	50	40	----	160	169
38. New real est. improvements	1175	6498	6958	----	----	150	3657
39. Total farm purchases	<u>\$ 9638</u>	<u>\$41717</u>	<u>\$22732</u>	<u>\$ 4977</u>	<u>\$ 5970</u>	<u>\$ 5989</u>	<u>\$13008</u>
40. Decrease in farm capital	----	----	----	----	1676	----	----
41. Interest on farm capital	1115	1094	1771	1103	1244	1514	1877
42. Unpaid family labor	437	----	472	540	----	810	473
43. Board furnished hired lab.	11	----	75	----	----	----	57
44. Total farm expenses	<u>\$11201</u>	<u>\$42811</u>	<u>\$25049</u>	<u>\$ 6620</u>	<u>\$ 8890</u>	<u>\$ 8313</u>	<u>\$15415</u>
45. Labor earnings	\$ 3593	\$11477	\$ 5251	\$ 5168	\$ 4685	\$ 4669	\$ 4139

¹ 1. Arranged in descending order of labor earnings.

Table 3. Summary of Farm Earnings (Cash Statement) 1958 (continued)

	Earnings		Farm Number								
	3	15	9	10	11	13	8	6	30	5	36
1.	\$ 1845	\$ 4660	\$ 950	\$ 1202	\$ 932	\$ 2737	\$ 2091	\$ 143	\$ 607	\$ 743	\$ 1657
2.	8106	11282	9414	8438	4312	9845	1840	5567	3716	3125	3721
3.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
4.	-----	-----	-----	-----	-----	-----	618	-----	-----	-----	-----
5.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
6.	-----	-----	-----	14	27	-----	-----	-----	17	104	-----
7.	124	-----	-----	1053	565	-----	938	472	1055	-----	-----
8.	118	156	90	475	14	194	45	33	-----	47	60
9.	-----	152	1301	-----	1081	122	-----	-----	-----	-----	241
10.	186	278	675	97	282	450	672	310	-----	-----	-----
11.	<u>\$10379</u>	<u>\$16528</u>	<u>\$12430</u>	<u>\$11279</u>	<u>\$ 7213</u>	<u>\$13348</u>	<u>\$ 6204</u>	<u>\$ 6525</u>	<u>\$ 5395</u>	<u>\$ 4019</u>	<u>\$ 5679</u>
12.	895	-----	3389	3226	2208	541	1742	-----	-----	332	-----
13.	490	260	379	404	212	331	121	200	466	405	286
14.	<u>\$11764</u>	<u>\$16788</u>	<u>\$16198</u>	<u>\$14909</u>	<u>\$ 9633</u>	<u>\$14220</u>	<u>\$ 8067</u>	<u>\$ 6725</u>	<u>\$ 5861</u>	<u>\$ 4756</u>	<u>\$ 5965</u>
	<u>Expenses</u>										
15.	\$ -----	\$ -----	\$ 100	\$ -----	\$ -----	\$ 1115	\$ -----	\$ -----	\$ 200	\$ -----	\$ 595
16.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
17.	-----	-----	-----	-----	-----	-----	13	-----	-----	-----	-----
18.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
19.	-----	-----	-----	25	-----	-----	-----	-----	-----	10	-----
20.	313	631	755	271	387	515	31	95	207	128	173
21.	1261	1948	2047	1593	1132	2472	652	656	1219	362	604
22.	371	512	1249	401	126	486	-----	181	-----	45	243
23.	197	194	268	132	160	293	183	219	5	54	70
24.	648	817	948	930	596	645	207	466	256	285	341
25.	480	803	469	542	554	879	512	351	158	258	194
26.	182	539	159	194	266	355	81	238	141	97	171
27.	53	50	8	162	78	47	190	53	9	107	132
28.	36	94	88	182	128	91	170	114	-----	95	14
29.	61	64	13	82	25	59	24	12	10	29	7
30.	10	1191	300	127	40	859	125	772	-----	75	89
31.	286	275	98	297	89	400	124	87	140	98	133
32.	221	311	178	308	469	461	265	276	164	62	189
33.	390	593	337	122	171	106	155	84	45	77	57
34.	<u>\$ 4509</u>	<u>\$ 8022</u>	<u>\$ 7017</u>	<u>\$ 5368</u>	<u>\$ 4221</u>	<u>\$ 8783</u>	<u>\$ 2732</u>	<u>\$ 3604</u>	<u>\$ 2554</u>	<u>\$ 1782</u>	<u>\$ 3012</u>
35.	-----	1956	1200	-----	1610	-----	1875	-----	200	150	-----
36.	855	274	2073	351	40	550	-----	260	-----	765	265
37.	665	-----	70	1744	200	40	-----	-----	-----	-----	-----
38.	70	-----	250	1485	355	-----	560	-----	-----	-----	-----
39.	<u>\$ 6099</u>	<u>\$10252</u>	<u>\$10610</u>	<u>\$ 8948</u>	<u>\$ 6426</u>	<u>\$ 9373</u>	<u>\$ 5167</u>	<u>\$ 3864</u>	<u>\$ 2754</u>	<u>\$ 2697</u>	<u>\$ 3277</u>
40.	-----	1474	-----	-----	-----	-----	-----	81	426	-----	2194
41.	1177	1290	1083	1073	707	1389	914	887	445	402	987
42.	675	-----	810	1620	135	1350	-----	-----	540	-----	-----
43.	-----	57	-----	-----	-----	-----	-----	-----	-----	-----	-----
44.	<u>\$ 7951</u>	<u>\$13073</u>	<u>\$12503</u>	<u>\$11641</u>	<u>\$ 7268</u>	<u>\$12112</u>	<u>\$ 6081</u>	<u>\$ 4832</u>	<u>\$ 4165</u>	<u>\$ 3099</u>	<u>\$ 6458</u>
45.	\$ 3813	\$ 3715	\$ 3695	\$ 3268	\$ 2365	\$ 2108	\$ 1986	\$ 1893	\$ 1696	\$ 1657	\$ -493

Table 4. Summary of Farm Earnings (Enterprise Statement) 1958

Items	Farm Number														
	Ave. of 17 farms			31	18	2	19	1	35	3	15				
RETURNS AND NET INCREASES															
Dairy & dual-purpose cows	\$ 7592	\$ ----	\$ 14868	\$ 10007	\$ 6768	\$ 10647	\$ 12822	\$ 8625	\$ 12073						
Other dairy & dual-purpose cattle	1667	----	3235	1504	1993	2499	2122	1672	2011						
Feeder cattle	372	3159	----	----	3169	----	----	----	----						
Hogs	59	----	----	----	----	----	----	----	----						
Turkeys	1940	32965	----	----	----	----	----	----	----						
Chickens	78	----	----	----	----	----	----	----	----						
All productive livestock	\$11708	\$36124	\$18103	\$11511	\$11930	\$13146	\$14944	\$10297	\$14084						
Value of feed fed	4961	18906	6898	5707	3844	5053	4932	3566	4700						
Livestock return over feed	\$ 6747	\$17218	\$11205	\$ 5804	\$ 8086	\$ 8093	\$10012	\$ 6731	\$ 9384						
Crops, seed and feed	2458	3149	3525	4482	1995	3458	2591	2522	2017						
Income from labor off farm	288	----	2000	70	31	76	138	100	152						
Miscellaneous	212	----	----	319	161	65	106	86	278						
Total returns & net increases	\$ 9705	\$20367	\$16730	\$10675	\$10273	\$11692	\$12847	\$ 9439	\$11831						
EXPENSES AND NET DECREASES															
Truck (farm share)	\$ 200	\$ 103	\$ 125	\$ 258	\$ 46	\$ ----	\$ 556	\$ ----	\$ 483						
Auto (farm share)	308	570	878	199	334	338	319	373	245						
Tractor	580	736	1170	684	426	646	951	602	212						
Elec. & gas eng. exp. (f. share)	228	404	395	221	82	300	414	286	275						
Hired power	301	107	737	88	277	556	36	371	490						
Total power	\$ 1617	\$ 1920	\$ 3305	\$ 1450	\$ 1165	\$ 1840	\$ 2276	\$ 1632	\$ 1705						
Crop and general machinery	660	1209	1880	344	442	641	944	476	1197						
Livestock equipment	248	250	1127	253	336	226	284	243	391						
Buildings, fences, etc.	421	407	144	652	817	353	1098	337	424						
Misc. prod. livestock expense	367	27	919	536	268	554	435	313	631						
Labor	1152	3343	1537	836	540	1196	1059	936	1575						
Real estate taxes	186	179	379	84	408	132	210	129	201						
Personal property taxes	132	287	210	91	129	86	293	93	109						
Insurance	52	48	71	87	160	6	56	71	----						
General farm expense	162	126	136	71	79	475	176	319	593						
Interest on farm capital	1115	1094	1771	1103	1244	1514	1877	1177	1290						
Total exp. and net decreases	\$ 6112	\$ 8890	\$11479	\$ 5507	\$ 5588	\$ 7023	\$ 8708	\$ 5626	\$ 8116						
Labor earnings	\$ 3593	\$11477	\$ 5251	\$ 5168	\$ 4685	\$ 4669	\$ 4139	\$ 3813	\$ 3715						

1. Arranged by descending order of labor earnings.

Table 4. Summary of Farm Earnings (Enterprise Statement) 1958 (continued)*

Items	Farm Number										
	9	10	11	13	8	6	30	5	36		
RETURNS AND NET INCREASES											
Dairy & dual-purpose cows	\$ 9898	\$ 8606	\$ 5031	\$10803	\$ 2132	\$ 5640	\$ 3878	\$ 3244	\$ 4004		
Other dairy & dual-purpose cattle	2175	2003	794	2375	1947	1353	893	753	1017		
Feeder cattle	---	---	---	---	---	---	---	---	---		
Hogs	---	---	---	---	910	---	---	100	---		
Turkeys	---	---	---	---	---	---	---	---	---		
Chickens	---	14	---	---	---	---	1162	---	---		
All productive livestock	\$12073	\$10623	\$ 5825	\$13178	\$ 4989	\$ 6993	\$ 5933	\$ 4273	\$ 5021		
Value of feed fed	4158	5015	2438	6785	2465	3636	2262	1278	2700		
Livestock return over feed	\$ 7915	\$ 5608	\$ 3387	\$ 6393	\$ 2524	\$ 3357	\$ 3671	\$ 2995	\$ 2321		
Crops, seed and feed	370	3979	1777	3686	2501	2818	1030	815	1085		
Income from labor off farm	1301	---	946	111	---	---	---	---	72		
Miscellaneous	675	97	282	450	672	310	---	---	---		
Total returns & net increases	\$10261	\$ 9684	\$ 6392	\$10640	\$ 5697	\$ 6485	\$ 4701	\$ 3810	\$ 3478		
EXPENSES AND NET DECREASES											
Truck (farm share)	\$ 272	---	\$ 123	\$ 395	\$ 267	\$ 115	\$ 322	\$ ---	\$ 341		
Auto (farm share)	216	259	426	207	245	394	60	124	51		
Tractor	694	477	290	867	522	713	200	329	342		
Elec. & gas eng. exp. (farm share)	98	298	99	402	124	87	150	99	143		
Hired power	518	468	326	368	72	217	154	171	153		
Total power	\$ 1798	\$ 1502	\$ 1264	\$ 2239	\$ 1230	\$ 1526	\$ 886	\$ 723	\$ 1030		
Crop and general machinery	588	502	358	509	521	488	212	302	714		
Livestock equipment	140	236	60	240	24	35	96	82	197		
Buildings, fences, etc.	220	321	213	614	389	252	307	188	420		
Misc. prod. livestock expenses	755	271	387	515	31	95	207	128	173		
Labor	1467	2081	397	2460	182	949	642	189	203		
Real estate taxes	87	205	394	161	170	193	56	61	107		
Personal property taxes	91	103	75	299	95	83	109	1	83		
Insurance	73	66	65	---	75	23	11	18	50		
General farm expense	264	56	107	106	80	61	34	59	7		
Interest on farm capital	1083	1073	707	1389	914	887	445	402	987		
Total expenses and net decreases	\$ 6566	\$ 6416	\$ 4027	\$ 8532	\$ 3711	\$ 4592	\$ 3005	\$ 2153	\$ 3971		
Labor earnings	\$ 3695	\$ 3268	\$ 2365	\$ 2108	\$ 1986	\$ 1893	\$ 1696	\$ 1657	\$ -493		

* 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 5. Household and Personal Expenses for Those Farmers Who Kept Accounts of These Expenses, 1958¹

Items	Ave. of								
	12 farms	19	2	15	18	10	9		
Number of persons--family	5.3	5.0	7.0	3.8	7.0	7.0	5.5		
Number of adult equivalent -- family	3.8	3.0	5.2	3.2	4.4	5.0	4.9		
other*	.1	---	---	.1	.2	---	---		
Expenses									
Food and meals bought	\$ 994	\$ 930	\$1490	\$1177	\$1255	\$ 769	\$1226		
Operating and supplies	211	549	119	498	54	93	129		
Furnishings and equipment	177	179	314	593	160	79	60		
Clothing and clothing material-	260	389	224	251	341	230	272		
Personal care and spending	86	15	50	325	62	23	145		
Education and recreation	158	133	186	171	186	71	296		
Gifts and special events	114	69	101	392	49	88	32		
Medical and hospital insurance	257	252	20	402	56	487	238		
Church and welfare	79	224	278	164	15	68	---		
Personal share of auto expense	128	144	149	94	43	57	80		
Upkeep on dwelling	87	---	277	4	---	82	---		
Personal share of tel. & elect. expense	93	42	85	101	123	85	175		
Total cash living expense	\$2644	\$2926	\$3293	\$4172	\$2344	\$2132	\$2652		
Personal share of new autos	171	---	---	---	---	---	1200		
New dwelling	83	---	---	---	1000	---	---		
Taxes	56	---	102	271	---	---	---		
Life insurance	168	---	441	348	132	---	122		
Other savings and investments	1	---	---	---	---	---	---		
Total household & pers. cash expense	\$3123	\$2926	\$3836	\$4791	\$3476	\$2132	\$3974		
Family living from the farm	290	70	113	260	299	404	379		
Total cash exp. and perquisites	\$3413	\$2996	\$3949	\$5051	\$3775	\$2536	\$4353		
Receipts									
Return to capital and family labor	\$4666	\$5110	\$6480	\$4498	\$5988	\$5504	\$5588		
Other personal income	795	3346	100	2040	---	330	---		
Total income	\$5461	\$8456	\$6580	\$6538	\$5988	\$5834	\$5588		

1. Arranged by descending order of Total Income (Total Income = return to capital and family labor plus personal income.)

* Hired help or others boarded

Table 5. Household and Personal Expenses for Those Farmers Who Kept Accounts of These Expenses, 1958
(continued)

Items	Farm Number							
	35	3	5	13	11	8		
Number of persons--family	5.0	5.1	6.0	5.0	5.0	2.0		
Number of adult equivalent -- family	3.2	3.9	3.6	3.8	3.4	1.8		
other	.1	---	---	---	---	---		
Expenses								
Food and meals bought	\$ 886	\$ 994	\$ 872	\$1299	\$ 667	\$ 365		
Operating and supplies	202	203	231	116	127	208		
Furnishings and equipment	242	238	67	41	133	17		
Clothing and clothing materials	264	368	150	280	341	12		
Personal care and spending	117	85	70	88	26	27		
Education and recreation	76	483	53	107	134	---		
Gifts and special events	54	115	264	41	54	115		
Medical and hospital insurance	116	371	231	532	219	162		
Church and welfare	46	6	74	2	20	48		
Personal share of auto expense	132	29	263	216	174	157		
Upkeep on dwelling	159	142	169	10	27	168		
Personal share tel. and elect. expense	46	44	115	124	125	45		
Total cash living expense	\$2340	\$3078	\$2559	\$2856	\$2047	\$1324		
Personal share of new autos	---	---	---	---	475	375		
New dwelling	---	---	---	---	---	---		
Taxes	136	122	16	---	25	---		
Life insurance	462	---	106	45	88	273		
Other savings and investments	---	---	---	13	---	---		
Total household & pers. cash expense	\$2938	\$3200	\$2681	\$2914	\$2635	\$1972		
Family living from the farm	403	490	405	331	212	121		
Total cash expenses and perquisites	\$3341	\$3690	\$3086	\$3245	\$2847	\$2093		
Receipts								
Return to capital and family labor	\$5531	\$5508	\$2050	\$4259	\$2591	\$2887		
Other personal income	---	---	2457	---	1265	---		
Total income	\$5531	\$5508	\$4507	\$4259	\$3856	\$2887		

Table 6. Net Worth Statement for Those Farmers Who Kept a Record of All Assets and Liabilities (Operator's Share) 1958

Items	Ave. of Farm Number								
	13 farms	2	19	35	3	15	9		
Total acres in farm	281	205	993	290	160	400	260		
Farm Capital	\$19800	\$21733	\$25730	\$32358	\$23092	\$26536	\$19964		
Cash on hand	187	95	---	54	281	73	780		
Stocks, bonds and life insurance	314	708	---	360	---	442	477		
Household goods and clothing	2096	3000	1650	2300	2500	3500	2000		
Personal share of auto and truck	215	150	168	297	65	255	44		
Farm dwelling	1596	2112	1440	*	**	**	3176		
Other non-farm assets	499	1553	2000	---	---	534	125		
Total non-farm assets	4907	7618	5258	3011	2846	4804	6602		
Total assets	\$24707	\$29351	\$30988	\$35369	\$25938	\$31340	\$26566		
Real estate mortgages	\$ 2784	\$ 2325	\$ 6600	\$ 3750	\$ ---	\$ ---	\$ ---		
Chattel mortgages	3346	4630	10960	9250	---	1960	---		
Notes payable	548	650	---	---	550	488	750		
Accounts payable	774	281	140	975	3882	1873	666		
Total liabilities	\$ 7452	\$ 7886	\$17700	\$13975	\$ 4432	\$ 4321	\$ 1416		
Net Worth	\$17255	\$21465	\$13288	\$21394	\$21506	\$27019	\$25150		
Farm Capital	\$20702	\$22398	\$24054	\$37713	\$23987	\$25063	\$23353		
Cash on hand	473	51	52	695	214	1879	400		
Stocks, bonds and life insurance	330	730	---	360	---	477	584		
Household goods and clothing	2167	3000	1975	2300	2500	3950	2100		
Personal share of auto and truck	319	100	97	234	54	666	1150		
Farm dwelling	1560	2249	1360	*	**	**	3141		
Other non-farm assets	546	1576	2000	---	---	952	125		
Total non-farm assets	5397	7706	5484	3589	2768	7924	7500		
Total assets	\$26099	\$30104	\$29538	\$41302	\$26755	\$32987	\$30853		
Real estate mortgages	\$ 2588	\$ 1790	\$ 5867	\$ 6000	\$ ---	\$ ---	\$ ---		
Chattel mortgages	3161	3630	5259	10250	---	2863	---		
Notes payable	589	918	---	250	500	488	1500		
Accounts payable	736	133	132	2085	3156	1866	597		
Total liabilities	\$ 7074	\$ 6471	\$11258	\$18585	\$ 3656	\$ 5217	\$ 2097		
Net Worth	\$19025	\$23633	\$18280	\$22717	\$23099	\$27770	\$28756		
Change in Net Worth	+\$1770	+\$2168	+\$4992	+\$1323	+\$1593	+\$ 751	+\$3606		

1. Arranged in descending order of labor earnings

* 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) 1958 (continued)

Items	Farm Number									
	10	11	13	6	30	5	36	120	159	
Total acres in farm	204	220	390	177	80	120	159			
Farm Capital	\$18835	\$11040	\$27506	\$16175	\$ 9110	\$ 5240	\$20082			
Cash on hand	---	210	78	---	345	280	240			
Stocks, bonds and life insurance	75	143	1060	614	---	---	200			
Household goods and clothing	2500	700	1350	3100	2050	1150	1450			
Personal share of auto and truck	59	649	350	484	25	10	237			
Farm dwelling	300	2790	2728	4850	750	1220	1380			
Other non-farm assets	445	915	210	---	---	---	700			
Total non-farm assets	3379	5407	5776	9048	3170	2660	4207			
Total assets	\$22214	\$16447	\$33282	\$25223	\$12280	\$ 7900	\$24289			
Real estate mortgages	\$ 2320	\$ 4500	\$ 4420	\$ 5100	\$ 2915	\$ ---	\$ 4250			
Chattel mortgages	2100	921	8105	1700	---	---	3875			
Notes payable	225	802	2500	---	1158	---	---			
Accounts payable	815	272	765	---	---	398	---			
Total liabilities	\$ 5460	\$ 6495	\$15790	\$ 6800	\$ 4073	\$ 398	\$ 8125			
Net Worth	\$16754	\$ 9952	\$17492	\$18423	\$ 8207	\$ 7502	\$16164			
Farm Capital	\$22062	\$13247	\$28048	\$16094	\$ 8684	\$ 6542	\$17888			
Cash on hand	100	445	253	---	700	1121	240			
Stocks, bonds and life insurance	75	144	1100	626	---	---	210			
Household goods and clothing	2500	700	1350	3100	2050	1200	1450			
Personal share of auto and truck	51	840	288	330	160	5	168			
Farm dwelling	240	2710	2653	4750	550	1365	1265			
Other non-farm assets	516	915	210	---	---	---	800			
Total non-farm assets	3482	5754	5854	8806	3460	3691	4133			
Total assets	\$25544	\$19001	\$33902	\$24900	\$12144	\$10233	\$22021			
Real estate mortgages	\$ 2200	\$ 4500	\$ 3640	\$ 4600	\$ 2125	\$ ---	\$ 2928			
Chattel mortgages	4566	1900	8544	1600	---	---	2478			
Notes payable	225	500	2500	---	768	---	---			
Accounts payable	139	---	1278	---	---	---	---			
Total liabilities	\$ 7130	\$ 6900	\$15962	\$ 6200	\$ 2893	\$ 181	\$ 5406			
Net Worth	\$18414	\$12101	\$17940	\$18700	\$ 9251	\$10052	\$16615			
Change in Net Worth	+\$1660	+\$2149	\$ +448	\$ +277	\$+1044	\$+2550	\$ +451			

Table 7. Family Living from the Farm, 1958¹

Items	Farm Number									
	Ave. of 17 farms	31	18	2	19	1	35	3	15	
No. of adult equivalents:										
Family	3.7	2.4	4.4	5.2	3.0	5.6	3.2	3.9	3.2	
Other*	---	---	.2	---	---	---	.1	---	.1	
Whole milk	1747	---	2016	1698	1275	1675	2148	2920	1190	
Cream	17	---	155	---	---	136	---	---	---	
Cattle	743	---	700	---	---	844	1150	1400	1194	
Hogs	41	---	---	---	---	---	---	---	---	
Poultry	25	146	---	---	---	---	---	---	---	
Eggs	9	---	---	---	---	---	---	---	---	
Total value	\$280	\$ 29	\$299	\$113	\$ 70	\$300	\$403	\$490	\$260	

Items	Farm Number									
	9	10	11	13	8	6	30	5	36	
No. of adult equivalents:										
Family	4.9	5.0	3.4	3.8	1.8	3.6	2.4	3.6	3.0	
Other*	---	---	---	---	---	---	---	---	---	
Whole milk	3700	2400	3170	2190	420	1087	730	1616	1460	
Cream	---	---	---	---	---	---	---	---	---	
Cattle	1000	1975	---	1000	---	800	1550	600	412	
Hogs	---	---	---	---	300	---	---	400	---	
Poultry	---	---	---	---	---	---	150	135	---	
Eggs	---	---	---	---	---	---	150	---	---	
Total value	\$379	\$404	\$212	\$331	\$121	\$200	\$466	\$405	\$286	

1. Arranged in descending order of labor earnings

* Hired help or others boarded

Table 8. Returns to Capital and Family Labor (Operator's Share) 1958*¹

Items	Ave. of									
	Farm Number									
	1	31	2	18	9	35	3	10		
Farm Income										
1. Total farm sales	\$12250	\$12562	\$38113	\$11010	\$21235	\$12430	\$13795	\$10379	\$11182	
2. Increase in capital	1379	120	2055	665	8768	3389	5355	895	3226	
3. Family living from farm	280	300	29	113	299	379	404	490	404	
4. Total farm receipts	\$13909	\$12982	\$40197	\$11788	\$30302	\$16198	\$19554	\$11764	\$14812	
Farm Expenses										
5. Total farm purchases	\$ 9579	\$ 6279	\$33696	\$ 5308	\$24239	\$10610	\$13966	\$ 6256	\$ 9308	
6. Decrease in capital	---	---	---	---	---	---	---	---	---	
7. Board furnished hired labor	11	---	---	---	75	---	57	---	---	
8. Total farm expenses	\$ 9590	\$ 6279	\$33696	\$ 5308	\$24314	\$10610	\$14023	\$ 6256	\$ 9308	
9. Return to cap. & family labor	\$ 4319	\$ 6703	\$ 6501	\$ 6480	\$ 5988	\$ 5588	\$ 5531	\$ 5508	\$ 5504	
Farm Income										
1. Total farm sales	\$13506	\$16528	\$13348	\$ 6204	\$ 5395	\$ 6812	\$ 4019	\$ 6053	\$ 5678	
2. Increase in capital	---	---	541	1742	---	2208	332	---	---	
3. Family living from farm	70	260	331	121	466	212	405	200	286	
4. Total farm receipts	\$13576	\$16788	\$14220	\$ 8067	\$ 5861	\$ 9232	\$ 4756	\$ 6253	\$ 5964	
Farm Expenses										
5. Total farm purchases	\$ 6790	\$10759	\$ 9961	\$ 5180	\$ 2754	\$ 6641	\$ 2706	\$ 4547	\$ 3839	
6. Decrease in capital	1676	1474	---	---	426	---	---	81	2194	
7. Board furnished hired labor	---	57	---	---	---	---	---	---	---	
8. Total farm expenses	\$ 8466	\$12290	\$ 9961	\$ 5180	\$ 3180	\$ 6641	\$ 2706	\$ 4628	\$ 6033	
9. Return to cap. & family labor	\$ 5110	\$ 4498	\$ 4259	\$ 2887	\$ 2681	\$ 2591	\$ 2050	\$ 1625	\$ -69	

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

* All farms are owner-operated with the exception of number 31 who keeps turkeys on a share basis.

Table 9. Measures of Farm Organization and Management Efficiency, 1958¹

Items	Farm Number								
	17 farms	31	18	2	19	1	35	3	15
Labor earnings	\$ 3593	\$11477	\$ 5252	\$ 5168	\$ 4685	\$ 4669	\$ 4139	\$ 3813	\$ 3715
Crop yields*	100	138	70	172	104	95	118	153	78
Percent tillable in high return crops**	33.8	0	21.9	35.5	48.8	39.0	30.0	31.2	37.2
Index of return for \$100 feed to prod. livestock***	100	80	105	81	141	100	124	115	86
Productive livestock units per 100 acres****	35.8	93.5	16.3	21.0	51.4	38.0	39.2	29.0	28.5
Size of business--work units	342	337	757	320	388	360	419	244	333
Work units per worker	244	169	505	246	388	240	299	174	208
Power, mach., equip., & bldg. expense per work unit	\$ 8.78	\$11.24	\$ 8.53	\$ 8.44	\$ 7.12	\$ 8.50	\$10.98	\$10.61	\$11.15

Items related to some of above measures:									
Index of return for \$100 feed from:	100	---	104	80	132	99	123	114	85
Dairy cattle (see pp.24-27)	39.7	87.9	57.4	32.5	84.8	42.0	47.6	30.2	35.6
Number of animal units									
Work units on crops	41	27	107	23	20	39	34	25	35
Work units on prod. livestock	273	310	450	290	365	313	371	219	283
Other work units	28	---	200	7	3	8	14	---	15
Number of family workers	1.2	1.0	1.3	1.3	1.0	1.5	1.3	1.4	1.0
Number of hired workers	.2	1.0	.2	---	---	---	.1	---	.6
Total number of workers	1.4	2.0	1.5	1.3	1.0	1.5	1.4	1.4	1.6
Power expense per work unit	\$ 4.84	\$ 5.70	\$ 4.37	\$ 4.53	\$ 3.00	\$ 5.11	\$ 5.43	\$ 6.69	\$ 5.12
Crop mach. exp. per work unit	1.94	3.59	2.48	1.08	1.14	1.78	2.25	1.54	3.59
Livestock equip. exp. per work unit	.66	.74	1.49	.79	.87	.63	.68	1.00	1.17
Bldgs. & fencing exp. per work unit	1.34	1.21	.19	2.04	2.11	.98	2.62	1.38	1.27

1. Arranged by descending order of labor earnings.

* Given as a percentage of the average.

** 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 the acres in (C) crops are used in calculating percent of tillable land in high return crops.

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

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

Table 9. Measures of Farm Organization and Management Efficiency, 1958 (continued)

Items	Farm Number										
	9	10	11	13	8	6	30	5	36		
Labor earnings	\$ 3695	\$ 3268	\$ 2365	\$ 2108	\$ 1986	\$ 1893	\$ 1696	\$ 1657	\$ -493		
Crop yields*	70	109	65	117	97	105	69	88	54		
Percent tillable in high return crops**	41.2	43.2	4.9	48.0	14.8	32.6	50.0	75.8	19.7		
Index of return for \$100 feed to prod. livestock***	121	80	100	77	97	78	105	134	77		
Productive livestock units per 100 acres****	43.7	38.7	11.8	32.0	12.9	25.1	63.6	23.5	40.3		
Size of business--work units	428	346	285	453	176	372	186	181	225		
Work units per worker	285	173	259	252	176	233	143	181	225		
Power, mach., equip., & bldg. expense per work unit	\$ 6.41	\$ 7.40	\$ 6.65	\$ 7.95	\$ 12.30	\$ 6.18	\$ 8.08	\$ 7.15	\$ 10.51		
Items related to some of above measures:											
Index of return for \$100 feed from dairy cattle (see pp. 20-23)	120	80	99	76	95	77	104	133	76		
Number of animal units	34.5	38.7	17.4	51.8	21.2	29.1	21.0	18.8	24.0		
Work units on crops	26	49	48	47	48	125	8	18	16		
Work units on prod. livestock	272	297	142	395	128	247	178	163	202		
Other work units	130	---	95	11	---	---	---	---	7		
Number of family workers	1.5	2.0	1.1	1.8	1.0	.7	1.3	1.0	1.0		
Number of hired workers	---	---	---	---	---	.9	---	---	---		
Total number of workers	1.5	2.0	1.1	1.8	1.0	1.6	1.3	1.0	1.0		
Power expense per work unit	\$ 4.20	\$ 4.34	\$ 4.43	\$ 4.94	\$ 6.99	\$ 4.10	\$ 4.77	\$ 3.99	\$ 4.58		
Crop mach. exp. per work unit	1.37	1.45	1.26	1.12	2.96	1.31	1.14	1.67	3.18		
Livestock equip. exp. per work unit	.33	.68	.21	.53	.14	.09	.52	.45	.88		
Bldgs. & fencing exp. per work unit	.51	.93	.75	1.36	2.21	.68	1.65	1.04	1.87		

Table 10. Distribution of Acres in Farm, 1958¹

Crop	Crop Rating*	Ave. of 17 farms									
		31	18	2	19	1	35	3	15		
Oats and oats mixtures	C	9.5	55	11	--	19	--	16	--	--	
Rye	D	.8	--	--	14	--	--	--	--	--	
Oat silage	C	4.9	15	--	--	--	11	--	--	--	
Total small grain		15.2	70	11	14	19	11	16	--	--	
Potatoes	A	.1	--	--	--	--	--	--	--	--	
Corn grain	C	.5	--	--	--	--	--	--	--	--	
Corn silage	C	6.8	50	--	--	--	8	7	--	--	
Rutabagas	A	.1	--	--	--	--	--	--	--	--	
Total cultivated crops		7.7	50	--	--	--	8	7	--	--	
Alfalfa and alfalfa mix hay	A	8.1	--	--	--	19.5	--	--	--	--	
Other leg. and leg. mix hay	B	22.1	55	44	--	--	12	24	87	--	
Timothy or brome hay	D	10.9	--	--	50	6.5	18	--	--	--	
Annual hay	D	8.5	--	--	--	14	20	--	--	--	
Total tillable land in hay		49.6	55	44	50	40	50	24	87	--	
Alfalfa & alfalfa mix. pasture	A	1.6	--	--	--	--	17	--	--	--	
Other leg. & leg. mix. pasture	C	5.8	--	40	--	--	24	--	12	--	
Other pasture	D	11.9	30	3	30	11	7	10	26	--	
Total tillable land in pasture		19.3	30	43	30	--	48	10	38	--	
Tillable land not cropped	D	5.4	87	--	--	--	4.5	--	--	--	
Total tillable land		97.2	262	98	94	40	121.5	57	125	--	
Wild hay		2.3	--	--	--	--	--	5	--	--	
Non-tillable pasture		35.4	90	57	--	125	--	42	--	--	
Timber not pastured and roads and waste		135.5	134	47	16	823	108.5	53	272	--	
Farmstead		4.1	4	3	10	5	10	3	3	--	
Total acres in farm		274.5	490	205	120	993	240	160	400	--	
Percent land tillable		41.4	78.3	47.8	4.0	46.0	50.6	35.6	31.2	--	
Percent tillable land in high return crops		33.8	0.0	35.5	48.8	39.0	30.0	31.2	37.2	--	

1. Arranged in descending order of labor earnings.

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

Table 11. Crop Yields per Acre, 1958*¹

Crop	Ave. of farms raising each crop	Farm Number									
		31	18	2	19	1	35	3	15		
Oats and oats mixtures	bu.	65.1	61.8	58.2	--	64.2	--	87.5	--	--	
Oat and oat mix silage	tons	7.2	10.0	--	--	--	7.1	--	--	--	
Corn silage	tons	6.4	3.0	--	--	--	11.3	6.3	--	--	
Alfalfa hay & alf. mix hay	tons	2.6	--	--	2.2	--	--	--	--	--	
Other leg. & leg. mix hay	tons	2.8	1.0	5.0	--	2.4	3.4	4.6	2.0	--	
Timothy and brome hay	tons	1.8	--	--	2.2	--	1.5	--	--	--	
Other hay	tons	1.9	--	--	2.2	--	2.4	--	--	--	

Crop	Ave. of farms raising each crop	Farm Number									
		9	10	11	13	8	6	30	5	36	
Oats and oats mixtures	bu.	--	51.1	--	--	78.6	54.4	--	--	--	
Oat and oat mix silage	tons	9.1	--	--	10.0	--	5.0	--	6.0	2.0	
Corn silage	tons	--	2.5	--	--	5.0	7.4	--	--	4.0	
Alfalfa hay & alf. mix hay	tons	1.5	--	2.0	2.5	4.0	4.0	--	2.2	--	
Other leg. & leg. mix hay	tons	--	2.7	2.4	--	--	--	1.8	--	2.0	
Timothy and brome hay	tons	--	--	1.1	--	--	--	--	--	--	
Other hay	tons	.9	--	--	2.2	1.5	2.0	--	--	--	

1. Arranged by descending order of labor earnings.

* Farm number 35 harvested 2 tons of hay per acre from 17 acres of "alfalfa and alfalfa mix pasture".

Table 12. Power and Machinery Expenses per Crop Acre, 1958

Items	Ave. of					Farm Number				
	17 farms	31	18	2	19	1	35	3	15	
Crop acres per farm	72.6	64	175	55	40	92	69	47	87	
Tractor and horse expense per crop acre	\$ 9.41	\$11.49	\$ 6.69	\$12.43	\$10.65	\$ 7.02	\$13.78	\$12.81	\$ 2.43	
Crop and general machinery per crop acre	\$10.59	\$18.89	\$10.74	\$ 6.26	\$11.05	\$ 6.97	\$13.68	\$ 8.01	\$13.75	

Items	Farm Number					
	9	10	11	13	8	6
Crop acres per farm	52	87.5	120	85	109	82.5
Tractor and horse expense per crop acre	\$13.35	\$ 5.45	\$ 2.42	\$10.20	\$ 4.78	\$ 8.64
Crop and general machinery per crop acre	\$11.30	\$ 5.74	\$ 2.99	\$ 5.99	\$ 4.78	\$ 5.92

Items	Farm Number					
	30	5	36	26	22.5	15.23
Tractor and horse expense per crop acre	\$ 9.96	\$12.67	\$15.23	\$11.62	\$31.76	

Table 13. Factors of Cost and Returns from Dairy Cows, 1958¹

Items	Ave. of Farm Number								
	16 farms	11	3	35	15	9	1	18	6
Pounds of butterfat per cow	347	459	444	436	412	408	402	344	326
Average test of milk (percent)	4.0	3.8	3.7	5.0	4.0	3.9	3.7	3.6	4.6
Price per lb. BF sold (cents)	97.5	83.4	108.3	94.0	114.5	107.0	109.9	114.0	79.4
Pounds of milk per cow	8593	12293	12036	8791	10518	10532	10988	9569	6963
Price per cwt. milk sold (dollars)	3.98	3.03	3.98	4.66	4.48	4.15	4.00	4.09	3.73
Feed per cow, lbs:									
Corn	117	---	---	---	---	272	---	---	675
Small grain	397	---	885	645	---	---	1311	1692	1714
Commercial feeds	1719	2404	2650	1252	2005	2737	1128	1650	795
Legume hay	3817	---	4686	6032	5350	6508	3922	3238	4286
Other hay	1616	6452	---	---	---	---	---	---	---
Total concentrates	2233	2404	3535	1897	2005	3009	2439	3342	3184
Total hay	5433	6452	4686	6032	5350	6508	3922	3238	4286
Silage	9891	9677	13028	6349	11111	3534	14902	16710	9286
Feed cost per cow:									
Concentrates	\$ 55.34	\$ 81.56	\$ 66.35	\$ 46.57	\$ 62.56	\$ 76.22	\$ 54.73	\$ 72.62	\$ 69.63
Roughages	66.56	61.93	74.23	64.29	73.46	50.69	74.12	74.41	63.12
Pasture	5.97	5.95	5.92	5.63	7.41	3.50	5.64	2.89	5.47
Total feed cost	<u>\$127.87</u>	<u>\$149.44</u>	<u>\$146.50</u>	<u>\$116.49</u>	<u>\$143.43</u>	<u>\$130.41</u>	<u>\$134.49</u>	<u>\$149.92</u>	<u>\$138.22</u>
Value of produce per cow:									
Dairy product sales	\$325.06	\$347.68	\$463.19	\$393.17	\$464.28	\$405.78	\$429.29	\$383.84	\$248.53
Used in home	6.79	17.13	10.85	5.83	4.52	10.92	4.31	4.15	3.36
Fed	6.75	17.25	.94	7.89	1.95	12.74	3.58	1.80	7.08
Net inc. in value of cows	5.46	23.71	17.90	.16	26.08	-2.80	-39.45	-1.58	-7.19
Total value produced	<u>\$344.06</u>	<u>\$405.77</u>	<u>\$492.88</u>	<u>\$407.05</u>	<u>\$496.83</u>	<u>\$426.64</u>	<u>\$397.73</u>	<u>\$388.21</u>	<u>\$251.78</u>
Ret. above feed cost per cow:	\$216.19	\$256.33	\$346.38	\$290.56	\$353.40	\$296.23	\$263.24	\$238.29	\$113.56
Returns for \$100 of feed	\$274	\$272	\$336	\$349	\$346	\$327	\$296	\$259	\$182
Feed cost per lb. BF (cents)	37.3	33.4	33.0	26.8	34.8	32.0	33.6	43.7	42.3
Number of cows	22.8	12.4	17.5	31.5	24.3	23.2	25.5	38.3	22.4

1. Arranged in descending order of pounds of butterfat per cow.

Table 13. Factors of Cost and Returns from Dairy Cows, 1958 (continued)

Items	Farm Number									
	13	10	36	2	30	19	8	5		
Pounds of butterfat per cow	323	323	319	307	284	267	264	227		
Average test of milk (percent)	4.5	3.6	4.6	3.8	4.0	3.4	3.8	4.4		
Price per lb. BF sold (cents)	95.1	107.9	69.1	105.4	109.3	84.8	81.1	96.9		
Pounds of milk per cow	7094	8945	4881	8024	7028	7884	6792	5146		
Price per cwt. milk sold (dollars)	4.33	3.79	4.68	4.04	4.41	2.87	3.16	4.28		
Feeds per cow, lbs:										
Corn	----	----	----	----	----	----	917	----		
Small grain	----	101	----	----	----	----	----	----		
Commercial feeds	1962	2251	1085	2585	1468	1924	1302	302		
Legume hay	1945	3896	----	4364	----	4490	8333	4027		
Other hay	486	----	7363	----	9280	----	----	2282		
Total concentrates	1962	2352	1085	2585	1468	1924	2219	302		
Total hay	2431	3896	7363	4364	9280	4490	8333	6309		
Silage	23830	22570	7802	13455	----	1905	2083	2013		
Feed cost per cow:										
Concentrates	\$ 49.64	\$ 61.12	\$ 31.41	\$ 77.20	\$ 43.78	\$ 34.01	\$ 48.74	\$ 9.36		
Roughages	78.83	96.93	78.63	73.09	47.33	34.76	71.36	47.85		
Pasture	5.09	4.67	4.94	5.23	8.33	7.19	11.72	5.87		
Total feed cost	<u>\$133.56</u>	<u>\$162.72</u>	<u>\$114.98</u>	<u>\$155.52</u>	<u>\$ 99.44</u>	<u>\$ 75.96</u>	<u>\$131.82</u>	<u>\$ 63.08</u>		
Value of produce per cow:										
Dairy product sales	\$299.25	\$338.84	\$204.42	\$314.74	\$297.28	\$209.28	\$191.68	\$209.74		
Used in home	5.19	6.17	8.02	4.11	4.09	2.38	7.88	9.72		
Fed	1.36	1.22	12.78	3.06	5.36	10.82	19.47	.62		
Net inc. in value of cows	22.56	-.62	-5.22	41.97	3.50	7.71	3.03	-2.33		
Total value produced	<u>\$328.36</u>	<u>\$345.61</u>	<u>\$220.00</u>	<u>\$363.88</u>	<u>\$310.23</u>	<u>\$230.19</u>	<u>\$222.06</u>	<u>\$217.75</u>		
Ret. above feed cost per cow:	\$194.80	\$182.89	\$105.02	\$208.36	\$210.79	\$154.23	\$ 90.24	\$154.67		
Returns for \$100 of feed	\$246	\$212	\$191	\$234	\$312	\$303	\$168	\$345		
Feed cost per lb. BF (cents)	41.4	50.4	36.0	50.6	35.1	28.5	48.0	27.7		
Number of cows	32.9	24.9	18.2	27.5	12.5	29.4	9.6	14.9		

Table 14. Feed Costs and Returns from Other Dairy Cattle, 1958¹

Items	Ave. of										
	Farm Number										
	16 farms	11	3	35	15	9	1	18	6		
Feed per head, lbs.:											
Concentrates	237	177	399	180	443	142	170	284	301		
Hay and fodder	3377	3434	2688	2298	3111	4356	3515	682	2239		
Silage	3158	3636	1976	2174	3111	178	1151	4199	1643		
Whole milk	242	697	21	194	65	412	91	61	321		
Total feed costs per head	\$49.97	\$59.10	\$39.61	\$38.90	\$54.03	\$50.35	\$49.19	\$30.34	\$40.30		
Net increase in value	87.93	80.15	66.09	65.89	89.40	96.67	75.73	84.91	100.97		
Return above feed cost	37.96	21.05	26.48	26.99	35.37	46.32	26.54	54.57	60.67		
Return for \$100 of feed	\$202	\$136	\$167	\$169	\$165	\$192	\$154	\$280	\$251		
Number of head of cattle	21.6	9.9	25.3	32.2	22.5	22.5	33.0	38.1	13.4		
Items	Ave. of										
	Farm Number										
	13	10	36	2	30	19	8	5			
Feed per head, lbs.:											
Concentrates	333	329	78	385	66	386	66	51			
Hay and fodder	2433	1455	3826	11300	6695	290	2632	3077			
Silage	10582	6109	-----	15000	-----	-----	-----	769			
Whole milk	33	37	538	271	175	522	396	33			
Total feed costs per head	\$63.26	\$41.15	\$52.81	\$142.99	\$50.13	\$21.42	\$34.79	\$31.13			
Net increase in value	62.83	72.82	88.43	150.38	75.69	72.23	128.09	96.55			
Return above feed cost	-0.43	31.67	35.62	7.39	25.56	50.81	93.30	65.42			
Return for \$100 of feed	\$ 99	\$177	\$167	\$105	\$151	\$337	\$368	\$310			
Number of head of cattle	37.8	27.5	11.5	10.0	11.8	27.6	15.2	7.8			

1. Arranged by descending order of pounds of butterfat per cow.

Table 15. Feed Costs and Returns from All Dairy Cattle, 1958

Items	Ave. of									
	Farm Number									
	16 farms	11	3	35	15	9	1	18	6	
Feeds per animal unit, lb.:										
Concentrates	1503	1814	2084	1377	1649	2116	1615	242	2590	
Hay and fodder	5658	6551	4967	5546	5618	7217	5143	2613	4330	
Silage	8400	8966	9205	5672	9551	2493	9952	13937	7904	
Total feed cost per animal unit	\$112.01	\$127.83	\$117.53	\$ 98.38	\$130.71	\$111.97	\$118.13	\$118.97	\$119.51	
Value of prod. per animal unit										
Dairy products	\$224.71	\$259.98	\$274.69	\$264.04	\$319.99	\$280.22	\$263.26	\$258.89	\$193.90	
Net inc. in val. of cattle	57.96	62.50	65.74	44.68	74.31	61.16	35.55	55.30	40.96	
Total value produced	<u>\$282.67</u>	<u>\$322.48</u>	<u>\$340.43</u>	<u>\$308.72</u>	<u>\$394.30</u>	<u>\$341.38</u>	<u>\$298.81</u>	<u>\$314.19</u>	<u>\$234.86</u>	
Ret. above feed per an. unit	\$170.66	\$194.65	\$222.90	\$210.34	\$263.59	\$229.41	\$180.68	\$195.22	\$115.35	
Return per \$100 of feed	\$255	\$252	\$290	\$314	\$216	\$305	\$253	\$264	\$197	
Animal units of cattle	33.7	17.4	30.2	47.6	35.6	34.5	42.0	57.4	29.1	
23										
Items	Farm Number									
	13	10	36	2	30	19	8	5		
Feeds per animal unit, lb.:										
Concentrates	1489	1748	860	2306	1039	1556	1296	261	6276	
Hay and fodder	3321	3540	7417	7169	10598	3241	6977	1163	1915	
Silage	22857	18863	5917	16000	----	----	----	----	----	
Total feed cost per animal unit	\$130.13	\$133.15	\$102.81	\$173.00	\$ 96.06	\$ 58.01	\$ 93.45	\$ 62.43		
Value of prod. per animal unit										
Dairy products	\$193.36	\$221.98	\$161.10	\$269.80	\$204.73	\$144.05	\$111.38	\$173.94		
Net inc. in val. of cattle	60.18	51.34	38.42	81.78	50.92	51.39	114.89	38.21		
Total value produced	<u>\$253.54</u>	<u>\$273.32</u>	<u>\$199.52</u>	<u>\$351.58</u>	<u>\$255.65</u>	<u>\$195.44</u>	<u>\$226.27</u>	<u>\$212.15</u>		
Ret. above feed per an. unit	\$123.41	\$140.17	\$ 96.71	\$178.58	\$159.59	\$137.43	\$132.82	\$149.72		
Return per \$100 of feed	\$195	\$205	\$194	\$303	\$266	\$337	\$242	\$340		
Animal units of cattle	51.8	38.7	24.0	32.5	18.4	43.2	17.2	18.8		

Table 16. Comparison of Results for Identical Farms for Years 1954-1958.

Farm No.	Total Receipts per farm					Total Expenses per farm				
	1954	1955	1956	1957	1958	1954	1955	1956	1957	1958
1	\$10537	\$10920	\$14519	\$14741	\$12982	\$ 6442	\$ 7271	\$ 8876	\$ 9834	\$ 8313
2	9179	7455	8605	14652	11788	7028	7335	7429	10518	6620
3	8126	8339	12256	10159	11764	6100	6287	9855	7489	7951
5	3984	2607	3176	3476	4756	2850	2334	2199	2100	3099
6	6307	6107	8049	6105	6725	5413	4262	7243	4385	4832
8	4392	6064	4912	5470	8067	4011	6587	5965	4937	6081
9	3445	7221	10712	15090	16198	3599	7041	8259	11571	12503
10	5591	7429	13704	11443	14909	6114	5240	8242	10540	11641
11	1905	3218	6328	7014	9633	2593	3378	5672	6359	7268
13	9497	10654	11632	10183	14220	10558	11691	12218	11294	12112
15	10186	9377	14423	15076	16788	11514	11105	14071	14873	13073
18	10253	16087	18693	15909	30300	12663	16642	20245	19106	25049
Ave.	6950	7956	10584	10776	13178	6573	7431	9189	9417	9879

Farm No.	Labor Earnings per farm					Return to Capital and Family Labor				
	1954	1955	1956	1957	1958	1954	1955	1956	1957	1958
1	\$ 4095	\$ 3649	\$ 5643	\$ 4907	\$ 4669	\$ 5361	\$ 5679	\$ 6484	\$ 6763	\$ 6703
2	2151	120	1176	4134	5168	3282	1812	2517	5635	6480
3	2026	2052	2401	2670	3813	3212	3644	4012	4432	5508
5	1134	273	977	1376	1657	1872	1004	1267	2422	2050
6	894	1845	806	1720	1893	1570	2581	625	2449	1625
8	381	-523	-1053	533	1986	1585	1407	684	1449	2887
9	-154	180	2453	3519	3695	324	1504	3912	5268	5588
10	-523	2189	5462	903	3268	212	3564	6366	3190	5504
11	-688	-160	656	655	2365	-424	249	798	894	2591
13	-1061	-1037	-586	-1111	2108	617	546	256	1142	4259
15	-1328	-1728	352	203	3715	563	-526	408	1254	4498
18	-2410	-555	-1552	-3197	5251	1259	1140	137	-1187	5988
Ave.	377	525	1395	1359	3299	1619	1884	2289	2809	4473

Table 16. Comparison of Results for Identical Farms for Years 1954-1958 (continued)

Farm No.	Non-Farm Income					Number of Dairy Cows				
	1954	1955	1956	1957	1958	1954	1955	1956	1957	1958
1	\$ ----	\$ ----	\$ ----	\$ ----	\$ ----	22.4	24.2	26.3	26.9	25.5
2	----	168	278	83	100	19.0	21.4	23.0	24.9	27.5
3	----	2069	118	65	----	14.5	15.5	16.5	17.6	17.5
5	----	460	973	1307	2457	12.0	11.6	11.0	13.5	14.9
6	2800	----	----	3565	3600	19.0	22.5	21.6	21.0	22.4
8	----	144	----	----	----	23.0	23.0	21.5	14.0	9.6
9	2800	935	815	146	----	5.0	10.2	17.8	18.8	23.2
10	----	----	807	950	330	11.2	14.0	17.6	20.6	24.9
11	1618	3219	2713	3213	1265	9.0	10.4	11.0	13.2	12.4
13	----	----	----	6	----	26.2	27.6	30.5	29.0	32.9
15	3412	----	----	2684	2040	18.0	20.0	25.2	28.6	24.3
18	6000	6000	8000	7000	----	.5	29.1	39.4	31.5	38.3
Ave.	1386	1083	1142	1585	816	15.0	19.1	21.8	21.6	22.8

Farm No.	Number of Other Dairy Cattle					Pounds Butterfat per Cow				
	1954	1955	1956	1957	1958	1954	1955	1956	1957	1958
1	25.4	34.8	29.9	26.5	33.0	381	357	398	356	402
2	17.0	18.1	18.5	9.0	10.0	303	305	340	337	307
3	11.6	18.0	20.3	23.3	25.3	368	368	385	390	444
5	6.4	10.7	15.7	13.8	7.8	251	229	234	231	227
6	15.0	11.0	11.2	12.8	13.4	285	274	332	312	326
8	14.5	11.6	9.3	15.5	15.2	171	179	222	266	264
9	9.8	16.2	23.0	24.6	22.5	288	333	307	381	408
10	15.7	16.8	17.2	22.3	27.5	224	255	297	327	323
11	13.5	13.5	12.9	11.2	9.9	126	289	358	387	459
13	27.5	27.8	27.9	36.9	37.8	286	328	295	326	323
15	26.0	25.0	26.5	22.0	22.5	382	336	321	382	412
18	4.2	18.6	33.8	38.2	38.1	---	295	286	349	344
Ave.	20.3	18.5	20.5	21.3	21.9	255	296	315	337	353