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SUMMARY REPORT  
OF THE  
VARIOUS FARM MANAGEMENT SERVICES  
IN MINNESOTA FOR 1963

UNIVERSITY OF MINNESOTA  
Institute of Agriculture

Report No. 278  
Department of Agricultural Economics  
Institute of Agriculture  
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SUMMARY REPORT OF THE VARIOUS FARM MANAGEMENT SERVICES  
IN MINNESOTA FOR 1963

Herbert Walch and Truman Nodland

INTRODUCTION

Ten groups of farmers in Minnesota kept farm records in an organized manner and had their records summarized at the end of 1963. An annual report was published for each area. It is the purpose of this publication to bring together into one report some of the more pertinent data from each of the ten groups of farmers. A publication of this nature will be of use to farmers, teachers, research workers, and others who desire some information concerning actual farm operations in various sections of the state. Some of the uses for the information in this report are: (1) to show variation in farmers' earnings and some of the factors affecting earnings between the various areas in the state and (2) to provide data which can be used in farm planning and budgeting.

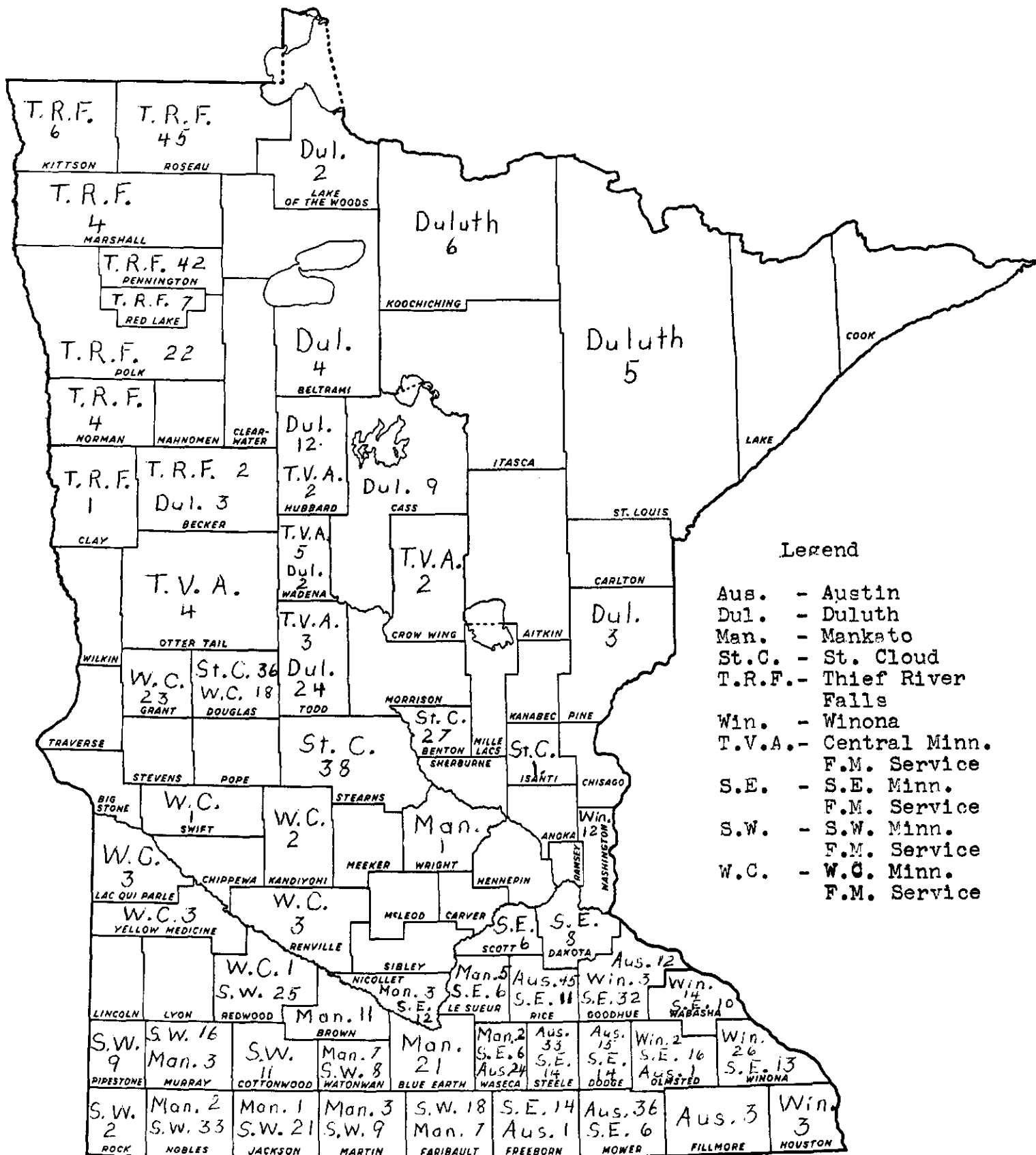
Farmers whose records are used in the preparation of the various reports have demonstrated an interest in the effectiveness of their managerial ability and generally have more productive and larger operations than the average of the farmers in their respective areas.

The farm records of six of the ten groups are summarized by area coordinators in the Area Vocational-Technical schools located throughout the state. The six area coordinators, who in 1963 handled the farm record summarization in their respective areas and prepared reports, are: Gordon Ferguson, Winona; Delbert Hodgkins, Mankato; Robert G. Anderson, Duluth; Ed O'Connell, St. Cloud; Charles Painter, Austin; and Peter Probasco, Thief River Falls. Farm records from the remaining four groups were processed in the Department of Agricultural Economics, University of Minnesota. Ralph Smith, Superintendent at the West Central Experiment Station, and Mike Cullen, Area Coordinator at Willmar, assisted in the preparation of the report from West Central Minnesota.

The area designations used in this report and the number of farm records utilized for the report from each area for 1963 are:

Area	Designation in this report	No. of farms
Mankato Area Vocational-Technical School	Mankato	66
Southwestern Minnesota Farm Management Association	S.W. Assoc.	143
Austin Area Vocational-Technical School	Austin	140
Southeastern Minnesota Farm Management Association	S.E. Assoc.	154
Winona Area Vocational-Technical School	Winona	52
St. Cloud Area Vocational-Technical School	St. Cloud	100
West Central Minnesota Farm Management Service	West Central	45
Central Minnesota Farm Management Service for T.V.A.	T.V.A.	16
Thief River Falls Area Vocational-Technical School	Thief River Falls	137
Duluth Area Vocational-Technical School	Duluth	<u>64</u>
Total number of farm records		917

The number of records by counties is shown in figure 1.



Legend

- Aus. - Austin
- Dul. - Duluth
- Man. - Mankato
- St.C. - St. Cloud
- T.R.F. - Thief River Falls
- Win. - Winona
- T.V.A. - Central Minn. F.M. Service
- S.E. - S.E. Minn. F.M. Service
- S.W. - S.W. Minn. F.M. Service
- W.C. - W.C. Minn. F.M. Service

## CAPITAL INVESTMENT AND EARNINGS

Average receipts, expenses and earnings are shown in tables 1 and 2. These statements have been computed on a "full owner" basis. In cases of rented farms, receipts and expenses of landlords are included in order to make all farms comparable. The earnings statements reflect, in part, differences between areas in type of farming followed.

The average value of capital used per farm for each of the ten areas is shown in table 3. In general, these inventory values are conservative. Estimated values of rented real estate are included in order to show the total capital resources used.

Family living secured from the farm and household and personal expenses are shown in tables 4 and 5. Value of family living secured from the farm is credited to the farm business (table 1).

Some of the factors affecting earnings are shown in table 6. The information reflects some of the differences between areas in size of business, organization, and efficiency in the use of labor, power, machinery, equipment, and buildings.

## LAND USE AND CROP YIELDS

The average total acres per farm and the manner in which these acres are utilized in each area is shown in table 7. The figures for the small grains and grasses are higher in the northern areas, while the figures for cultivated crops are higher in the southern areas. These differences in type of crop grown are largely due to climatic conditions, such as length of growing season and average temperature.

Crop yields per acre are presented in table 8 and show the average yields for each crop by areas.

## LIVESTOCK ENTERPRISES

Tables 9-18 present the average figures for feed costs and returns from the various livestock enterprises by area. They are presented on a "per head" or "per cwt." basis, as indicated, and show feed cost, value produced, returns over feed cost, and returns for \$100 feed. Table 12 contains the figures from farmers who farrow and raise over 50 percent of the hogs they sell. Table 13 contains the figures from those farmers who purchase more than 50 percent of the hogs they sell. Data from those farmers who farrow and sell all or most of their hogs as feeder pigs are presented in table 14.

Table 1. Summary of Farm Earnings, 1963 (Cash Statements)

Items	Farm record keeping groups										
	Mankato	S.W. Assoc.	Austin	S.E. Assoc.	Winona	St. Cloud	West Central	T.V.A.	Falls	Thief River	Duluth
Number of cases	66	143	140	154	52	100	45	16	137	64	
<b>FARM RECEIPTS</b>											
Dairy cattle	\$ 829	\$ 546	\$1348	\$2046	\$2101	\$1718	\$1367	\$2178	\$1045	\$1162	
Dairy products	2908	1694	5073	8247	10494	7215	4621	7932	3631	5201	
Beef cattle (incl. feeders)	6051	20512	3813	2916	1673	1109	6301	245	1744	718	
Hogs	10476	8639	7860	5552	3246	1929	3547	1172	750	739	
Sheep and wool	93	213	234	251	105	51	238	277	640	100	
Poultry (incl. turkeys)	40	485	25	68	521	4	1579	-	1651	6	
Eggs	632	1094	546	1047	381	90	1361	14	682	29	
Crop sales*	10488	9667	5335	4945	1689	1023	4662	788	5840	695	
Machinery and equipment sold	341	313	281	344	253	237	336	252	316	204	
Income from work off the farm	442	502	327	429	250	535	475	269	346	203	
Miscellaneous**	342	496	1478	358	157	493	348	421	412	392	
Total farm sales	\$32642	\$44161	\$26320	\$26203	\$20870	\$14404	\$24835	\$13548	\$17057	\$ 9456	
Increase in farm capital	2978	-	2554	874	2283	2110	3025	439	3918	2264	
Family living from the farm	258	272	330	316	455	403	306	315	304	366	
Total farm receipts	\$35878	\$44438	\$29204	\$27393	\$23608	\$16917	\$28166	\$14302	\$21279	\$12086	

\* Includes forestry products.

\*\* Includes horses.

Table 1. Summary of Farm Earnings, 1963 (Cash Statement) (continued)

Items	Farm record keeping groups									
	Mankato	S.W. Assoc.	Austin	S.E. Assoc.	Winona	St. Cloud	West Central	T.V.A.	Thief River Falls	Duluth
<b>FARM EXPENSES</b>										
Dairy cows bought	\$ 182	\$ 52	\$ 221	\$ 311	\$ 339	\$ 249	\$ 139	\$ 30	\$ 235	\$ 271
Beef cattle (incl. feeders)	3520	10854	2829	1310	470	336	3493	211	1266	390
Hogs bought	510	830	590	387	154	213	295	71	69	24
Sheep bought	3	50	36	93	1	6	47	4	135	18
Poultry (incl. turkeys)	118	239	57	185	149	13	461	4	310	5
Misc. livestock expense	596	562	582	756	741	417	658	389	445	286
Feed bought	5781	8334	4341	3926	3368	2396	5655	2124	2609	1310
Fertilizers	1557	1401	1327	1173	731	975	669	400	614	297
Other crop expenses	1124	1247	973	1091	693	796	796	446	880	311
Custom work hired	755	827	722	867	923	638	859	582	585	529
Gas, oil, grease (farm share)	1105	1293	1083	1055	969	750	982	674	1061	673
Rep. trac., truck, auto (fm. sh.)	667	778	595	631	604	495	573	448	525	328
Rep. & upkeep farm real est.	385	351	336	313	338	206	271	161	128	77
Rep. & upkeep cr. & gen. mach.	513	524	440	424	410	327	391	289	432	195
Rep. & upkeep lvstk. equip.	130	223	172	168	199	89	127	120	82	66
Wages of hired labor	649	1134	538	886	799	310	502	204	707	276
Electricity expense	285	291	299	358	341	233	257	289	268	206
Pers. prop. & real est. taxes	1513	1579	1206	1397	996	523	946	604	636	434
Telephone & gen. farm expense	332	419	332	423	347	506	287	355	230	180
Total cash operating expense	\$19725	\$30988	\$16680	\$15754	\$12572	\$ 8682	\$17408	\$ 7405	\$11217	\$ 5876
Mech. power bought (fm. sh.)	1507	1034	693	727	1079	542	542	458	636	535
Crop & gen. mach. bought	1268	1310	923	948	1035	3189	999	426	745	467
Livestock equipment bought	442	413	423	393	343	495	495	137	240	407
New real estate improvements	740	863	1095	1046	957	1479	1479	189	1645	985
Total farm purchases	\$23682	\$34608	\$19814	\$18868	\$15986	\$11871	\$20923	\$ 8615	\$14483	\$ 8270
Decrease in farm capital	-	997	-	-	-	-	-	-	-	-
Interest on farm capital	4836	5358	3528	3178	3297	1908	2912	1765	1961	1450
Unpaid family labor	192	586	634	710	585	250	604	714	83	443
Board furnished hired labor	76	77	66	96	121	75	65	60	122	49
Total farm expenses	\$28786	\$41626	\$24042	\$22852	\$19989	\$14104	\$24504	\$11154	\$16649	\$10212
Labor earnings	\$ 7092	\$ 2812	\$ 5162	\$ 4541	\$ 3619	\$ 2813	\$ 3662	\$ 3148	\$ 4630	\$ 1874

Table 2. Summary of Farm Earnings, 1963 (Enterprise Statements)

Items	Farm record keeping groups									
	Mankato	S.W. Assoc.	Austin	S.E. Assoc	Winona	St. Cloud *	West Central	T.V.A.	Thief River Falls	Duluth
<b>RETURNS AND NET INCREASES</b>										
Dairy cows	\$2847	\$1726	\$5057	\$8357	\$10344	\$7298	\$4721	\$8336	\$3674	\$5339
Other dairy cattle	908	539	1512	2199	2939	2300	1511	2790	1329	1515
Beef breeding herd	186	216	248	318	116	246	601	55	369	754
Feeder cattle	2604	6964	1300	1141	1022	440	2393		755	108
Hogs	9746	7695	7477	4924	3126	1735	3318	1227	723	768
Sheep--farm flock	75	173	123	85	260	44	237	219	413	72
Sheep--feeders	2	14	-	32	-	-	-	-	62	-
Turkeys	-	350	-	-	408	-	1446	-	1393	-
Chickens	572	1017	529	1014	364	90	1062	24	623	44
All productive livestock	\$16940	\$18694	\$16246	\$18070	\$18579	\$12153	\$15289	\$12651	\$9841	\$8600
Value of feed fed to lvstk.	12856	17474	12080	11963	10061	7577	11604	7907	5915	4636
Return over feed from lvstk.	\$4084	\$1220	\$4166	\$6107	\$8518	\$4576	\$3685	\$4744	\$3926	\$3964
Crops, seed, and feed	17059	17598	12341	11743	7863	5590	10448	5729	8803	3829
Income from labor off farm	265	300	208	204	87	281	224	124	192	129
Miscellaneous	342	496	1477	349	153	436	348	517	451	391
Total returns & net incr.	\$21750	\$19614	\$18192	\$18403	\$16621	\$10883	\$14705	\$11114	\$13372	\$8313
<b>EXPENSES AND NET DECREASES</b>										
Horses	\$ -	\$ 8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7
Truck	383	319	321	308	350		343	242	400	250
Auto (farm share)	543	550	500	505	421		420	398	381	301
Tractor	1375	1646	1329	1256	1211		1087	786	1116	878
Electricity (farm share)	285	287	299	359	339		237	283	233	111
Hired power	340	355	384	423	474		368	323	276	529
Total power	\$2926	\$3165	\$2833	\$2851	\$2795		\$2455	\$2032	\$2406	\$2076
Crop and general machinery	1624	1668	1409	1412	1349		1070	885	1159	612
Livestock equipment	423	569	418	496	502		363	353	255	213
Buildings, fences and tilling	1218	1409	1241	1350	1143		851	524	564	421
Misc. prod. lvstk. expense	596	562	582	750	736		658	389	413	285
Labor	1190	2075	1479	2005	1840		1501	1198	1110	768
Real estate taxes	1336	1293	999	1128	767		737	414	447	268
Personal property tax	177	286	208	269	229		209	190	189	166
Insurance	148	185	163	194	183		132	101	92	72
General farm expense	184	232	170	229	161		155	115	146	108
Interest on farm capital	4836	5358	3528	3178	3297		2912	1765	1961	1450
Total expenses & net decr.	\$14658	\$16802	\$13030	\$13862	\$13002		\$11043	\$7966	\$8742	\$6439
Labor earnings	\$7092	\$2812	\$5162	\$4541	\$3619		\$3662	\$3148	\$4630	\$1874

\* Detailed information not available.



Table 3. Summary of Farm Inventories at Beginning of the Year, 1963

Items	Farm record keeping groups							Thief River Falls	Duluth
	Mankato	S.W. Assoc.	Austin	S.E. Assoc.	Winona	St. Cloud*	West Central		
Size of farm (acres)	288	346	260	263	303	268	291	368	316
Size of business (work units)	483	567	467	563	571	448	513	491	378
Dairy cows	\$1988	\$ 988	\$3360	\$4095	\$6754		\$3021	\$7666	\$2186
Other dairy cattle	877	740	1676	2283	3599		2029		1274
Beef cattle (incl. feeders)	4605	16029	2673	2819	2196		6148		3090
Hogs	4572	3164	3143	2046	1331		1210	938	421
Sheep (incl. feeders)	72	154	215	137	90		169		481
Poultry (incl. turkeys)	125	264	148	207	94		425		256
Total productive livestock	\$12239	\$21339	\$11215	\$11587	\$14064		\$13002	\$ 8604	\$ 7643
Horses	\$ -	\$ 17	\$ -	\$ 18	\$ 33		\$ 16	\$ 96	\$ 26
Crop, seed and feed	9513	10086	7998	7714	5679		4682	3193	3118
Auto (farm share)	1148	1137	3608	1159	965		899	914	889
Tractors	2632	2683		2301	2094		1716	1261	1570
Crop and general machinery	4495	4913	4522	4612	4182		3712	3786	2856
Livestock equip. & supplies	1555	1728	1171	1904	2022		1473	1514	910
Total machinery & equipment	\$ 9830	\$10461	\$ 9301	\$ 9976	\$ 9263		\$ 7800	\$ 7475	\$ 6225
Miscellaneous	\$ -	\$ -	\$ -	\$ 15	\$ -		\$ -	\$ -	\$ -
Land	50500	50463	26575	18741	22313		21295	10139	14996
Buildings, fences, etc.	13145	15298	14192	15077	13450		9925	5583	5258
Total capital managed (beginning of year)	\$95227	\$107664	\$69281	\$63128	\$64802		\$56720	\$35090	\$37266
Total capital managed (end of year)	\$98205	\$106667	\$71835	\$64002	\$67085		\$38651	\$35529	\$41184
Change in capital managed	+2978	-997	+2554	+874	+2283		+2110	+439	+3918

\* Detailed information not available.

Table 4. Family Living from the Farm, 1963

Items	Farm record keeping group									
	Mankato	S.W. Assoc.	Austin*	S.E. Assoc.	Winona	St. Cloud*	West Central	T.V.A.	Thief River Falls	Duluth
Adult equivalent, family	*	3.9	3.8	4.0	3.1		*	5.1	3.1	3.7
Whole milk	\$ 50	\$ 35		\$ 98	\$124		\$ 85	\$124	\$ 71	\$ 86
Cream	1	-		2	-		2	3	6	9
Beef	129	163		148	202		141	134	149	109
Hogs	54	53		45	36		52	48	22	35
Lamb and mutton	-	1		-	1		-	-	2	1
Poultry	6	9		5	12		16	5	6	9
Eggs	8	16		18	22		10	1	8	4
Miscellaneous	10	-		-	55		-	-	55	124
Total family living from farm	\$258	\$277	\$330	\$316	\$452	\$403	\$306	\$315	\$319	\$377

\* Detailed information not available.

Table 5. Household and Personal Expenses, 1963

Items	Farm record keeping groups*									
	Mankato	S.W. Assoc.	Austin	S.E. Assoc.	Winona	West Central	T.V.A.	River Falls	Thief	Duluth
Number of cases	34	65	58	60	16	21	9	58	58	30
Food and meals bought	\$1204	\$1084	\$1070	\$1091	\$ 821	\$ 964	\$ 966	\$ 945	\$ 945	\$ 767
Operating and supplies	326	335	293	395	314	308	195	188	188	164
Furnishings and equipment	245	272	249	225	199	249	183	157	157	100
Clothing and clothing materials	428	425	391	390	228	322	349	298	298	251
Personal care and spending	128	150	131	105	108	110	110	94	94	100
Education, recreation & development	270	350	212	275	137	167	262	130	130	163
Gifts and special events	137	141	137	155	81	158	101	81	81	84
Medical care and health insurance	407	450	444	589	461	331	272	360	360	346
Church, welfare	216	255	214	284	119	242	111	127	127	113
Personal share, auto & truck expense	182	227	185	175	117	181	126	165	165	146
Upkeep on dwelling (operator's share)	63	35	109	40	66	64	120	67	67	133
Electricity & telephone exp. (HH share)	122	130	116	140	116	140	111	93	93	123
Total cash living expense	\$3728	\$3854	\$3551	\$3864	\$2767	\$3236	\$2906	\$2705	\$2705	\$2490
Household & personal share new auto	84	132	125	81	9	230	-	75	75	79
New dwelling	-	388	-	113	312	190	-	199	199	30
Taxes and other deductions	16	478	14	271	277	173	38	10	10	213
Life insurance	85	494	240	435	209	208	182	170	170	76
Other savings and investments	381	534	123	317	54	322	11	54	54	23
Total household and personal expense	\$4294	\$5880	\$4053	\$5081	\$3628	\$4374	\$3137	\$3213	\$3213	\$2911
Total family living from the farm	222	272	353	320	389	299	285	358	358	349
Total cash expense & perquisites	\$4516	\$6152	\$4406	\$5401	\$4017	\$4673	\$3422	\$3571	\$3571	\$3260
Return to capital & family labor	\$7752	\$4184	\$6335	\$7029	**	\$3300	\$3921	\$5290	\$5290	\$2681

\* Information not available from the St. Cloud area.

\*\* Information not available.

Table 6. Farm Organization, Management Efficiency and Related Items, 1963

Items	S.W. Assoc.		Austin Assoc.		S.E. Assoc.		Winona		St. Cloud		West Central		T.V.A.		Thief River Falls		Duluth
	Mankato																
Labor earnings	\$7092	\$2812	\$5162	\$4541	\$3619	\$2813	\$3662	\$3148	\$4630	\$1874							
Percent tillable land in high return crops	72	67	67	60	57	60	55	*	47	48							
Productive livestock units per 100 acres**	36	45	37	36	41	41	29	25	13	22							
Size of business--work units	483	567	467	563	571	448	513	491	466	378							
Work units per worker	356	334	323	331	331	326	342	327	370	261							
Power, machinery, equipment & bldg. exp. per work unit	\$13.34	\$13.07	\$13.62	\$11.75	\$10.26	\$9.68	\$10.47	\$7.97	\$9.68	\$8.81							
Items related to some of the above measures:																	
Number of animal units	84	134	79	82	82	63	83	57	59	45							
Work units on crops	150	173	118	116	91	99	130	99	204	95							
Work units on prod. livestock	306	364	349	425	471	349	361	360	260	263							
Other work units	27	30	-	22	9	-	22	32	2	20							
Number of family workers	1.2	1.3	*	1.3	1.4	*	1.3	1.3	1.1	1.3							
Number of hired workers	$\frac{.1}{1.3}$	$\frac{.4}{1.7}$	$\frac{*}{1.4}$	$\frac{.4}{1.7}$	$\frac{.3}{1.7}$	$\frac{*}{1.4}$	$\frac{.2}{1.5}$	$\frac{.2}{1.5}$	$\frac{.1}{1.2}$	$\frac{.1}{1.4}$							
Total number of workers																	
Power expense per work unit	\$6.46	\$6.12	\$6.71	\$5.56	\$5.16	\$5.32	\$5.47	\$4.39	\$5.31	\$5.53							
Crop mach. exp. per work unit	3.39	3.29	3.20	2.77	2.32	2.17	2.31	1.82	2.56	1.62							
Livestock equip. exp. per w.u.	.89	1.00	.85	.84	.86	.62	.74	.68	.56	.54							
Bldgs. & fences exp. per w.u.	2.60	2.66	2.86	2.58	1.92	1.57	1.95	1.08	1.25	1.12							

\* Information not available.  
 \*\* Timber not pastured, roads, waste and farmstead not included.

Table 7. Distribution of Acres per Farm, 1963

Items	Farm record keeping groups									
	Mankato	S.W. Assoc.	Austin	S.E. Assoc.	Winona	St. Cloud	West Central	T.V.A.	Thief River	Duluth
Canning peas	1.1	.9	.7	2.1	4.6	-	-	-	.4	-
Flax	.2	9.2	.9	.1	-	3.6	11.1	-	31.9	2.1
Wheat	9.5	4.5	8.5	6.8	1.4	4.0	10.8	-	30.7	2.2
Oats for silage	1.2	2.1	.5	2.0	1.1	2.4	.7	-	-	1.6
Oats for grain	11.9	23.5	21.5	23.8	24.6	24.7	39.6	25.1	119.5	24.0
Barley	.7	.3	.7	.8	.2	1.4	4.1	-	36.0	1.2
Misc. small grains	-	-	-	-	.2	2.2	.1	3.2	7.2	.3
Total small grain and peas	24.6	40.5	32.8	35.6	32.1	38.3	66.4	28.3	225.7	31.4
Corn grain	109.8	135.4	84.2	74.6	42.8	36.3	70.0	24.8	7.5	12.9
Soybeans for grain	57.7	47.0	32.4	19.7	4.3	9.8	10.2	-	1.1	.9
Corn silage	5.3	15.0	9.5	9.5	14.8	23.4	17.0	24.1	14.2	15.0
Misc. cultivated crops	5.3	9.9	4.2	4.0	2.4	1.1	1.0	-	9.3	2.2
Total cultivated crops	178.1	198.3	130.3	107.8	64.3	69.6	98.2	48.9	32.1	29.0
Alfalfa hay	17.7	29.1	24.9	38.6	44.5	37.3	37.1	55.3	53.9	39.5
Other legumes and mixtures	.4	.4	1.9	.4	.4	2.1	-	10.5	22.6	16.2
Miscellaneous hay	1.1	1.1	3.3	5.5	5.5	3.2	.8	7.3	16.5	14.2
Total tillable land in hay	18.2	30.6	27.1	39.5	45.4	42.6	37.9	73.1	93.0	69.9
Alfalfa pasture	3.6	5.4	9.3	15.6	19.9	-	9.7	29.6	12.1	1.0
Other legumes and mixtures	.1	-	.9	.1	3.6	-	-	-	21.1	13.0
Other tillable pasture	.8	3.3	3.3	8.8	7.7	9.6	.8	21.6	9.3	5.6
Total till. land in pasture	4.5	5.7	10.5	16.5	24.2	9.6	10.5	51.2	42.5	19.6
Soil bank & feed grain program	24.2	25.3	20.7	15.6	10.1	11.2	11.8	13.8	36.3	9.7
Tillable land not cropped	-	.8	.5	.8	1.5	-	1.1	5.5	29.9	7.5
Total tillable land	249.6	301.2	221.9	215.8	177.6	171.3	225.9	220.8	459.5	167.1
Wild hay	2.2	2.2	.5	1.1	2.5	-	3.5	7.5	5.4	5.8
Non-tillable pasture	9.6	18.6	15.6	20.8	34.8	47.0	30.7	55.7	40.5	54.9
Timber not pastured	2.9	1.1	2.7	7.9	65.4	-	5.6	-	26.8	58.4
Farmstead, roads and waste	23.9	23.2	19.5	16.9	22.7	50.0	25.4	84.3	41.4	30.0
Total acres per farm	288.2	346.3	260.2	262.5	303.0	268.3	291.1	368.3	573.6	316.2
Percent land tillable	87	87	85	82	59	64	78	60	80	53

Table 8. Crop Yields per Acre, 1963

Items	Farm record keeping groups									
	Mankato	S.W. Assoc.	Austin	S.E. Assoc.	Winona	St. Cloud	West Central	T.V.A.	Thief River Falls	Duluth
Canning peas, dollars	\$28.82	\$38.52	\$49.06	\$42.88	\$35.97	-	-	-	-	-
Flax, bu.	13.5	12.8	12.7	19.6	-	13.9	12.5	-	9.7	8.5
Wheat, bu.	30.3	21.3	31.0	31.3	34.6	26.3	26.6	-	22.1	18.5
Oats silage, tons	6.6	5.8	5.5	7.9	6.2	-	9.2	-	-	4.0
Rye, bu.	-	-	-	22.5	22.6	15.8	-	-	23.2	20.5
Oats grain, bu.	62.8	50.1	61.2	62.8	57.2	48.1	55.8	38.5	55.2	37.7
Barley, bu.	40.0	30.5	41.8	54.0	50.0	34.9	44.9	-	38.2	26.3
Corn grain, bu.	90.2	78.0	87.5	82.3	84.4	57.6	65.0	57.1	61.2	53.2
Potatoes, bu.	-	-	-	-	-	200.0	-	-	230.4	181.3
Soybeans, bu.	30.5	27.7	26.6	26.1	24.5	19.1	24.8	-	26.7	12.0
Corn silage, tons	12.6	12.3	13.9	13.2	12.8	9.0	10.2	7.6	9.1	8.6
Alfalfa hay, tons	3.5	3.1	2.9	2.9	3.1	2.8	3.4	2.2	1.7	1.6
Other legumes and mix., tons	1.1	2.3	2.1	-	1.8	2.1	-	1.8	1.0	1.5
Soil bank & feed grain prog.	\$53.81	\$49.16	*	\$54.69	\$45.45	*	\$40.64	\$31.32	*	*

\* Information not available.

Table 9. Feed Prices, 1963

Items	Farm record keeping groups*								Thief River Falls
	Mankato	S.W. Assoc.	Austin	S.E. Assoc.	Winona	West Central	T.V.A.		
Corn, per bu.	\$1.05	\$1.05	\$1.10	\$1.05	\$ .98	\$1.05	\$1.05	\$1.05	\$1.10
Oats, per bu.	.60	.62	.65	.62	.61	.62	.62	.62	.57
Barley, per bu.	.84	.84	-	.84	.75	.84	-	-	.90
Soybean meal, per cwt.	-	4.60	-	4.60	-	4.60	4.60	4.60	-
Meat scraps, per cwt.	-	5.90	-	5.90	-	5.90	-	-	-
Alfalfa hay, per ton	19.00	19.00	18.50	19.00	17.15	19.00	18.50	18.50	14.00
Red or alsike clover hay, per ton	16.00	16.10	15.25	16.10	14.33	16.10	-	-	10.00
Timothy hay, per ton	11.00	11.00	10.00	11.00	-	11.00	10.70	10.70	-
Wild hay, per ton	9.00	9.50	-	9.50	-	9.50	-	-	6.00
Corn silage, per ton	7.00	6.50	6.50	6.50	6.49	6.50	6.25	6.25	6.00
Grass silage, per ton	6.00	-	-	-	5.85	-	-	-	5.00
Pasture, per mo., per cow	3.00	3.00	3.00**	3.00	2.50	3.00	2.50	2.50	1.75

\* Information not available from St. Cloud and Duluth.

\*\* Beef cattle were charged at \$2.50 per head per month.

Table 10. Feed Costs and Returns from Dairy Cows, 1963

Items	Mankato Assoc.	Austin	S.E. Assoc.	Winona	St. Cloud	West Central	T.V.A.	Thief River Falls	Duluth
No. of farms with dairy cattle	20	83	117	41	86	29	16	73	49
Pounds of butterfat per cow	370	359	376	369	329	354	337	334	323
Pounds of milk per cow	9650	9983	10229	10207	9244	9835	9349	9225	8997
Percent of butterfat in milk	3.6	3.6	3.7	3.6	3.6	3.6	3.7	3.6	3.6
Price rec'd per lb. BF sold (¢)	92.0	91.0	92.9	96.0	*	87.7	90.8	91.0	91.3
Price rec'd per cwt. milk sold	\$3.35	\$3.29	\$3.43	\$3.47	*	\$3.16	\$3.32	\$3.29	\$3.29
Feed per cow, lbs.:									
Grain	3737	3526	3738	3215	2570	3472	2126	2918	1939
Commercial feed	<u>351</u>	<u>436</u>	<u>518</u>	<u>434</u>	<u>692</u>	<u>518</u>	<u>972</u>	<u>590</u>	<u>967</u>
Total concentrates	4088	3962	4256	3649	3263	3990	3099	3508	2906
Legume hay	5885	5307	5321	4564	*	4687	4968	5821	5031
Other hay and fodder	<u>31</u>	<u>372</u>	<u>146</u>	<u>413</u>	<u>*</u>	<u>39</u>	<u>542</u>	<u>1611</u>	<u>646</u>
Total hay and fodder	5916	5679	5467	4977	5600	4726	5510	7432	5677
Silage	7292	7443	6782	9518	10000	9598	10105	5002	9407
Feed cost per cow:									
Concentrates	\$94.72	\$92.98	\$93.50	\$75.79	\$77.55	\$90.95	\$77.46	\$73.40	\$70.86
Roughages	82.59	75.11	69.49	74.08	81.30	73.83	80.01	61.37	76.06
Pasture	<u>9.59</u>	<u>9.21</u>	<u>12.04</u>	<u>9.39</u>	<u>6.43</u>	<u>10.89</u>	<u>12.57</u>	<u>7.10</u>	<u>6.26</u>
Total feed cost	\$186.90	\$177.30	\$175.03	\$159.26	\$165.28	\$175.67	\$170.04	\$141.87	\$153.18
Value of produce per cow:									
Dairy product sales	\$330.59	\$316.36	\$339.47	\$346.87	{ 297.76	\$294.45	\$291.84	\$293.66	\$280.85
Dairy prod. used in home	6.21	4.43	4.73	4.14		6.66	5.09	5.94	5.50
Milk fed to livestock	5.66	5.78	4.19	5.09		6.29	11.39	4.62	7.69
Net inc. in value of cows	<u>-8.73</u>	<u>-11.84</u>	<u>-4.23</u>	<u>-12.87</u>	<u>-8.40</u>	<u>-6.85</u>	<u>-3.34</u>	<u>-6.02</u>	<u>-7.22</u>
Total value produced	\$333.73	\$314.73	\$344.16	\$343.23	\$289.36	\$300.55	\$307.98	\$298.20	\$286.82
Returns above feed per cow	\$146.83	\$137.43	\$169.13	\$183.97	\$124.08	\$124.88	\$137.94	\$156.33	\$133.64
Returns for \$100 of feed	\$182	\$178	\$201	\$215	\$177	\$177	\$200	\$210	\$187
Feed cost per lb. BF (¢)	52.0	49.8	46.6	43.0	51.0	49.6	50.5	42.0	47.9
Feed cost per cwt. milk prod.	\$1.86	\$1.78	\$1.71	\$1.55	\$1.79	\$1.79	\$1.82	\$1.54	\$1.70
Number of cows	21.7	26.2	31.1	36.8	28.0	23.2	27.0	21.7	23.3

\* Information not available.



Table 11. Feed Costs and Returns from Other Dairy Cattle and All Dairy Cattle, 1963

Items	Farm record keeping groups							Thief River Falls Duluth	
	Mankato	S.W. Assoc.	Austin	S.E. Assoc.	Minona	St. Cloud	West Central		T.V.A.
Feed per head, lbs.:									
Concentrates	864	820	932	840	672	670	895	269	546
Hay and fodder	2632	2157	1857	2019	2089	2000	1902	2555	3121
Silage	1671	3300	2016	2006	2564	3200	2811	2200	1375
Skim milk	-	-	-	12	-	-	-	-	34
Whole milk	206	229	166	123	115	255	252	276	87
Total feed cost per head	\$60.48	\$58.19	\$57.67	\$54.51	\$49.58	\$51.30	\$58.08	\$50.64	\$40.43
Net increase in value	\$87.15	\$83.83	\$86.79	\$79.37	\$80.02	\$74.88	\$83.33	\$80.68	\$80.34
Return above feed per head	\$26.67	\$25.64	\$29.12	\$24.86	\$30.44	\$23.58	\$25.25	\$30.04	\$39.91
Returns for \$100 of feed	\$162	\$153	\$151	\$157	\$161	\$153	\$153	\$174	\$199
Number of head	22.4	32.9	28.8	37.0	44.9	35.6	30.1	39.5	29.1
All Dairy Cattle									
Feed per cow, lbs.:									
Concentrates	5013	5356	4782	5355	4461	4439	5087	5249	4242
Hay and fodder	8279	8125	7451	7895	7511	8143	7257	9398	11617
Silage	9299	12888	7713	9304	12625	14069	14055	12984	6848
Total feed cost per cow	\$245.98	\$242.12	\$227.51	\$236.84	\$214.47	\$230.50	\$243.29	\$231.23	\$191.83
Value of produce per cow:									
Dairy products	\$342.46	\$316.14	\$313.69	\$344.21	\$350.36	*	\$301.60	\$296.93	\$299.76
Net inc. in value	35.72	76.98	79.27	91.64	84.65	*	96.80	103.76	101.63
Total value produced	\$428.18	\$393.12	\$392.96	\$435.85	\$435.01	\$384.56	\$398.40	\$400.69	\$401.39
Return above feed per cow	\$182.20	\$151.00	\$165.45	\$199.01	\$220.54	\$154.06	\$155.11	\$169.46	\$209.56
Returns for \$100 of feed	\$180	\$166	\$173	\$188	\$202	\$167	\$169	\$193	\$209

\* Information not available.

Table 12. Feed Costs and Returns from Market Hogs--Sow and Finishing Enterprise, 1963

Items	Farm record keeping groups*										Thief River Falls Duluth
	Mankato	S.W. Assoc.	Austin	S.E. Assoc.	Winona	St. Cloud	West Central	T.V.A.	Falls	Duluth	
Number of cases	43	94	90	82	22	24	21	7	16	29	
Feed per cwt. hogs prod.:											
Corn	331	327	340	345	243	284	253	193	114	350	
Small grain	22	50	46	60	45	95	88	84	198	220	
Commercial feeds	65	74	69	68	123**	70	88	178	101	89	
Total concentrates	418	451	455	473	411	449	429	455	413	659	
Feed cost per cwt. hogs prod.	\$11.08	\$11.38	\$11.73	\$11.36	\$10.43	\$10.91	\$11.23	\$12.28	\$10.49	\$14.68	
Net increase in value per cwt. hogs produced	\$14.40	\$13.81	\$14.29	\$13.90	\$14.24	\$14.29	\$15.00	\$19.01	\$14.41	\$19.31	
Return above feed per cwt. hogs produced	\$3.32	\$2.43	\$2.56	\$2.54	\$3.81	\$3.38	\$3.77	\$6.73	\$3.92	\$4.63	
Return for \$100 of feed	\$133	\$126	\$123	\$128	\$136	\$139	\$142	\$157	\$137	\$132	
Price rec'd per cwt. hogs sold	\$15.00	\$14.79	\$14.94	\$14.72	\$15.43	\$15.62	\$15.31	\$15.10	\$15.80	\$21.00	
Total number litters raised	46.4	45.0	40.0	34.0	30.0	11.4	27.0	17.0	***	18.8	
Number pigs born per litter	9.7	8.9	9.2	8.7	9.5	8.6	9.6	9.8	***	8.1	
Number pigs weaned per litter	7.8	7.1	7.2	7.1	7.5	6.8	7.8	8.3	***	7.0	
Number feeder pigs purchased	***	11	***	11	***	***	***	***	***	***	
Total weight feeders purch.	***	381	***	476	***	***	***	***	***	***	
Price paid per feeder pig	***	\$10.76	***	\$11.43	***	***	***	***	***	***	
Pounds of hogs produced	85769	71849	69423	57305	43028	26385	40856	16271	13735	8685	

\* Only those groups with 5 or more cases are included.

\*\* One large operation fed practically no grain but bought milling industry by-products.

\*\*\* Information not available.

Table 13. Feed Costs and Returns from Purchased Feeder Pigs, 1963

Items	Farm record keeping groups*				
	S.W. Assoc.	Austin	S.E. Assoc.	Winona	West Central
Number of cases	26	10	21	7	10
Feed per cwt. hogs produced, lbs.:					
Corn	409	303	402	296	329
Small grain	27	35	53	46	70
Commercial feeds	<u>58</u>	<u>51</u>	<u>48</u>	<u>54</u>	<u>43</u>
Total concentrates	494	389	503	396	442
Feed cost per cwt. hogs produced	\$11.47	\$10.30	\$11.62	\$9.78	\$10.20
Net increase in value per cwt. produced	\$11.25	\$11.47	\$12.26	\$13.88	\$13.28
Return above feed cost per cwt. produced	\$ -.22	\$ 1.17	\$ .64	\$ 4.10	\$ 3.08
Return for \$100 of feed	\$105	\$111	\$109	\$141	\$136
Price received per cwt. hogs sold	\$14.83	\$15.26	\$14.84	\$14.91	\$15.20
Total number of litters raised	3	-	2	9.3	1
Number of pigs born per litter	9.7	-	7.8	7.7	7.7
Number of pigs weaned per litter	6.4	-	6.3	6.2	5.8
Number of feeder pigs purchased	238	**	149	51	79
Total weight of feeders purchased	9590	**	5619	2021	3434
Price paid per feeder pig	\$11.84	\$11.21	\$10.34	\$ 9.69	\$10.50
Pounds of hogs produced	49519	70024	34959	22490	18656

\* Only those groups with 5 or more cases are included.

\*\* Information not available.

Table 14. Feed Costs and Returns from Feeder Pig Production, 1963

Items	Record keeping groups*		
	St. Cloud	River Falls	Thief
Number of cases	29	25	
Feed per litter, lbs.:			
Corn	**	301	
Small grain	**	2031	
Commercial feeds	**	589	
Total concentrates	<u>2315</u>	<u>2921</u>	
Feed cost per litter	\$63.45	\$80.68	
Net increase in value per litter	\$95.39	\$92.54	
Return above feed cost per litter	\$31.94	\$11.86	
Return for \$100 of feed	\$158	\$115	
Total number of litters	29	25.4	
Number of pigs born per litter	9.0	9.4	
Number of pigs weaned per litter	6.9	7.8	
Number of feeder pigs sold	187	**	
Price received per pig sold	\$10.61	**	
Pounds of sows sold and butchered	7402	**	
Pounds of other hogs sold and butchered	7609	**	
Pounds of hogs and pigs produced	15011	**	

\* Only those groups with 5 or more cases are included.

\*\* Information not available.

Table 15. Feed Costs and Returns from Feeder Cattle, 1963

Items	Farm record keeping groups*							Duluth	
	Mankato	S.W. Assoc.	Austin	S.E. Assoc.	Winona	St. Cloud	West Central		Thief River Falls
Number of cases	15	111	24	30	10	13	19	24	5
Feeds per cwt. beef prod., lbs.:									
Corn	528	629	547	617	638	549	549	111	183
Small grain	14	13	18	37	44			27	154
Commercial feeds	50	49	48	51	43		55	40	8
Total concentrates	592	691	613	705	725	549	631	305	254
Legume hay	175	294	414	359	323	600	411	391	421
Other hay	17	14	*	11	*			26	96
Total hay	192	308	414	370	323	600	437	487	427
Silage	293	489	689	916	901**	1800	796	980	500
Feed cost per cwt. beef prod.:									
Concentrates	\$13.19	\$14.54	\$13.66	\$15.34	\$ 9.91	\$10.34	\$13.91	\$ 6.64	\$ 4.90
Roughages	2.63	4.29	4.94	6.05	5.83	6.54	6.48	6.10	4.65
Pasture	-	.32	.40	.57	.65	.27	.20	.44	.66
Total feed costs	\$15.82	\$19.15	\$19.00	\$21.96	\$16.39	\$17.15	\$20.59	\$13.18	\$10.21
Net increase in value	\$18.70	\$13.06	\$16.17	\$18.42	\$16.89	\$16.27	\$17.53	\$15.08	\$14.16
Returns above feed cost per cwt. beef produced	\$ 2.88	\$-6.09	\$-2.83	\$-3.54	\$ .50	\$ -.88	\$-3.06	\$ 1.90	\$ 3.95
Return for \$100 of feed	\$124	\$ 80	\$ 85	\$ 98	\$103	\$109	\$ 94	\$114	\$139
Price paid per cwt. beef bt.	\$24.92	\$24.68	\$24.10	\$23.07	\$23.06	\$24.68	\$23.01	\$23.13	\$22.80
Price rec'd for feeders sold	22.15	22.33	20.49	21.24	20.78	21.10	20.52	21.31	18.59
Number of animal units	73.9	98.2	62.9	56.2	48.5	42.6	65.8	59.2	66.9
Pounds of beef produced	52391	61434	34926	34352	29269	21593	35634	33830	63455

\* Only those groups with 5 or more cases are included.

\*\* Includes 156 lbs. of high grain silage.

Table 16. Feed Costs and Returns from Beef Breeding Herds, 1963

Items	Farm record keeping groups*					
	S.W. Assoc.	Austin	S.E. Assoc.	West Central	River Falls	Duluth
Number of cases	12	5	11	6	30	11
Feed per cow, lbs.:						
Concentrates	555	314	773	1373	1007	129
Legume hay	3071	3620	4068	3183	3659	4058
Other hay	199	2562	45	302	3260	1577
Silage	3150	472	4854	6260	3363	1828
Feed cost per cow:						
Concentrates	\$19.25	\$ 7.04	\$16.52	\$30.98	\$10.59	\$ 3.18
Roughages	37.82	42.43	51.64	50.62	46.73	49.14
Pasture	22.29	14.50	27.84	23.53	7.59	9.70
Total feed cost	\$79.36	\$63.97	\$96.00	\$105.13	\$64.91	\$62.02
Total value produced	\$98.87	\$82.66	\$98.81	\$130.00	\$98.78	\$106.77
Returns above feed cost per cow	\$19.51	\$18.69	\$ 2.81	\$24.87	\$33.87	\$44.75
Returns for \$100 of feed	\$118	\$129	\$105	\$121	\$152	\$172
Pounds of beef produced	11776	**	26455	18315	**	**
Number of cows and herd bulls	32.3	41.0	41.8	27.4	37.0	36.3

\* Only those groups with 5 or more cases are included.

\*\* Information not available.

Table 17. Feed Costs and Returns from Chickens, 1963\*

Items	Farm record keeping groups**						
	Mankato	S.W. Assoc.	Austin Assoc.	S.E. Assoc.	Winona	Central	West Duluth
Number of cases	9	45	22	40	13	7	5
Feed per hen, lbs.:							
Grain	100	72	74	81	74	63	151
Commercial feeds	<u>36</u>	<u>41</u>	<u>36</u>	<u>35</u>	<u>22</u>	<u>58</u>	<u>41</u>
Total concentrates	136	113	110	116	96	121	192
Total feed cost per hen	\$3.96	\$3.51	\$3.57	\$3.54	\$2.68	\$3.43	\$4.41
Value of produce per hen:							
Eggs sold and used in home	\$4.76	\$4.57	\$5.21	\$4.73	\$4.39	\$4.60	\$4.09
Net increase in value of chickens	<u>-.07</u>	<u>-.37</u>	<u>-.46</u>	<u>-.22</u>	<u>-.50</u>	<u>-.45</u>	<u>-.72</u>
Total value produced	\$4.69	\$4.20	\$4.75	\$4.51	\$3.89	\$4.15	\$4.88
Return above feed cost per hen	\$ .73	\$ .69	\$1.18	\$ .97	\$1.21	\$ .72	\$ .47
Return for \$100 of feed	\$119	\$122	\$133	\$136	\$145	\$133	\$110
Price rec'd per dozen eggs sold (cents)	25.9	26.5	27.9	27.3	27.1	26.8	29.7
Eggs laid per hen	220	208	227	207	176	206	126
Average number of hens on farm during year	775	730	605	810	335	1432	105
Number of pullets started	256	440	***	428	***	1112	***
Percent death loss	12	6	7	9	8	9	***
Percent of hens that are pullets	93	70	***	74	***	91	***

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

\*\* Only those groups with 5 or more cases are included.

\*\*\* Information not available.

Table 18. Feed Costs and Returns from a Farm Flock of Sheep, 1963

Items	Farm record keeping groups*					
	Mankato	S.W. Assoc.	Austin	S.E. Assoc.	Thief River Falls Duluth	
Number of cases	5	17	6	13	29	9
Feed per ewe, lbs.:						
Concentrates	163	148	247	222	154	70
Legume hay	1083	659	708	642	753	546
Other hay	-	1	-	34	187	102
Silage	171	47	71	75	219	181
Feed cost per ewe:						
Concentrates	\$3.34	\$3.30	\$7.23	\$5.04	\$3.37	\$1.36
Roughages	10.83	6.18	6.63	6.18	6.14	6.08
Pasture	2.39	4.20	2.23	3.32	1.95	2.17
Total feed cost	\$16.56	\$13.68	\$16.09	\$14.54	\$11.46	\$ 9.61
Value of produce per ewe:						
Wool	\$ 4.34	\$ 7.06	\$ 5.84	\$ 5.86	\$ 6.43	\$ 4.67
Net increase in value of sheep	16.36	18.89	15.82	13.30	14.61	8.64
Total value produced	\$20.70	\$25.95	\$21.66	\$19.16	\$21.04	\$13.31
Return above feed cost per ewe	\$ 4.14	\$12.27	\$ 5.57	\$ 4.62	\$ 9.58	\$ 3.70
Return for \$100 of feed	\$128	\$203	\$135	\$134	\$184	\$138
Price per cwt. lambs sold	\$18.15	\$19.18	\$18.15	\$21.14	\$18.46	****
Price per lb. wool sold (cents)	65.3	56.0	46.0**	59.1	73.2	****
Pounds of wool per sheep sheared	8.3	9.5	9.9	9.6	8.1	****
Percent lamb crop***	130	114	98	105	114	****
Percent death loss***	16	7.8	5.3	10.6	12.4	****
Average number of ewes	26.2	54	75.6	45	84	40.3

\* Only those groups with 5 or more cases are included.  
 \*\* Incentive payment not included.  
 \*\*\* Lambs which die during month of birth are not included.  
 \*\*\*\* Information not available.



SUMMARY

When studying this report, it is important to remember that these records are only concerned with one year's operation and that a similar report for a different year would show variations in many of the figures presented in the tables. These yearly variations between areas and within areas would be mainly caused by changes in climatic conditions and general price levels which the farm manager cannot control.

The data in table 19 shows the differences in labor earnings, average capital managed and size of business between areas of the state in 1963.

Table 19. Earnings, Resources Utilized and Size of Business, 1963, by Areas

Items	S.W.		S.E.		St. Cloud		West Central		T.V.A.		Thief River Falls		Duluth
	Mankato	Assoc.	Austin	Assoc.	Winona	Cloud	Central	Central	T.V.A.	Falls	Falls	Duluth	
Number of cases	66	143	140	154	52	100	45	45	16	137	137	64	
Labor earnings	\$7092	\$2812	\$5162	\$4541	\$3619	\$2813	\$3662	\$3662	\$3148	\$4630	\$4630	\$1874	
Resources used:													
Acres per farm	288	346	260	263	303	268	291	291	368	574	574	316	
Acres in tillable land	250	301	222	216	178	171	226	226	221	460	460	167	
Average capital managed	\$96716	\$107165	\$70558	\$63565	\$65943	\$37596	\$58232	\$58232	\$35309	\$39225	\$39225	\$28960	
Number of workers	1.3	1.7	1.4	1.7	1.7	1.4	1.5	1.5	1.5	1.2	1.2	1.4	
Size of business:													
Total work units	483	567	467	563	571	448	513	513	491	466	466	378	
Total farm receipts	\$35878	\$44438	\$29204	\$27393	\$23608	\$16917	\$28166	\$28166	\$14302	\$21279	\$21279	\$12086	
Animal units of livestock	84	134	79	82	82	63	83	83	57	59	59	45	