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UNIVERSITY OF MINNESOTA
INSTITUTE OF AGRICULTURE

and

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE

Cooperating

FARM LABOR AND FARM COSTS, 1953

by

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INDEX

	Page
Introduction and definitions	1 - 2
Average inventories and financial statement	3
Costs and returns per acre for oats and barley	4 - 5
Costs and returns per acre for flax, soybeans and corn silage	6 - 7
Costs and returns per acre for corn for grain	8 - 9
Costs and returns per acre for alfalfa mixtures	10 - 11
Costs per acre of establishing grass and legume seedings	12
Land utilization and average yields	13
Costs and returns per 100 pounds feeder cattle produced	12 - 13
Costs and returns per head of dairy cattle	14 - 15
Costs and returns per head of other dairy cattle	16 - 17
Costs and returns per cow for all dairy cattle	18 - 19
Costs and returns per 100 pounds hogs produced	20 - 21
Costs and returns for chickens - per hen	22 - 23
Costs per hour of operating tractors	24 - 25
Costs of operating tillage machinery	26
Costs of operating hauling equipment	27
Costs of operating corn planters	28
Costs of operating grain drill and other grain seeding equipment	29
Costs of operating corn cultivators	30
Costs of operating fertilizer and spray equipment	31
Costs of operating hay mowers and rakes	32
Costs of operating grain binders, threshers and field choppers	33
Costs of operating swathers and combines	34
Costs of operating corn pickers	35
Costs of operating balers	35
Costs of operating portable elevators	36
Costs of operating manure loaders and spreaders	37
Summary of machinery costs and custom work hired	38 - 39
Source and use of labor by type of farm	40 - 41 - 42
Use of tractor hours by enterprise	43
Average rates of performance for field work	44
Seasonal distribution of man labor (per cent)	45

Introduction

A study of farm labor and farm costs was begun on a selected group of farms in southern Minnesota on January 1, 1951. This is part of a broad study of farm organization and factors affecting earnings of farmers in Minnesota. The specific objectives of this phase of the study are: (1) to determine the labor requirements and factors affecting labor efficiency on farms; (2) to compare the costs and returns for different crop and livestock enterprises, and (3) to obtain data on the costs of operating farm machinery.

Data were obtained from 33 farmers in 1951, 29 in 1952, and 28 in 1953. They were scattered over the southern quarter of the state. All of these men were members of the Southeast and Southwest Minnesota Farm Management Services. In connection with those services they kept records of their inventories, purchases, sales, crops produced, feeds fed, livestock changes, and farm products used in the house. In addition, they kept records of the use of their labor, power, and operations performed on their crops. These records were kept by the farmers, but were checked at intervals by the research workers to insure uniformity.

Some of the information gained in 1953 is presented in this report. Since it is hoped that this report will be used as a source of information, the data are presented with a minimum of discussion. In most of the tables the data for each farmer are presented; this will give an opportunity to study the relationships among the various items of costs and returns.

The Weather in 1953

April was cold and wet, seriously delaying grain seeding. May was normal. June temperatures were about 3 degrees above normal, with more than average rainfall; July temperatures were about normal but with much more than normal rainfall. August was warmer than normal; rainfall was heavy the first half and light the last half. September temperatures were normal but October was about 7 degrees warmer than normal; both months were extremely dry.

Methods of Computing and Presenting the Data

GENERAL ITEMS:

Man labor was charged at a uniform rate of 80 cents per hour for all labor. This rate is the average of what farmers in the area paid, or estimated they would have to pay, to a married man. It includes a charge for house, garden, and a certain amount of farm produce.

Tractor power was charged at cost for each individual farm. A weighted average was used for all tractor hours wherever the farmer used more than one tractor.

Truck was charged at 10 cents per mile.

Auto was charged at 6 cents per mile.

Horse power was charged at average cost for the farm using horses. (\$.35 per hour)

Interest charges for use of all types of farm capital was computed by taking 5 per cent of the average inventory value.

Weighted averages were used for all summaries.

CROP SUMMARIES:

Seed was charged at cost. In the cases where seed was home grown the average 1953 market price plus a cleaning charge was used.

Manure was charged at one dollar per ton plus the cost of hauling. The charge was distributed to the crops in the following way: 40 per cent to the field to which the manure was applied, and 60 per cent to other fields normally receiving manure.

Commercial fertilizer was charged at cost excluding P.M.A. refunds. The entire charge was made to the crop to which the fertilizer was applied.

Crop machinery was charged according to the number of acres on which each machine or group of machines was used for a particular crop. (For costs see computation of machinery costs).

Land charge. A uniform charge of \$10 per acre was used. This represents a close approximation of the average cash rent for land without buildings in 1953.

Building charge. No building charge was made for the storage of crops.

Prices used in determining value produced represent an average of 1953 prices received in the area.

LIVESTOCK SUMMARIES:

Feed costs include all feeds bought, home grown feeds at average 1953 farm prices and a charge for pasture ranging from \$.16 per head-month for hogs to \$2.50 per head-month for cows and feeder cattle.

Shelter costs were computed by taking 2.25 times the annual depreciation. The figure 2.25 arose because, on the 29 farms under study, it was found that an average of \$1.25 had to be spent for each \$1.00 depreciation in order to cover such outlays as interest on investment, insurance, taxes, repairs and maintenance. The resulting shelter costs were distributed between individual livestock enterprises according to floor space occupied.

Equipment costs for livestock were computed by adding together depreciation, interest on investment, repairs and maintenance.

Value produced represents the sum of products marketed, used in the house, fed to livestock, and changes in inventory.

POWER AND MACHINERY COSTS:

Depreciation was copied directly from the farmer's account book. No attempt was made to standardize depreciation schedules for similar machines except to the extent that this was done in the regular accounting work.

Shelter costs were computed in the same manner as shelter costs for livestock. They were distributed according to floor space occupied by tractors and according to initial cost of crop machinery.

Summary of Farm Earnings

Items	Average of		Items	Average of	
	18 farms ^{1/}	9 farms ^{2/}		18 farms ^{1/}	9 farms ^{2/}
Farm Receipts:			Farm Expenses:		
Dairy cows	\$ 611	\$ 413	Dairy cattle bought	\$ 39	\$ 67
Dairy products	5,769	322	Other dairy cattle bought	99	-
Other dairy cattle	1,063	88	Beef cattle bought	193	5,641
Beef cattle	848	15,926	Hogs bought	68	628
Hogs	4,440	8,076	Sheep bought	4	11
Sheep and wool	73	758	Poultry bought	185	583
Poultry	579	3,300	Miscellaneous livestock exp.	537	328
Eggs	1,240	1,254	Miscellaneous crop expense	1,069	2,503
Horses	5	6	Feed bought	2,766	5,304
Corn	784	2,758	Custom work hired	610	488
Small grain	178	1,262	Mech. power (new) incl. horses	535	862
Other crops	368	777	Mech. power (upkeep)	296	641
Mach. and equip. sold	67	185	Mech. power (gas, oil, etc.)	835	1,105
Agr. Adj. payments	46	61	Crop and gen'l. mach. (new)	1,014	1,060
Income from work off farm	306	189	Crop & gen'l. mach. (upkeep)	202	465
Miscellaneous	129	102	Livestock equip. (new)	81	374
Total farm sales	16,506	35,477	Livestock equip. (upkeep)	130	129
Increase in farm capital	821	-	Bldgs. and fences (new)	487	822
Family living from farm	520	340	Bldgs. and fences (upkeep)	369	200
Total receipts	17,847	35,817	Hired labor	555	1,016
Total expenses	11,045	26,888	Board for hired labor	92	107
Income to family & capital	6,802	8,929	Taxes	603	747
Interest on farm capital	2,160	3,588	Overhead and insurance	276	446
Unpaid family labor	635	366	Net decrease in farm capital	-	3,361
Operator's labor earnings	4,007	4,975	Total expense	11,045	26,888

Summary of Farm Inventories

Size of farm (acres)	Average of 18 farms ^{1/}		Average of 9 farms ^{2/}	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
	202		294	
Dairy cows	\$2,825	\$3,185	\$ 539	\$ 163
Other dairy cattle	2,535	2,086	106	31
Beef cattle	710	218	11,829	7,059
Hogs	1,144	1,632	2,350	2,987
Sheep	113	119	579	214
Poultry	193	207	283	267
Horses	41	42	26	23
Crops, seed, feed	4,846	5,465	11,268	12,229
Mechanical power	2,874	2,876	3,804	4,019
Crop and general machinery	3,672	4,129	5,708	5,489
Livestock equipment and supplies	939	843	1,040	1,143
Buildings, fences, etc.	9,624	9,535	9,475	10,022
Land	13,268	13,268	26,431	26,431
Total farm capital	42,784	43,605	73,438	70,077

- ^{1/} 18 farms where the major livestock enterprise is dairy cattle; 1 additional farm was omitted from this group because earnings statement was incomplete.
- ^{2/} 9 farms where the emphasis is on feeder cattle or hogs.

Costs and Returns per Acre for Oats

Farm No.	Pre-Harvest Costs								Harvest Costs			
	Man Labor	Power	Seed	Manure	Com. Fert.	Mach-inery	Others	Total	Man Labor	Power	Twine	Mach-inery
212	\$1.78	\$2.09	\$2.28	\$4.50	\$.60	\$4.62	\$ -	\$15.87	\$6.07	\$1.89	\$.91	\$1.60
311	1.71	2.85	3.39	2.10	3.72	3.15	-	16.92	.82	.29	-	7.19
105	1.79	1.89	2.09	1.00	.85	1.43	-	9.05	1.79	1.69	-	4.46
508	1.04	1.02	3.70	1.86	.66	4.52	-	12.80	.90	.72	-	4.18
111	2.46	3.13	4.24	.71	-	1.33	-	11.87	2.13	1.34	-	5.38
223	1.58	1.67	3.56	1.78	.61	2.67	-	11.87	.73	.26	-	2.94
412	3.20	1.32	3.00	3.66	.76	2.86	-	14.80	5.51	1.25	-	3.15
112	2.89	2.58	2.90	1.08	1.67	5.71	-	16.83	4.05	1.63	-	5.32
402	.91	.81	3.00	.85	1.57	3.48	1.12	11.74	1.28	1.06	-	9.77
512	1.56	1.71	2.79	2.51	.37	2.45	-	11.39	2.81	.79	-	3.38
202	2.11	2.33	3.29	.25	.67	1.41	.59	10.65	1.76	1.86	-	4.57
303	2.54	3.55	4.07	3.07	1.80	3.06	1.15	19.24	.70	.65	-	4.18
306	2.15	1.48	2.53	3.00	1.41	2.94	-	13.51	1.21	.82	-	8.85
211	2.28	1.93	3.00	3.49	.31	2.17	-	13.18	4.23	1.67	-	.83
119	3.85	3.30	3.06	3.72	1.41	2.08	-	17.42	1.09	.21	-	1.96
203	.47	.89	3.56	2.14	-	1.15	.99	9.20	.40	.53	-	.78
612	2.42	3.07	3.08	1.85	.87	2.15	-	13.44	4.85	1.50	.17	2.51
206	1.92	2.72	2.18	.61	1.85	2.35	.33	11.96	.82	1.23	-	3.46
108	2.43	2.63	3.18	6.28	3.12	3.68	.02	21.34	.29	.19	-	1.36
408	1.40	1.12	2.87	1.36	-	1.20	.22	8.17	.83	.86	-	5.65
102	1.07	1.43	1.83	4.73	.73	4.11	-	13.90	1.55	.89	-	1.17
122	.77	.63	3.22	.25	4.02	.86	.16	9.91	1.32	1.15	-	3.66
114	1.92	1.70	2.83	.91	1.05	1.72	.25	10.38	1.31	.60	-	.90
319	2.57	2.55	2.71	1.56	.40	1.40	-	11.19	.61	.47	-	.92
608	2.75	2.15	5.09	2.27	5.15	3.45	-	20.86	.90	.82	-	3.89
Ave.	1.87	1.91	3.05	1.99	1.19	2.57	.19	12.77	1.90	.97	.03	3.97

Costs and Returns per Acre for Barley

105	1.92	2.04	3.38	1.00	2.24	1.43	-	12.01	1.60	1.54	-	4.45
212	2.02	2.41	3.57	4.50	1.79	4.62	-	18.91	5.21	1.53	1.03	1.60
111	4.51	4.23	3.57	.71	.98	1.83	-	15.83	3.53	2.22	-	5.38
608	1.90	1.83	1.57	2.27	-	3.45	-	11.02	1.05	.90	-	3.89
512	1.53	1.77	3.23	2.45	6.92	2.46	-	18.36	2.65	1.08	-	3.38
Ave.	2.28	2.32	2.69	2.19	1.51	2.94	-	13.93	2.36	1.33	.17	3.79

Costs and Returns per Acre for Oats (Cont'd.)

Custom Work	Total	Land Charge	Total Cost	Value of Crop	Net Re-turn	Cost per Bu.	Yield Bu.	Seed Bu.	Hours			
									Pre-Harvest		Harvest	
									Man	Tract.	Man	Tract.
\$ -	\$10.47	\$10.00	\$36.34	\$49.01	\$12.67	\$.53	40.8	2.3	2.2	2.0	7.6	1.8
1.63	9.93	10.00	36.85	49.01	12.16	.55	69.0	3.0	2.1	2.1	1.0	.2
-	7.94	10.00	26.99	33.25	6.26	.58	46.8	2.1	2.2	1.9	2.2	1.7
-	5.80	10.00	28.60	31.89	3.29	.64	44.9	3.5	1.3	1.2	1.1	.9
-	8.85	10.00	30.72	30.88	.16	.71	43.5	2.3	3.1	2.3	2.7	1.0
4.68	8.61	10.00	30.48	30.47	-.01	.71	43.1	2.6	2.0	1.7	.9	.3
.99	10.90	10.00	35.70	33.88	-1.82	.75	47.7	3.0	4.0	2.8	6.9	2.7
-	11.00	10.00	37.83	35.04	-2.79	.77	49.4	2.9	3.6	3.1	5.1	1.7
1.05	13.16	10.00	34.90	31.93	-2.97	.78	45.0	3.0	1.1	1.0	1.6	1.2
-	6.98	10.00	28.37	25.59	-2.78	.79	36.0	2.0	2.0	1.8	3.5	.8
-	8.19	10.00	28.84	25.60	-3.24	.80	36.1	3.7	2.6	2.4	2.2	1.9
4.39	9.92	10.00	39.16	33.43	-5.73	.83	47.1	3.0	3.2	2.9	.9	.6
-	10.88	10.00	34.39	29.02	-5.37	.84	40.9	2.7	2.7	2.4	1.5	1.3
1.46	8.19	10.00	31.37	24.89	-6.48	.89	35.1	3.0	2.8	2.5	5.3	2.2
4.66	7.92	10.00	35.34	28.14	-7.20	.89	39.6	3.1	4.8	3.9	1.4	.3
4.39	6.10	10.00	25.30	19.51	-5.79	.92	27.5	3.1	.6	.6	.5	.3
1.20	10.23	10.00	33.67	23.34	-10.33	1.07	32.9	3.1	3.0	2.7	6.1	1.3
-	5.51	10.00	27.47	16.12	-11.35	1.21	22.7	2.2	2.4	2.3	1.0	1.0
4.03	5.87	10.00	37.21	18.54	-18.67	1.42	26.1	2.8	3.0	2.7	.4	.2
-	7.34	10.00	25.51	12.18	-13.33	1.49	17.2	2.7	1.7	1.2	1.2	1.0
3.73	7.34	10.00	31.24	14.20	-17.04	1.56	20.0	2.1	1.3	1.2	1.9	.8
-	6.13	10.00	26.04	10.54	-15.50	1.75	14.8	3.1	1.0	.9	1.6	1.6
3.50	6.31	10.00	26.69	8.52	-18.17	2.22	12.0	2.5	2.4	2.1	1.6	.8
1.43	3.43	10.00	24.62	6.34	-18.28	2.76	9.0	2.7	3.2	2.9	.8	.6
-	5.61	10.00	36.47	6.24	-30.23	4.15	9.0	1.7	3.4	2.6	1.1	1.0
1.27	8.14	10.00	30.91	25.30	-5.61	.87	35.6	2.6	2.3	2.0	2.4	1.1

Costs and Returns per Acre for Barley (Cont'd.)

-	7.59	10.00	29.60	47.63	18.03	.69	42.9	2.2	2.4	2.0	2.0	1.6
-	9.37	10.00	38.28	46.13	7.85	.92	41.6	2.4	2.5	2.3	6.5	1.5
-	11.13	10.00	36.96	37.00	.04	1.11	33.3	2.4	5.6	2.9	4.4	1.7
-	5.84	10.00	26.86	21.67	-5.19	1.38	19.5	1.0	2.4	2.2	1.3	1.1
-	7.11	10.00	35.47	20.49	-14.98	1.92	18.5	2.2	1.9	1.9	3.3	1.1
-	7.65	10.00	31.58	32.52	.94	1.08	29.3	1.8	2.9	2.3	2.9	1.3

Costs and Returns per Acre for Flax

Farm No.	Pre-Harvest Costs								Harvest Costs					
	Labor	Power	Seed	Manure	Com. Fert.	Mach-inery	Other Costs	Total	Labor	Power	Twine	Mach-inery	Custom Work	Total
202	\$1.72	\$2.00	\$3.62	\$.54	\$2.19	\$1.41	\$.53	\$12.01	\$2.64	\$1.84	\$ -	\$4.57	\$ -	\$9.05
105	1.70	1.99	5.10	1.00	-	1.43	-	11.22	.98	.99	-	4.46	-	6.43
213	1.33	2.49	6.91	1.37	3.70	5.01	-	20.81	1.40	2.01	-	7.91	-	11.32
408	1.35	1.36	6.18	1.43	-	1.20	.99	12.51	1.44	1.06	-	5.65	-	8.15
212	2.00	2.07	6.12	4.50	1.12	4.62	1.04	21.47	4.38	1.75	.72	1.60	-	8.45
Ave.	1.63	2.01	4.74	1.07	1.89	2.16	.48	13.98	2.25	1.69	.05	5.02	-	9.01

Costs and Returns per Acre for Soybeans

Farm No.	Pre-Harvest Costs							Harvest Costs				
	Labor	Power	Seed	Manure	Com. Fert.	Mach-inery	Total	Labor	Power	Mach-inery	Custom Work	Total
213	\$3.22	\$6.01	\$6.09	\$1.37	-	\$1.85	\$18.54	\$1.21	\$2.05	\$7.07	\$ -	\$10.33
206	2.14	3.21	6.08	.71	-	1.88	14.02	.75	.95	1.64	-	3.34
122	1.95	1.74	2.39	.25	-	1.44	7.77	1.05	.93	3.50	-	5.48
419	2.22	2.33	4.50	1.99	-	1.72	12.76	.10	.08	2.02	3.43	5.64
202	2.54	3.07	6.18	.25	-	2.00	14.04	.86	.72	4.50	-	6.08
608	6.92	5.87	6.77	2.17	-	2.71	24.44	.78	.80	3.35	-	4.94
114	2.29	1.62	6.98	1.46	-	2.61	14.96	.04	-	.37	3.50	3.91
Ave.	2.63	3.29	5.84	.96	-	1.97	14.69	.69	.80	3.16	.81	5.46

Costs and Returns per Acre for Corn Silage

Farm No.	Pre-Harvest Costs							Harvest Costs				
	Labor	Power	Seed	Manure	Com. Fert.	Mach-inery	Total	Labor	Power	Mach-inery	Custom Work	Total
108	\$3.86	\$4.36	\$2.05	\$4.30	\$3.26	\$2.94	\$20.77	\$7.34	\$5.53	\$7.17	\$ -	\$20.04
105	3.74	4.48	2.65	1.00	11.38	2.05	25.30	6.34	2.82	1.79	-	10.95
203	3.84	7.28	1.50	2.14	2.46	3.99	21.21	1.97	1.61	.78	17.65	22.01
102	2.70	3.91	1.69	4.73	-	2.61	15.64	7.48	7.17	2.41	.69	17.75
223	2.83	3.43	2.30	4.95	5.24	3.21	21.96	5.78	5.92	5.83	-	17.53
402	3.20	3.28	2.35	1.08	13.60	6.58	30.09	4.34	3.28	5.85	-	13.47
211	3.00	2.61	2.97	6.72	3.67	3.93	22.90	3.53	2.73	.27	11.41	17.94
119	3.12	3.07	1.95	3.67	13.93	4.15	29.89	7.80	4.59	8.58	-	20.97
608	6.70	6.48	2.12	5.00	3.56	3.11	26.97	4.69	4.82	11.22	-	20.73
303	4.54	6.12	2.90	3.44	7.68	5.32	30.00	5.16	2.75	.35	9.53	17.79
219	2.96	4.10	1.77	6.43	6.97	5.04	27.27	3.33	3.34	3.00	-	9.67
508	2.76	2.86	2.32	1.86	8.24	4.33	22.37	2.64	2.95	13.03	-	18.62
419	3.85	4.04	2.02	1.99	3.39	1.85	17.14	3.17	2.49	3.24	-	8.90
408	4.62	4.98	1.20	2.86	3.50	2.08	19.24	9.23	2.22	.48	15.38	27.31
311	1.91	3.04	2.93	-	13.51	3.85	25.24	4.90	4.84	11.80	-	21.54
319	5.01	4.80	1.88	1.95	20.36	2.03	36.03	4.90	4.17	9.29	-	18.36
Ave.	3.60	4.11	2.16	2.87	7.66	3.80	24.20	4.44	3.60	5.60	1.79	15.43

Costs and Returns per Acre for Flax (Cont'd.)

Land Charge	Total Cost	Value of Crop	Net Return	Cost per Bu.	Yield Bu.	Seed Bu.	Hours					
							Pre-Harvest			Harvest		
							Man	Tract.	Horse	Man	Tract.	Horse
\$10.00	\$31.06	\$38.94	\$7.88	\$2.81	11.1	.7	2.2	2.0	-	3.3	1.9	-
10.00	27.65	33.52	5.87	2.90	9.5	1.0	2.1	2.0	-	1.2	1.0	-
10.00	42.13	33.13	-9.00	4.48	9.4	.9	1.7	1.4	-	1.7	1.1	-
10.00	30.66	19.77	-10.89	5.46	5.6	1.2	1.7	1.4	-	1.8	1.1	-
10.00	39.92	22.26	-17.66	6.31	6.3	1.2	2.5	2.0	-	5.5	1.7	-
10.00	32.99	34.18	1.19	3.40	9.7	.9	2.0	1.9	-	2.8	1.6	-

Costs and Returns per Acre for Soybeans (Cont'd.)

Land Charge	Total Cost	Value of Crop	Net Return	Cost per Bu.	Yield Bu.	Seed Bu.	Hours					
							Pre-Harvest			Harvest		
							Man	Tract.	Horse	Man	Tract.	Horse
\$10.00	\$38.87	\$87.08	\$48.21	\$1.15	33.8	1.4	4.0	3.4	-	1.5	1.1	-
10.00	27.36	58.83	31.47	1.20	22.8	1.4	2.7	2.7	-	.9	.8	-
10.00	23.25	39.30	16.05	1.52	15.2	.7	2.4	2.4	-	1.3	1.3	-
10.00	28.40	40.47	12.07	1.81	15.7	1.2	2.8	2.8	-	.1	.1	-
10.00	30.12	39.40	9.28	1.97	15.2	1.4	3.2	3.1	-	1.1	.7	-
10.00	39.38	45.28	5.90	2.24	17.6	1.3	8.7	6.3	1.5	1.0	1.0	-
10.00	28.87	28.35	-.52	2.63	11.0	1.5	2.9	2.3	-	.1	-	-
10.00	30.15	49.82	19.67	1.56	19.3	1.3	3.3	3.0	.1	.9	.7	-

Costs and Returns per Acre for Corn Silage (Cont'd.)

Land Charge	Total Cost	Value of Crop	Net Return	Cost per Ton	Yield Tons	Seed Bu.	Hours					
							Pre-Harvest			Harvest		
							Man	Tract.	Horse	Man	Tract.	Horse
\$10.00	\$50.81	-	-	\$3.46	14.7	.18	4.8	4.6	-	9.2	5.9	-
10.00	46.25	-	-	3.62	12.8	.21	4.7	4.6	-	7.9	2.9	-
10.00	53.22	-	-	3.77	14.1	.15	4.8	4.8	-	2.5	1.1	-
10.00	43.39	-	-	3.95	11.0	.18	3.4	3.4	-	9.3	6.2	-
10.00	49.49	-	-	3.96	12.5	.17	3.5	3.5	-	7.2	6.0	-
10.00	53.56	-	-	4.71	11.4	.17	4.0	3.9	-	5.4	3.9	-
10.00	50.84	-	-	4.85	10.5	.23	3.8	4.4	-	4.4	3.6	-
10.00	60.86	-	-	5.32	11.4	.21	3.9	3.6	-	9.8	5.4	-
10.00	57.70	-	-	5.82	9.9	.09	8.4	6.8	2.6	5.9	5.9	-
10.00	57.79	-	-	6.26	9.2	.24	5.7	4.7	1.7	6.5	2.3	-
10.00	46.94	-	-	6.76	6.9	.19	3.7	3.5	-	4.2	2.9	-
10.00	50.99	-	-	6.80	7.5	.23	3.5	3.5	-	3.3	3.6	-
10.00	36.04	-	-	7.05	5.1	.19	4.8	4.8	-	4.0	3.0	-
10.00	56.55	-	-	7.35	7.7	.10	5.8	5.2	-	11.5	2.3	-
10.00	56.78	-	-	8.07	7.0	.21	2.4	2.3	-	6.1	3.6	-
10.00	64.39	-	-	12.99	5.0	.20	6.3	5.9	-	6.1	5.1	-
10.00	49.63	-	-	5.53	9.0	.19	4.5	4.3	.2	5.5	3.8	-

Costs and Returns per Acre for Corn (Husked)

Farm No.	Pre-Harvest Costs								Harvest Costs				
	Labor	Power	Seed	Manure	Com. Fert.	Mach.inery	Other Costs	Total	Labor	Power	Mach.inery	Custom Work	Total
108	\$4.50	\$4.71	\$2.16	\$3.76	\$3.26	\$2.94	\$.15	\$21.48	\$1.94	\$1.85	\$2.24	\$ -	\$6.03
223	3.14	3.68	2.30	2.75	5.24	3.21	-	20.32	1.62	1.69	2.36	-	5.67
508	3.08	3.13	2.32	1.85	8.24	3.60	.67	22.89	1.81	1.71	2.12	-	5.64
203	2.73	5.20	1.50	3.09	2.46	4.44	-	19.42	.43	1.16	.78	3.81	6.18
102	2.85	3.26	1.69	4.64	-	2.74	-	15.18	1.28	1.47	5.30	-	8.05
202	3.27	3.86	2.88	.44	8.72	2.13	-	21.30	1.63	1.48	1.67	-	4.78
213	3.12	6.74	2.42	1.37	5.93	2.08	-	21.66	1.29	2.13	2.95	-	6.37
512	2.64	3.01	2.33	2.87	4.80	3.00	-	18.65	1.25	.96	3.03	-	5.24
122	3.14	2.59	2.04	.47	4.50	1.47	-	14.21	1.73	1.52	3.53	-	6.78
112	4.31	4.43	1.61	2.23	5.90	3.65	-	22.13	2.25	1.78	4.32	-	8.35
311	2.91	4.76	2.93	3.02	13.52	3.87	.14	31.15	1.54	1.48	4.85	.62	8.49
408	3.06	3.42	1.65	2.34	3.50	2.97	.06	17.00	1.41	1.51	2.84	-	5.76
206	2.26	3.39	1.28	1.28	4.42	2.01	-	14.64	1.83	1.75	3.18	-	6.76
419	3.30	3.45	2.18	2.59	3.40	1.89	.67	17.48	1.50	1.58	3.33	-	6.41
105	4.07	4.69	2.42	2.03	11.38	1.98	.21	26.78	2.77	2.02	3.81	-	8.60
306	4.07	2.85	2.30	3.51	9.13	4.49	-	26.35	1.29	.90	1.38	-	3.57
111	4.21	5.47	1.63	1.35	5.34	4.17	1.86	24.03	2.64	2.45	1.06	2.90	9.05
219	5.97	8.16	1.77	3.17	6.97	5.16	.64	31.84	2.72	3.98	2.04	5.38	14.12
402	2.97	3.12	2.45	1.53	8.81	6.58	.27	25.73	1.54	1.06	5.79	-	8.39
608	4.16	4.16	2.12	3.42	3.56	3.30	-	20.72	2.19	1.82	5.64	-	9.65
212	2.91	3.36	1.68	4.04	3.21	3.02	-	18.22	1.60	1.33	2.47	-	5.40
412	3.77	2.09	1.94	3.03	5.84	4.57	-	21.24	4.22	1.71	6.54	-	12.47
612	4.74	6.58	3.18	7.55	8.86	6.61	-	37.52	4.09	3.66	5.60	-	13.35
211	4.98	4.59	2.97	5.27	3.66	3.48	-	24.95	3.55	2.05	.27	4.28	10.15
303	4.39	5.60	2.87	3.52	8.42	5.48	-	30.28	1.53	1.16	5.66	.53	8.88
119	4.58	4.44	1.95	4.15	13.93	4.15	-	33.20	2.04	1.27	5.06	-	8.37
114	2.31	2.05	2.16	1.52	4.75	2.80	.19	15.78	.73	.53	1.50	-	2.76
Ave.	3.25	3.70	2.22	2.28	6.53	3.13	.16	21.27	1.63	1.47	3.04	.21	6.35

Notes:

Costs and Returns per Acre for Corn (Husked) Cont'd.

Land Charge	Total Cost	Value of Crop	Net Re-turn	Cost per Bu.	Yield Bu.	Bu. of Seed	Hours					
							Pre-Harvest			Harvest		
							Man	Tract.	Horse	Man	Tract.	Horse
\$10.00	\$37.51	\$120.25	\$82.74	\$.41	91.8	.19	5.6	3.3	-	2.4	2.0	-
10.00	35.99	106.75	70.76	.44	81.5	.18	3.9	3.8	-	2.0	1.7	-
10.00	38.53	110.93	72.40	.46	84.7	.22	3.8	3.8	-	2.3	2.1	-
10.00	35.60	99.81	64.21	.47	76.2	.15	3.4	3.4	-	.5	.8	-
10.00	33.23	90.97	57.74	.48	69.4	.19	3.6	3.6	-	1.6	1.3	-
10.00	36.08	96.02	59.94	.49	73.3	.18	4.1	3.9	-	2.0	1.5	-
10.00	38.03	100.55	62.52	.50	76.8	.19	3.9	3.9	-	1.6	1.3	-
10.00	33.89	85.01	51.12	.52	64.9	.18	3.3	3.3	-	1.6	1.0	-
10.00	30.99	76.52	45.53	.53	58.4	.19	3.9	3.7	-	2.2	2.2	-
10.00	40.48	98.62	58.14	.54	75.3	.15	5.4	5.3	-	2.8	2.1	-
10.00	49.64	113.35	63.71	.57	86.5	.22	3.6	3.5	-	1.9	1.1	-
10.00	32.76	73.85	41.09	.58	56.4	.13	3.8	3.6	-	1.8	1.6	-
10.00	31.40	70.64	39.24	.58	53.9	.11	2.8	2.8	-	2.3	1.5	-
10.00	33.89	75.21	41.32	.59	57.4	.21	4.1	4.1	-	1.9	1.9	-
10.00	45.38	99.03	53.65	.60	75.6	.19	5.1	4.8	-	3.5	2.1	-
10.00	39.92	84.42	44.50	.62	64.4	.19	5.1	4.5	-	1.6	1.4	-
10.00	43.08	85.83	42.75	.66	65.5	.14	5.3	4.3	-	3.3	1.9	-
10.00	55.96	109.17	53.21	.67	83.3	.20	7.5	6.6	-	3.4	3.4	-
10.00	44.12	85.67	41.55	.67	65.4	.18	3.7	3.7	-	1.9	1.2	-
10.00	40.37	75.84	35.47	.70	57.9	.18	5.2	4.4	1.7	2.7	2.2	-
10.00	33.62	62.90	29.28	.70	48.0	.15	3.6	2.7	1.5	2.0	1.0	.8
10.00	43.71	79.05	35.34	.72	60.3	.15	4.7	4.6	-	5.3	3.8	-
10.00	60.87	107.19	46.32	.74	81.8	.25	5.9	5.9	-	5.1	3.3	-
10.00	45.10	78.17	33.07	.76	59.7	.25	6.2	6.1	-	4.4	2.7	-
10.00	49.16	78.72	29.56	.82	60.1	.24	5.5	4.2	1.7	1.9	1.0	-
10.00	51.57	80.09	28.52	.84	61.1	.20	5.7	5.2	-	2.5	1.5	-
10.00	28.54	36.98	8.44	1.01	28.2	.18	2.9	2.8	-	.9	.9	-
10.00	37.62	85.36	47.74	.58	65.2	.18	4.0	3.9	.1	2.0	1.6	*

* Less than .05

Costs and Returns per Acre for Alfalfa Mixtures

Farm No.	Pre-Harvest Costs					Harvesting							
	Fert. & Seed	Manure	Com. Fert.	Other	Total	Mow and Bake			Put up Hay				
						Man	Power	Mach.	Man	Power	Mach.	Custom	Twine
608	\$4.66	\$3.15	\$ -	\$.14	\$ 7.95	\$1.66	\$1.34	\$2.58	\$3.52	\$1.34	\$2.78	\$ -	\$ -
212	4.02	5.23	-	.47	9.72	1.95	2.44	3.08	4.70	3.08	1.30	-	-
311	6.35	2.49	-	.24	9.08	.85	1.43	2.38	2.23	2.95	12.67	4.32	-
306	6.35	5.64	-	.82	12.81	1.16	.91	1.69	2.66	.93	1.18	-	.63
219	5.92	3.95	-	.07	9.94	1.18	1.73	6.46	3.93	4.13	6.65	-	-
112	5.75	1.41	-	.14	7.30	1.38	1.41	1.43	2.90	2.64	5.01	-	-
508	5.25	3.80	-	.51	9.56	1.03	1.07	2.36	2.54	1.52	5.96	-	-
512	3.48	3.86	-	.08	7.42	.92	1.05	1.03	1.43	.56	.48	.44	-
303	5.55	3.00	-	.35	8.90	1.35	1.85	1.99	1.79	.59	.12	8.89	-
419	6.02	3.08	8.50	1.02	18.62	1.42	1.49	3.26	3.89	4.08	6.30	-	-
402	5.90	.85	-	.20	6.95	2.34	2.48	4.04	3.43	2.44	11.95	2.58	-
412	5.48	5.97	1.48	.23	13.16	1.45	.82	2.07	2.61	1.04	6.30	-	-
206	6.03	1.07	-	.18	7.28	.31	.47	.59	.31	.47	1.22	-	-
203	5.38	2.14	-	.26	7.78	.91	1.73	1.48	1.39	.94	1.56	8.61	-
612	3.36	1.85	-	.05	5.26	1.54	1.93	4.34	5.07	5.02	.92	3.79	-
202	5.25	.25	3.54	.49	9.53	1.04	1.27	3.15	3.10	1.49	.93	7.60	-
105	6.35	2.22	4.44	.25	13.26	1.09	1.29	2.87	3.67	2.08	2.37	-	-
111	3.23	.85	-	.23	4.31	2.43	3.74	4.84	4.92	1.64	1.47	11.96	-
211	6.19	4.47	-	.07	10.73	1.34	1.26	4.32	2.26	.57	.47	7.53	-
108	5.86	5.47	5.11	-	16.44	2.05	2.29	2.36	6.15	2.97	4.63	1.40	-
114	5.25	1.00	-	.39	6.64	.86	.77	2.78	1.15	.38	.97	8.00	-
119	4.79	4.77	.32	.84	10.72	2.01	2.04	3.92	4.90	3.94	13.32	-	-
319	5.05	1.85	-	-	6.90	1.43	1.45	6.23	1.40	.75	8.52	-	-
408	6.35	1.32	6.10	.10	13.87	1.85	2.12	1.83	5.66	2.93	6.12	.73	3.83
213	5.78	3.39	-	.22	9.39	.97	2.11	1.84	1.05	.71	.50	1.55	-
Ave.	5.25	2.81	1.02	.28	9.36	1.26	1.48	2.53	2.63	1.67	3.82	2.56	.13

Notes:

Costs and Returns per Acre for Alfalfa Mixtures (Cont'd.)

Costs					Land		Production, tons			Cost		Hours		
Put up		Silage		Total	Charge	Total Cost	Hay	Si- lage	Hay* Equiv.	per T. Hay Eq.	Times Cut	Man	Trac- tor	Horses
Man	Power	Mach.	Custom											
\$ -	\$ -	\$ -	\$ -	\$13.22	\$10.00	\$31.17	3.5	-	3.5	\$ 8.80	1.8	6.5	3.3	-
-	-	-	-	16.55	10.00	36.27	3.9	-	3.9	9.27	2.2	8.3	5.3	-
2.02	3.21	7.88	-	39.94	10.00	59.02	3.5	6.0	5.5	10.79	2.0	6.4	5.6	-
3.48	2.74	8.65	-	24.04	10.00	46.85	2.5	4.7	4.0	11.59	2.0	9.1	7.3	-
-	-	-	-	24.08	10.00	44.02	3.8	-	3.8	11.64	2.2	6.4	5.0	-
-	-	-	-	14.77	10.00	32.07	2.7	-	2.7	11.74	1.7	5.3	4.9	-
-	-	-	-	14.48	10.00	34.04	2.8	-	2.8	12.16	1.8	4.4	3.1	-
.65	.32	1.79	-	8.67	10.00	26.09	1.5	1.6	2.0	12.85	2.0	3.7	2.1	-
-	-	-	-	16.58	10.00	35.48	2.8	-	2.8	12.88	1.6	3.9	2.1	-
-	-	-	-	20.44	10.00	49.06	3.7	-	3.7	13.11	1.9	6.6	6.6	-
-	-	-	-	29.26	10.00	46.21	3.4	-	3.4	13.58	2.3	7.2	5.8	-
2.87	1.29	4.69	-	23.14	10.00	46.30	1.8	4.5	3.3	13.89	1.8	8.7	7.0	-
1.08	1.62	2.64	-	8.71	10.00	25.99	.4	4.3	1.8	14.33	1.6	2.1	2.1	-
-	-	-	-	16.62	10.00	34.40	2.4	-	2.4	14.41	2.0	2.9	1.8	-
2.49	2.38	.32	3.76	31.56	10.00	46.82	2.1	2.6	2.9	15.91	2.0	11.4	8.1	1.0
3.17	2.77	.34	3.98	28.85	10.00	48.38	1.8	3.7	3.0	16.24	2.4	9.1	5.6	-
1.23	.98	.61	-	16.19	10.00	39.45	2.0	1.0	2.4	16.62	1.7	7.5	4.4	-
-	-	-	-	31.00	10.00	45.31	2.7	-	2.7	16.81	3.0	9.2	4.3	-
-	-	-	-	17.75	10.00	38.48	2.3	-	2.3	16.93	1.7	4.5	2.4	-
-	-	-	-	21.86	10.00	48.30	2.6	-	2.6	18.85	2.6	10.2	5.6	-
-	-	-	-	14.91	10.00	31.55	1.6	-	1.6	19.26	2.2	2.5	1.6	-
.36	.20	.80	-	31.49	10.00	52.21	2.3	.5	2.5	20.75	2.0	9.1	7.3	-
3.16	3.03	8.15	-	34.12	10.00	51.02	.8	4.9	2.4	21.24	1.8	7.5	6.4	-
-	-	-	-	25.07	10.00	48.94	2.2	-	2.2	22.44	2.6	9.4	5.3	-
1.54	2.51	.54	1.51	14.83	10.00	34.22	.4	2.2	1.1	29.96	2.1	4.5	3.1	-
.78	.76	1.06	.32	19.00	10.00	38.36	2.2	1.4	2.7	14.42	2.0	5.8	4.1	-

* One ton hay equivalent is equal to three tons silage.

Costs per Acre of Establishing Grass and Legume Seedings

Farm No.	Alf. lbs.	Brome lbs.	Other, lbs.		Cost	Fertilizer Applied			Total Cost	Acres	
			Grass	Leg.		Kind	lbs.	Cost		Total	% Fert.
122	4.4	-	-	-	\$2.43	-	-	\$ -	\$ 2.43	6.8	0
105	2.8	-	2.8	-	2.19	4-24-12	141	3.29	5.48	43.1	64
412	3.3	-	1.0	-	4.75	5-20-20	66	1.82	6.57	30.2	22
508	5.2	-	-	1.0	2.93	0-45-0	108	3.76	6.69	60.1	100
112	3.8	-	3.0	1.9	3.63	6-24-12	66	3.72	7.35	31.2	100
212	7.6	-	-	.3	4.17	0-20-20	118	3.29	7.46	17.0	58
612	4.7	2.0	-	2.3	4.00	4-24-12	128	3.52	7.52	25.6	100
512	10.5	1.5	.6	1.0	6.32	0-47-0	72	2.25	8.57	85.8	100
211	2.9	9.8	-	-	4.20	0-20-10	195	4.53	8.73	20.5	100
419	3.1	4.1	3.1	3.5	4.97	6-32-0	136	3.81	8.78	14.7	100
223	7.3	2.5	-	1.2	4.55	0-30-15	139	4.30	8.85	50.5	100
206	2.2	2.3	.7	4.0	3.40	4-24-12	258	5.65	9.05	64.3	100
319	4.5	4.5	-	4.5	7.02	0-62-0	54	2.28	9.30	22.4	22
102	6.0	4.0	2.0	-	5.43	0-47-0	125	4.20	9.63	15.0	100
402	7.2	6.5	.6	.6	6.17	6-24-12	169	4.61	10.78	44.9	100
111	5.9	2.9	2.9	-	5.47	0-20-20	196	5.49	10.96	10.2	100
202	10.1	6.2	-	-	8.05	0-30-30	96	3.85	11.90	41.6	100
114	13.8	-	3.6	4.4	6.74	0-61-0	145	5.97	12.71	27.5	100
119	5.3	2.7	1.8	2.3	4.83	0-20-20	285	8.06	12.89	37.6	94
303	6.7	4.9	-	-	7.33	0-20-10	235	5.82	13.15	17.2	58
108	9.0	7.5	1.1	1.1	8.23	0-47-0	149	4.92	13.15	13.4	100
219	12.5	3.5	-	-	8.40	0-20-20	174	5.07	13.47	14.4	63
311	4.2	-	1.4	-	2.67	8-16-16	413	11.28	13.95	21.8	100
213	7.6	4.6	1.3	3.8	6.72	6-24-12	277	8.78	15.50	23.8	100
306	6.6	5.5	6.8	2.2	8.35	0-30-30	325	10.57	18.92	22.7	100
Ave.	6.6	2.6	1.1	1.5	5.12	- - -	161	4.65	9.77	30.5	88.8

Costs and Returns for Feeder Cattle - Per 100 Pounds Produced

Farm No.	Costs								Value Produced	Return Over Costs	Return per Hour
	Feed	Labor	Shel-ter	Equip-ment	Inter-est	Power	Misc. Cost	Total			
213	\$13.45	\$.88	\$.68	\$.31	\$1.27	\$.39	\$.19	\$17.17	\$19.15	\$ 1.98	\$2.59
108	17.59	1.52	.46	.10	.86	.22	.53	21.28	22.22	.94	1.30
408	14.66	1.53	1.01	.82	.98	-	.66	19.66	18.54	-1.12	.21
306	15.13	1.17	.26	.56	.99	.53	.34	18.98	16.27	-2.71	none
202	19.77	1.99	.31	1.20	1.91	.83	.10	26.11	23.06	-3.05	none
508	22.09	.90	.16	.04	1.08	.29	.24	24.80	19.81	-4.99	none
311	23.93	1.56	1.68	.14	1.41	.26	1.26	30.24	23.13	-7.11	none
402	24.24	1.97	.10	1.11	2.53	.67	.44	31.06	10.76	-20.30	none
Ave.	20.12	1.34	.47	.44	1.41	.42	.41	24.61	19.11	-5.50	none

Distribution of Acres in Farms

Crop	Farms Growing Crop				Average of All Farms		Average Yield ton or bu.	
	* Dairy	Beef & Hogs		Dairy	Beef & Hogs	Dairy	Beef & Hogs	
	No.	Ave.** Acreage	No.	Ave.** Acreage	Cattle	Hogs	Dairy	Hogs
Flax	2	12.2	3	42.4	1.3	14.1	8.2	10.0
Oats	17	36.3	8	45.6	32.5	40.6	35.7	35.5
Barley	7	14.9	-	-	5.5	-	29.3	-
Wheat	2	8.6	-	-	.9	-	26.9	-
Total Small Grain					40.2	54.7		
Corn, grain	19	47.3	9	117.6	47.3	117.6	66.6	64.0
Corn, silage	12	11.6	4	16.1	7.3	7.1	8.7	9.5
Soybeans	3	33.3	4	27.1	5.3	12.1	20.1	18.6
Total Cultivated Crops					59.9	136.8		
Alfalfa mixtures	19	38.6	8	35.7	38.6	31.7	2.7	2.7
Other tame hay	3	7.0	1	10.1	1.5	3.3	-	-
Other crops	3	13.0	1	4.9	2.1	.5	-	-
Total					42.2	35.5		
Total Crop Acres					142.3	227.0		
Rotational pasture	16	19.5	7	13.8	16.5	10.8		
Total Tillable Land					158.8	237.8		
Permanent pasture	14	27.3	5	58.7	20.1	32.6		
Farmstead	19	6.1	9	6.1	6.1	10.5		
Timber, waste and roads	19	17.6	9	17.6	17.6	13.6		
Total Farm					202.6	294.5		

* "Dairy Cattle" and "Beef and Hogs" refer to farms where the major emphasis is on Dairy Cows and Feeder Cattle - Hogs respectively.

**Average acreage on the farms where this crop is grown.

Factors of Costs and Returns for Feeder Cattle

Average Number Head	Pounds Produced	Feeds Fed, Lbs.					Labor, Hours			
		Roughages		Concentrates			Total	Feed-Water	Clean-Bed	Misc.
		Hay	Silage	Corn	Grain	Comm.				
58.3	31,690	158	1,048	346	-	11	1.1	.8	.2	.1
32.0	19,155	185	689	414	32	81	1.9	1.5	.3	.1
20.7	10,290	418	447	271	-	32	1.9	1.4	.2	.3
42.6	26,440	471	159	366	-	19	1.5	1.0	.1	.4
70.7	34,750	294	633	492	-	24	2.5	1.9	.2	.4
150.6	90,635	227	508	562	2	104	1.1	.7	.1	.3
57.7	33,640	315	862	573	4	114	1.9	1.6	.2	.1
101.3	37,630	465	2,049	310	-	65	2.5	2.1	.3	.1
66.7	35,529	296	806	459	3	68	1.7	1.3	.2	.2

Costs and Returns for Dairy Cows - Per Cow

Farm No.	Costs										Value of Product	Return Over Costs	Return per Hour
	Feed	Labor	Shel-ter	Equip-ment	Inter-est	Power	Misc. Cash	Death Loss	Total	Return Over Costs			
214	\$163.06	\$ 75.39	\$20.42	\$ 4.03	\$6.35	\$2.30	\$15.30	\$ 8.22	\$295.07	\$428.24	\$133.17	\$2.21	
113	71.37	57.30	12.16	5.86	8.60	1.15	1.52	-	157.96	272.68	114.72	2.40	
119	127.15	64.38	5.24	1.35	5.60	2.00	21.85	-	227.57	316.91	89.34	1.92	
123	141.41	54.36	2.12	9.03	6.80	1.56	29.85	-	245.13	311.46	66.33	1.78	
116	119.24	72.24	19.96	7.02	5.55	2.15	27.85	5.00	259.01	321.07	62.06	1.49	
122	120.18	71.39	13.75	5.42	4.75	2.21	24.74	-	242.44	296.56	54.12	1.41	
234	154.78	86.70	9.22	27.48	7.50	1.73	21.12	-	308.53	362.36	53.83	1.30	
314	134.70	49.91	10.83	8.64	6.85	1.62	21.00	-	233.55	256.26	22.71	1.16	
623	227.82	102.38	23.26	13.04	6.70	8.41	39.46	-	421.07	440.10	19.03	.95	
223	181.53	59.63	17.90	8.00	8.00	6.01	27.11	-	308.18	322.22	14.04	.99	
523	159.34	72.90	9.71	17.61	6.95	2.60	42.18	4.41	315.70	328.83	13.13	.94	
230	171.21	95.10	9.59	9.10	7.65	3.53	33.64	-	329.82	313.28	-16.54	.66	
423	210.90	98.00	24.75	12.53	8.05	3.49	47.35	-	405.07	386.37	-18.70	.65	
330	150.16	91.23	26.15	15.68	6.25	7.90	23.71	-	321.08	298.34	-22.74	.60	
619	137.84	61.59	5.45	4.63	7.70	3.93	15.88	-	237.02	199.89	-37.13	.32	
222	173.85	76.86	6.41	11.25	8.55	2.91	35.67	-	315.50	276.83	-38.67	.40	
217	141.20	85.53	8.03	7.66	9.75	2.39	25.66	-	280.22	238.41	-41.81	.41	
130	155.98	114.88	23.26	15.30	7.15	1.51	39.92	-	358.00	273.46	-84.54	.21	
413	137.47	71.98	16.36	33.28	7.30	1.22	15.50	11.06	294.17	185.13	-109.04	none	
430	210.20	64.08	13.66	10.92	6.65	1.77	19.40	7.15	333.83	152.29	-181.54	none	
Ave.	153.75	74.21	13.00	11.14	7.09	2.79	26.18	1.99	290.15	303.74	13.59	.95	

Factors of Costs and Returns for Dairy Cows - Per Cow

Farm No.	No. of Cows	Pounds Butter-fat	Feeds Fed, lbs.				Total	Labor, Hours		Misc.		
			Hay	Silage	Corn	Concentrates		Feed-Water	Clean Milk-ing*			
214	30.9	362	3,430	7,120	3,081	424	447	94	20	16	48	10
113	16.2	283	2,592	10,494	-	93	93	72	10	4	55	3
119	16.8	310	2,381	7,917	827	1,724	277	80	15	8	55	2
123	22.1	337	6,425	-	1,736	832	308	68	16	8	43	1
116	22.2	331	3,153	6,464	1,672	872	71	90	18	11	54	7
122	18.4	326	5,434	869	1,007	565	489	89	25	11	51	2
234	28.2	348	4,610	4,610	1,410	718	1,174	108	24	14	66	4
314	25.5	283	6,196	6,902	1,735	263	148	62	11	8	42	1
623	13.2	495	5,152	10,000	2,227	2,715	936	128	32	17	73	6
223	20.0	321	6,500	3,000	1,568	2,500	268	75	15	13	44	3
523	31.5	312	6,857	5,206	1,440	406	573	91	20	14	54	3
230	21.9	348	5,297	8,493	1,856	1,441	309	119	19	18	82	-
423	15.0	432	4,800	12,567	3,237	1,758	193	122	23	15	81	3
330	7.8	312	2,179	19,487	2,010	123	277	114	41	4	66	3
619	25.5	222	6,118	6,314	1,144	788	172	77	17	25	35	-
222	19.2	302	6,510	7,031	1,753	1,645	346	96	26	15	53	2
217	12.7	263	945	11,653	2,381	894	286	107	41	14	52	-
130	13.8	286	4,563	7,611	1,505	529	778	144	43	17	79	5
413	13.2	210	5,076	8,939	513	279	704	90	30	7	51	2
430	18.6	199	5,161	7,634	4,065	1,343	64	80	12	7	60	1
Ave.	19.6	314	4,904	6,824	1,768	952	402	93	21	13	56	3

* Includes milking and caring for milk and milking equipment.

Costs and Returns for Other Dairy Cattle - Per Head

Farm No.	Costs							Return Over Costs	Return per Hour
	Feed	Labor	Shel-ter	Inter-est	Power	Misc. Cash	Total		
423	\$48.21	\$ 9.03	\$17.79	\$ 7.30	\$.97	\$3.53	\$86.83	\$19.58	\$2.53
113	34.72	8.56	22.14	13.32	.92	7.20	86.86	18.53	2.53
119	39.22	11.17	4.23	3.79	.18	5.94	64.53	8.07	1.38
222	58.77	13.15	2.06	4.02	1.96	1.04	81.00	1.17	.87
314	49.91	9.09	7.84	4.56	1.02	2.71	75.13	1.12	.90
130	50.72	17.64	3.00	4.28	.32	1.12	77.08	- 2.48	.69
623	45.63	17.44	6.05	4.49	2.23	5.77	81.61	- 2.64	.68
123	43.41	10.96	1.61	3.93	.52	.09	60.52	- 5.80	.38
523	68.22	12.20	1.17	3.40	1.41	1.89	88.29	-11.50	.05
217	52.77	5.97	1.08	5.84	.40	.39	66.45	-16.51	none
619	66.80	11.74	2.05	4.77	1.26	1.58	88.20	-18.93	none
430	61.00	5.97	2.41	4.82	.55	1.47	76.22	-20.09	none
116	42.74	18.70	7.00	3.18	.15	3.76	75.53	-20.81	none
330	47.57	18.95	6.04	3.46	3.53	1.28	80.83	-22.41	none
214	58.32	7.25	3.47	4.26	.01	.09	73.40	-25.12	none
230	80.81	12.35	2.07	3.54	1.62	.49	100.88	-33.41	none
223	77.42	15.10	18.00	4.30	.93	8.22	123.97	-35.75	none
413	53.38	14.40	14.40	2.23	.36	.24	85.01	-39.42	none
122	48.49	14.98	3.77	2.79	.71	-	70.74	-41.32	none
234	67.10	26.25	12.89	3.72	2.23	8.78	120.97	-52.87	none
Ave.	57.53	12.38	5.22	4.39	1.02	2.35	82.89	-16.74	-.28

Factors of Costs and Returns for Other Dairy Cattle - Per Head

Farm No.	No. Head	Pounds Butter-fat	Feeds Fed, Lbs.			Concen- trates	Skim Milk	Whole Milk	Labor, Hours		
			Hay	Roughages	Silage				Total	Feed- Water	Clean -Bed
423	16.7	432	1,198	1,617	501	-	593	11	5	3	3
113	8.9	283	955	4,494	11	-	232	11	8	1	2
119	10.4	310	913	3,365	522	-	145	14	12	2	*
222	25.3	302	1,344	1,304	1,415	-	219	16	7	4	5
314	29.6	283	1,081	2,973	619	-	302	11	4	2	5
130	27.8	286	1,870	3,561	617	-	165	22	13	5	4
623	18.5	495	1,621	2,919	461	1,018	177	22	8	7	7
123	29.2	337	1,472	-	637	-	283	14	8	4	2
523	50.9	312	2,004	2,554	1,050	-	156	15	9	3	3
217	35.1	263	114	5,584	1,089	-	121	7	6	*	1
619	34.1	222	2,463	2,376	533	-	588	15	5	5	5
430	56.9	199	2,179	6,889	400	-	48	7	4	1	2
116	16.3	331	2,331	2,485	333	-	32	23	13	8	2
330	10.1	312	1,782	4,356	566	-	51	24	17	0	7
214	32.0	362	1,688	625	1,532	-	107	9	8	1	*
230	26.1	348	2,605	3,908	1,456	-	229	15	7	5	3
223	15.2	321	2,632	1,316	1,617	-	277	19	6	7	6
413	10.9	210	1,284	1,651	449	323	320	18	16	0	2
122	22.3	326	2,018	179	370	-	46	19	11	4	4
234	34.2	348	2,982	936	758	231	350	33	18	8	7
Ave.	25.5	314	1,806	2,851	797	65	216	16	9	3	4

* Less than .5

Costs and Returns for All Dairy Cattle - Per Cow

Farm No.	Costs										Return Over Costs	Return per Hour
	Feed	Man Labor	Shelter	Equip-ment	Inter-est	Power	Misc. Cash	Death Loss	Total	Value Produced		
113	\$ 90.45	\$ 62.00	\$24.32	\$ 5.86	\$15.92	\$1.66	\$ 5.47	\$ -	\$205.68	\$330.58	\$124.90	\$ 2.41
214	223.46	82.89	24.02	4.03	10.76	2.31	15.39	8.22	371.08	478.24	107.16	1.83
119	151.43	71.30	7.86	1.35	7.94	2.10	25.53	-	267.51	361.85	94.34	1.86
123	198.76	68.85	4.25	9.03	11.99	2.25	29.97	-	325.10	383.76	58.66	1.48
116	150.62	85.97	25.09	7.02	7.89	2.26	30.61	5.00	314.46	361.25	46.79	1.24
314	192.64	60.46	19.92	8.65	12.14	2.80	24.15	-	320.76	344.76	24.00	1.12
623	151.03	65.65	16.43	6.72	6.75	5.97	24.62	-	277.17	285.11	7.94	.90
122	178.95	89.54	18.32	5.42	8.13	3.07	24.73	-	328.16	332.21	4.05	.84
423	264.59	108.05	44.55	12.53	16.18	4.56	51.28	-	501.74	504.83	3.09	.82
523	269.57	92.61	10.98	18.23	12.44	4.89	45.24	4.41	458.37	452.92	- 5.45	.75
234	236.15	118.54	23.12	29.22	12.01	4.43	31.77	-	455.24	444.95	- 10.29	.73
223	240.37	71.11	31.40	8.17	11.27	6.72	33.36	-	402.40	389.27	- 13.13	.65
222	251.29	94.20	9.11	11.25	13.85	5.49	37.05	-	422.24	385.12	- 37.12	.48
330	211.76	115.76	33.97	15.68	10.73	12.47	25.37	-	425.74	373.97	- 51.77	.44
230	267.52	109.81	12.05	9.11	11.87	5.46	34.22	-	450.04	393.69	- 56.35	.39
619	227.16	77.27	8.20	4.63	14.08	5.63	18.00	-	354.97	292.51	- 62.46	.15
217	287.03	102.03	10.31	8.38	25.88	3.50	26.74	-	463.87	376.44	- 87.43	.11
130	258.16	150.40	29.06	15.55	15.77	2.16	42.18	-	513.28	423.75	- 89.53	.69
413	181.54	83.88	28.26	33.28	9.14	1.52	15.70	11.06	364.38	222.79	- 141.59	none
430	396.78	82.33	21.02	10.91	21.39	3.44	23.87	7.15	566.89	323.95	- 242.94	none
Ave.	228.54	90.29	19.57	11.35	12.80	4.12	29.24	1.99	397.90	389.72	- 8.18	.73

Factors of Costs and Returns for All Dairy Cattle - Per Cow

Farm No.	No. Cows	Pounds		Feeds Fed, lbs.			Total	Labor, Hours			Misc.
		Butter-fat	Roughages	Silage	Concentrates	Skim Milk		Whole Milk	Feed-Water	Clean -Bed	
113	16.2	283	3,117	12,963	99	-	127	14	5	55	3
214	30.9	362	5,178	7,767	5,537	-	111	28	18	48	10
119	16.8	310	2,946	10,000	3,151	-	90	23	9	55	2
123	22.1	337	8,371	-	3,718	-	374	26	13	44	3
116	22.2	331	4,865	8,288	2,859	-	24	27	18	54	8
314	25.5	283	7,451	10,353	2,865	-	351	16	10	42	8
623	13.2	495	7,424	14,091	6,525	1.427	248	44	26	73	15
122	18.4	326	7,880	1,087	2,510	-	56	38	16	51	7
423	15.0	432	6,133	14,367	5,746	-	660	29	18	82	6
523	31.5	312	10,095	9,333	4,116	-	253	34	19	54	9
234	28.2	348	8,227	5,745	4,221	281	424	46	24	66	12
223	20.0	321	8,500	4,000	5,564	-	211	20	17	44	8
222	19.2	302	8,281	8,750	5,608	-	289	36	20	52	10
330	7.8	312	4,487	25,127	3,143	-	66	63	4	66	12
230	21.9	348	8,402	13,151	5,342	-	273	27	24	82	4
619	25.5	222	9,412	9,490	2,817	-	787	23	31	36	7
217	12.7	263	1,260	27,086	6,570	-	335	58	15	52	3
130	13.8	286	8,333	14,782	4,056	-	332	69	27	79	13
413	13.2	210	6,136	10,303	1,867	267	264	44	7	51	3
430	18.6	199	11,825	28,704	6,694	148	148	24	12	59	8
Ave.	19.6	314	7,252	10,531	4,157	84	281	32	17	56	8

* Includes milking, handle milk, and wash equipment.

Costs and Returns for Hogs - Per 100 Pounds

Farm No.	Costs					Value Produced	Return Over Costs	Return per Hour
	Feed	Man Labor	Shelter	Equip-ment	Inter-est			
130	\$15.80	\$3.86	\$1.70	\$.75	\$1.05	\$24.83	\$12.57	\$3.40
223	9.20	.82	.27	.16	.27	11.33	10.99	11.54
123	11.09	1.25	.19	.41	.21	13.51	10.13	7.27
430	12.47	.69	.27	.34	.36	14.68	9.98	12.39
623	12.39	3.32	.27	.65	.77	17.45	9.72	3.14
119	12.07	.83	.28	.04	.30	14.01	9.59	10.05
125	11.68	.99	.19	.46	.46	14.68	8.78	7.88
519	10.94	1.06	-	.48	.76	13.73	8.74	7.40
317	11.36	1.00	.52	.23	.31	14.34	8.65	7.69
224	11.76	.71	.20	.05	.39	13.58	8.65	10.58
113	10.80	1.00	.54	.14	.31	13.14	8.61	7.71
419	11.84	1.51	.02	.40	.36	14.56	8.32	5.22
217	10.10	1.45	1.32	.07	.30	13.95	8.02	5.23
322	11.49	.98	.30	1.16	.15	15.04	7.35	6.80
234	12.12	2.00	.48	.33	.35	15.82	6.93	3.57
213	13.37	1.43	.09	.24	.22	16.08	6.80	4.62
314	13.08	.90	1.90	.41	.37	17.39	6.78	6.81
133	11.09	1.41	1.33	.77	.47	15.53	5.71	4.04
523	12.42	1.43	.08	1.19	.19	15.60	4.32	3.21
230	13.55	2.02	.71	.84	.38	17.58	3.20	2.07
330	17.27	4.81	.55	.37	.51	26.46	-2.75	.34
Ave.	11.90	1.18	.33	.34	.36	14.74	8.43	6.52

Factors of Costs and Returns for Hogs - Per 100 Pounds Produced

Farm No.	Pounds Produced	Feeds Fed, Lbs.			Skim Milk per Litter	Pigs Weaned	Labor, Hours			Misc.
		Corn	Small Grain	Comm. Feed			Feed-Water	Clean-Bed	Misc.	
130	10,610	166	205	132	9	9.8	4.8	2.1	1.9	.8
223	41,240	273	4	53	-	4.9	1.0	.6	.1	.3
123	28,185	311	33	61	-	7.1	1.6	1.0	.2	.4
430	85,975	384	25	55	-	7.3	.8	.4	.1	.3
623	3,000	327	21	27	958	5.5	4.1	2.9	.7	.5
119	74,680	322	31	69	-	7.6	1.0	.6	.2	.2
125	60,930	315	29	81	31	7.1	1.2	.5	.1	.6
519	18,655	129	157	69	-	7.9	1.3	1.2	*	.1
317	55,395	281	85	48	-	8.7	1.3	.8	.1	.4
224	55,480	352	14	53	-	7.6	.9	.5	.2	.2
113	31,415	283	79	41	-	7.5	1.2	.8	.2	.2
419	58,105	303	112	41	11	3.9	1.9	1.1	.1	.7
217	14,745	258	116	33	-	7.2	1.8	1.2	.4	.2
322	10,042	360	16	53	-	none	1.2	.7	.1	.4
234	24,635	398	24	40	-	7.7	2.5	1.8	.2	.5
213	53,775	304	29	122	-	7.6	1.8	.9	.4	.5
314	11,860	408	18	87	-	7.8	1.1	.8	.1	.2
133	8,395	404	-	26	-	none	1.8	1.2	.2	.4
523	38,110	404	25	65	-	7.2	1.8	1.2	.2	.4
230	2,385	470	63	-	-	none	2.5	2.4	.1	0
330	10,150	560	5	75	-	6.3	6.0	4.0	.5	1.5
Ave.	33,227	325	46	63	8	7.0	1.5	.9	.2	.4

* Less than .05

Costs and Returns for Chickens - Per Hen

Farm No.	Costs					Value of Eggs	Value of Poultry	Total	Return Over Costs	Return per Hour			
	Feed	Man Labor	Shel-ter	Equip-ment	Inter-est						Power	Misc. Cost	
217	\$2.66	\$1.34	\$.15	\$.08	\$.06	\$.01	\$.43	\$ 4.73	\$7.61	\$.77	\$8.38	\$3.65	\$2.97
125	3.42	.55	-	.73	.02	.06	.08	4.86	7.36	.06	7.42	2.56	4.53
122	3.99	1.26	.36	.15	.05	.06	.08	5.95	8.36	.07	8.43	2.48	2.38
133	2.39	.85	.04	.18	.05	.14	-	3.65	4.94	.08	5.02	1.37	2.09
314	2.24	.53	.64	.32	.04	.01	-	3.78	5.05	-.18	4.87	1.09	2.43
222	5.26	1.24	.38	.09	.05	.16	.08	7.26	7.90	.08	7.98	.72	1.27
214	4.17	1.71	.29	.03	.08	.01	.02	6.31	6.62	.36	6.98	.67	1.11
623	5.33	1.76	.11	.10	.06	.07	.07	7.50	8.29	-.14	8.15	.65	1.10
413	5.03	.93	.39	.09	.07	.02	.33	6.86	6.98	.31	7.29	.43	1.17
116	4.83	2.26	.19	.09	.06	.05	.08	7.56	8.14	-.51	7.63	.07	.82
519	4.17	1.03	.11	.03	.09	.03	.15	5.61	5.17	.27	5.44	-.17	.67
317	4.84	.99	.45	.15	.05	.05	.26	6.79	6.42	.20	6.62	-.17	.66
123	4.36	2.58	.23	.58	.10	.09	.10	8.04	7.85	-.57	7.28	-.76	.57
130	3.20	1.73	.46	.48	.06	.06	-	5.99	5.01	.13	5.14	-.85	.41
223	4.88	2.50	.99	.32	.04	.16	.15	9.04	7.93	.12	8.05	-.99	.48
419	4.39	2.58	.09	1.18	.10	.05	.22	8.61	5.45	1.28	6.73	-1.88	.22
523	4.19	2.23	.71	.32	.04	.08	.01	7.58	5.51	.11	5.62	-1.96	.10
230	4.97	3.45	.30	.63	.10	.21	.41	10.07	8.03	.02	8.05	-2.02	.33
423	7.73	2.05	.30	.14	.05	.05	-	10.32	7.47	.25	7.72	-2.60	none
430	4.87	2.47	-	.30	.07	-	.31	8.02	5.50	-.24	5.26	-2.76	none
213	5.60	2.99	.26	.40	.04	.01	-	9.30	3.27	.19	3.46	-5.84	none
119	9.64	2.14	.86	.10	.05	.16	.67	13.62	6.67	.88	7.55	-6.07	none
Ave.	4.56	1.54	.32	.22	.06	.06	.15	6.91	6.94	.18	7.12	.21	.91

Factors of Costs and Returns for Chickens - Per Hen

Farm No.	No. Hens	No. Eggs Prod.	Lbs. Meat Prod.	Feeds Fed, lbs.			Labor Hours			Misc.	
				Grain	Comm. Feeds	Skim Milk	Total	Feed-Water	Clean		Handle Eggs
217	290	208	3.4	72	30	-	1.68	.96	.07	.65	-
125	298	213	3.8	68	46	-	.68	.30	-	.37	.01
122	621	237	4.0	80	41	-	1.58	.69	.07	.69	.13
133	153	149	none	40	30	-	1.06	.44	.05	.43	.14
314	140	140	-.7	26	40	-	.66	.19	.06	.19	.22
222	358	231	5.1	39	107	-	1.55	.73	.21	.49	.12
214	381	201	4.8	56	60	-	2.14	1.14	.06	.93	.01
623	239	247	3.0	131	50	13	2.20	1.15	.18	.78	.09
413	615	210	4.7	68	71	4	1.17	.50	.11	.44	.12
116	297	216	4.6	104	47	-	2.82	.94	.41	1.40	.07
519	420	149	4.8	72	29	-	1.28	.69	.02	.43	.14
317	199	207	7.3	97	46	-	1.23	.73	.03	.35	.12
123	98	239	5.7	95	34	-	3.23	1.94	.11	.57	.61
130	74	147	1.8	96	18	-	2.16	1.08	.15	.83	.10
223	181	224	5.0	122	47	-	3.12	1.54	.40	1.10	.08
419	158	174	7.3	85	52	3	3.22	1.50	.11	1.02	.59
523	280	157	4.7	78	46	-	2.79	1.41	.05	1.13	.20
230	91	247	8.9	32	94	-	4.32	2.54	.61	1.01	.16
423	259	210	4.6	71	61	-	2.57	.85	.17	1.46	.09
430	97	156	7.8	90	60	-	3.09	1.73	.31	.83	.22
213	70	120	7.8	101	63	-	3.74	2.23	.18	1.26	.07
119	118	225	17.4	211	100	-	2.68	1.02	.11	.83	.72
Ave.	247	203	4.4	78	54	1	1.92	.91	.13	.74	.14

Cost per Hour of Operating Tractors

Farm No.	Depre- cia- tion	Inter- est @ 5%	Fuel	Oil and Grease	Shut- ter	Repair and Maint.	Serv- icing	Cost per Hour	Hours Used
<u>Group I 11 - 14 Rated D.H.P.</u>									
233	\$.10	\$.04	\$.19	\$.01	\$.02	\$.08	\$.06	\$.50	300
243	.10	.02	.26	.02	-	.19	.02	.61	252
432	1.20	.47	.36	.02	-	.55	-	2.60	125
<hr/>									
Ave.	.30	.11	.25	.02	.01	.21	.03	.93	226
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<u>Group II 15 - 20 Rated D.H.P.</u>									
333	-	-	.30	.03	.03	.01	.02	.39	210
240	-	-	.32	.02	.01	.05	.04	.44	465
533	.10	.05	.21	.01	.01	.04	.03	.45	1228
440	-	-	.25	.05	-	.14	.07	.51	264
629	-	-	.30	.02	*	.22	.05	.59	458
427	.10	.04	.29	.04	-	.14	.02	.63	1120
235	.28	.12	.12	.02	.02	.05	.03	.64	703
729	.21	.03	.25	.05	-	.07	.05	.66	321
243	.21	.04	.25	.02	-	.21	.01	.74	786
540	.12	.06	.36	.03	-	.18	.01	.76	909
629	.18	.03	.19	.02	.01	.28	.06	.77	600
323	.12	.02	.31	.01	-	.31	.01	.78	558
229	.22	.16	.30	.07	.01	.02	.01	.79	514
523	.27	.09	.20	.07	.02	.14	.01	.80	511
729	.18	.02	.36	.09	.01	.10	.04	.80	668
327	.37	.13	.25	.03	.02	.01	.01	.82	295
332	.22	.10	.01	.01	.22	.22	.04	.82	618
529	.27	.03	.37	.02	-	.07	.07	.83	299
523	.33	.09	.21	.07	.01	.13	.01	.85	716
523	.33	.13	.27	.07	.02	.04	.01	.87	732
323	.24	.07	.28	.01	-	.22	.06	.88	1097
633	.37	.09	.30	.03	.01	.10	.01	.91	486
633	.22	.03	.41	.05	.01	.17	.03	.92	632
529	.39	.10	.18	.01	.01	.21	.06	.96	448
240	.46	.08	.25	.03	.01	.07	.06	.96	294
233	.36	.05	.37	.06	.02	.10	.03	.99	413
733	.47	.06	.23	.11	.01	.09	.04	1.01	181
235	.34	.16	.32	.11	.08	-	-	1.01	102
440	.37	.12	.41	.05	-	.07	*	1.02	412
340	.17	.02	.32	.05	.01	.52	.01	1.10	770
334	.11	*	.23	.01	.03	.72	.03	1.13	570
344	.43	.18	.36	.02	-	.16	.01	1.16	464

* less than 1/2 of 1 cent

Cost per Hour of Operating Tractors (Cont'd.)

Farm No.	Depre- cia- tion	Inter- est 5%	Fuel	Oil and Grease	Shelt- er	Repair and Maint.	Serv- icing	Cost per Hour	Hours Used
<u>Group II 15 - 20 Rated D.H.P. (Cont'd.)</u>									
229	\$.41	\$.09	\$.27	\$.14	\$.01	\$.22	\$.02	\$1.16	362
424	.37	.18	.47	.01	.01	.10	.04	1.18	550
232	.33	.09	.24	.03	.03	.45	.01	1.18	300
226	.21	.05	.26	.08	.01	.58	.03	1.22	446
432	.22	.12	.37	.03	.02	.46	-	1.22	279
324	.17	.03	.40	.07	.13	.32	.14	1.26	70
232	.53	.22	.35	.03	.03	.16	.03	1.35	284
324	.60	.14	.51	.06	.01	.27	-	1.59	268
340	.98	.25	.23	.05	.07	.24	-	1.82	82
729	.39	.29	.46	.13	-	1.27	-	2.54	39
Ave.	.23	.07	.29	.04	.01	.19	.03	.86	489
<u>Group III 22 - 27 Rated D.H.P.</u>									
332	0	0	.56	.01	.01	.02	.01	.61	294
540	.19	.08	.36	.02	-	.02	.02	.69	766
235	.21	.02	.43	.05	.01	.02	.02	.76	706
226	.25	.12	.33	.08	.01	.01	.04	.84	768
344	.22	.07	.48	.03	-	.05	*	.85	686
629	.42	.17	.28	.02	.01	.02	-	.92	770
233	.26	.09	.42	.06	.02	.07	.06	.98	257
529	.28	.10	.46	.04	.01	.06	.06	1.01	774
733	.41	.16	.30	.14	*	.11	.02	1.14	540
240	.41	.13	.40	.03	.01	.09	.06	1.13	555
432	.23	.08	.74	.03	.01	.04	*	1.13	529
223	.29	.05	.40	.01	.08	.31	.02	1.16	701
323	.08	.02	.53	*	-	.53	.03	1.19	1024
333	.48	.13	.39	.04	.03	.24	.01	1.32	476
327	.59	.13	.50	.05	-	.13	-	1.40	313
334	.46	.15	.65	.03	.04	1.11	.06	2.50	463
Ave.	.28	.09	.44	.04	.01	.18	.03	1.07	601
<u>Group IV 30 and Over Rated D.H.P.</u>									
540	.15	.02	.98	.06	-	.02	.01	1.24	478
327	.56	.12	.53	.06	.01	.02	.01	1.31	450
629	.46	.70	.20	.02	.02	-	.23	1.63	88
Ave.	.36	.13	.71	.05	.01	.02	.03	1.31	339

* less than 1/2 of 1 cent

Cost of Operating Tillage Machinery

Farm No.	Original Cost	Depreciation	Interest	Shel- tar	Repair and Upkeep	Ser- vic- ing	Total Cost	Acres of Use*	Cost per Acre
243	\$262	\$ 23	\$ 4	\$ 1	\$ 63	\$17	\$108	146	\$.74
324	150	20	1	5	25	9	60	67	.89
529	370	30	11	2	48	98	189	201	.94
226	570	47	5	4	45	48	149	155	.96
323	989	65	29	5	203	89	391	366	1.07
333	297	36	6	6	37	15	100	88	1.14
235	833	51	31	17	122	48	269	232	1.16
327	1774	99	59	10	48	4	220	188	1.16
540	602	88	24	-	115	15	242	205	1.18
440	397	40	13	10	3	19	85	61	1.40
223	762	71	15	8	17	13	124	85	1.46
334	882	96	34	16	45	12	203	139	1.47
340	460	22	2	13	-	43	80	53	1.51
232	643	47	16	-	25	24	112	74	1.52
633	1500	150	49	7	64	38	308	203	1.52
240	1288	81	45	20	23	47	216	135	1.60
332	972	47	21	9	36	30	143	82	1.74
729	957	71	26	3	62	17	179	92	1.94
733	497	52	22	1	18	39	132	64	2.06
229	219	35	3	5	82	16	141	68	2.09
427	853	87	32	•	51	47	217	94	2.31
432	3249	279	66	21	72	13	451	125	2.45
533	368	38	14	18	41	25	136	53	2.54
344	972	292	33	15	47	13	400	156	2.57
233	545	107	19	6	45	22	199	77	2.59
424	537	54	16	7	31	29	137	50	2.71
523	1953	234	54	11	203	20	522	186	2.81
629	3944	252	136	8	279	51	726	239	3.03
Ave.	959	90	28	8	66	31	223	132	1.69

*refers to acreage planted this year

Cost of Operating Hauling Equipment

Farm No.	Original Cost	Depreciation	Interest	Shelter	Repair and Upkeep	Servicing	Total Cost	Acres Used*	Cost per Acre
332	\$ 40	\$ 2	\$ -	\$ -	\$ 3	\$ 25	\$ 30	110	\$.27
633	495	39	19	2	15	19	94	310	.30
340	80	8	1	2	3	10	24	67	.36
327	863	50	30	5	8	-	93	235	.39
729	249	22	8	1	18	8	57	126	.45
529	590	60	14	3	16	26	119	247	.48
232	175	15	6	-	4	11	36	73	.49
629	334	23	9	1	86	27	146	279	.52
323	350	35	4	2	120	56	217	412	.53
235	720	62	16	15	40	16	149	280	.53
344	713	53	29	11	29	7	129	227	.57
333	415	40	8	9	-	6	63	108	.58
427	120	12	2	-	41	12	67	113	.59
223	440	38	10	4	7	4	63	105	.60
733	149	10	4	-	16	27	57	93	.62
243	383	33	10	1	46	9	99	146	.68
229	240	30	7	5	6	8	56	81	.69
324	332	37	7	11	11	-	66	85	.78
440	289	29	9	7	-	10	55	61	.92
233	692	47	19	7	5	17	95	102	.93
334	375	37	14	7	65	22	145	139	1.04
226	981	93	33	8	21	53	208	163	1.28
540	941	164	35	-	146	2	347	245	1.42
240	1749	127	57	27	14	31	256	166	1.54
424	385	39	9	5	56	9	118	75	1.57
523	2103	215	52	12	68	16	363	204	1.78
533	610	56	18	30	54	21	179	81	2.22
432	2409	297	83	16	24	10	430	166	2.60
Ave.	615	60	18	7	33	16	134	161	.84

* refers to total acreage from which crops are taken this year

Cost of Operating Corn Planters

Farm No.	Original Cost	Depreciation	Interest	Shelter	Repair and Upkeep	Servicing	Total Cost	Acres Used*	Cost per Acre
333	\$ 30	\$ -	\$ -	\$ -	\$ 1	\$ 3	\$ 4	48	\$.09
334	-	-	-	-	9	2	11	115	.09
229	-	-	-	-	-	4	4	41	.10
440	-	-	-	-	5	4	9	38	.24
243	100	10	1	-	7	8	26	109	.24
323	360	24	6	2	13	16	61	239	.26
327	375	16	12	2	2	-	32	124	.26
540	115	27	4	-	21	3	55	176	.31
226	50	-	-	-	8	15	23	72	.33
344	261	20	8	4	-	4	36	93	.38
729	175	7	5	1	-	6	19	44	.43
529	227	15	8	1	-	28	52	118	.44
235	650	40	30	13	8	5	96	204	.47
332	80	5	-	1	2	8	16	31	.52
233	140	7	4	1	6	7	25	44	.56
432	307	31	7	2	10	4	54	88	.61
523	218	44	8	1	9	8	70	114	.61
232	40	2	-	-	1	6	9	14	.62
633	300	30	10	1	16	9	66	105	.63
427	265	26	7	-	1	10	44	64	.68
223	240	20	6	2	18	2	48	70	.69
324	185	18	3	6	3	-	30	40	.75
533	-	-	-	-	11	9	20	23	.88
424	140	14	3	2	9	5	33	33	.98
240	628	42	30	10	7	12	101	98	1.04
340	184	18	9	5	-	7	39	30	1.27
733	25	3	1	-	6	10	20	14	1.40
Ave.	222	16	6	2	6	7	37	81	.46

* refers to all row crops

Cost of Operating Grain Drill and Other Grain Seeding Equipment

Farm No.	Original Cost	Depreciation	Interest	Shelter	Repair and Upkeep	Servicing	Total Cost	Acres Used*	Cost per Acre
323	\$334	\$ -	\$ -	\$ 2	\$ -	\$ -	\$ 2	127	\$.01
232	40	2	1	-	-	-	3	32	.08
733	90	3	2	-	-	-	5	50	.09
235	30	3	-	1	-	-	4	28	.14
529	50	10	1	-	2	-	13	83	.16
240	75	5	-	1	-	-	6	38	.17
332	271	9	7	3	-	-	19	51	.36
226	310	22	9	2	-	-	33	72	.46
523	287	19	5	2	5	-	31	67	.47
432	175	17	2	1	-	-	20	37	.54
633	559	56	21	3	5	-	85	98	.87
340	185	10	5	5	-	-	20	22	.89
327	664	32	28	4	1	-	65	64	1.01
629	476	58	21	1	-	-	80	60	1.33
729	635	41	23	2	-	-	66	48	1.37
229	110	20	4	2	16	-	42	27	1.59
223	300	30	7	3	-	-	40	15	2.65
540	305	30	13	-	-	-	43	15	2.93
233	535	73	15	5	-	-	93	31	2.98
333	750	75	28	15	-	-	118	39	3.01
334	525	50	17	10	2	-	79	24	3.32
Ave.	319	27	10	3	1	-	41	49	.84

* refers to acres in small grains and peas

Cost of Operating Corn Cultivators

Farm No.	Original Cost	Depreciation	Interest	Shelter	Repair and Upkeep	Servicing	Total Cost	Acres Over*	Cost per Acre
334	\$ -	\$ -	\$ -	\$ -	\$14	\$ 5	\$ 19	253	\$.07
432	165	16	3	1	-	8	28	226	.12
440	-	-	-	-	3	12	15	115	.13
323	125	8	1	1	63	32	105	617	.17
243	200	20	3	1	1	16	41	236	.17
540	190	20	8	-	39	8	75	406	.18
729	200	10	5	1	-	14	30	152	.20
223	175	18	8	2	9	3	40	179	.22
327	353	33	9	2	5	-	49	211	.23
226	180	18	5	2	1	23	49	197	.25
229	122	15	1	3	4	8	31	122	.25
235	630	40	25	13	63	8	149	536	.28
633	386	39	12	2	-	15	68	236	.29
529	675	45	25	3	21	27	121	397	.30
333	224	22	7	4	21	9	63	181	.35
629	714	71	28	1	34	42	176	480	.37
533	-	-	-	-	6	16	22	56	.38
240	565	23	28	8	30	28	117	293	.40
424	253	25	11	3	-	10	49	77	.64
324	195	81	3	6	7	-	97	140	.70
340	175	18	3	5	19	14	59	81	.73
523	604	60	16	3	74	16	169	229	.74
232	175	18	8	-	4	13	43	57	.75
332	372	23	5	3	4	14	49	61	.80
733	171	14	2	-	7	18	41	40	1.05
Ave.	311	25	9	3	17	14	68	223	.31

* acres on which used multiplied by "times over"

Cost of Operating Fertilizer Equipment

Farm No.	Original Cost	Depreciation	Interest	Shelter	Repair and Upkeep	Total Cost
633*	\$ 90	\$ 9	\$ 3	\$1	\$ -	\$ 13
529	77	7	3	-	-	10
332	48	6	1	-	-	7
323	208	21	7	1	-	29
340*	21	4	-	1	-	5
523	93	19	-	1	-	20
344	171	16	3	3	-	22
327	195	19	5	1	-	25
729	150	10	4	-	-	14
235	205	18	7	4	-	29
243*	75	15	3	-	-	18
629	48	25	7	-	20	52
333*	145	15	6	3	-	24
324	170	17	4	6	-	27
240	447	30	15	7	-	52
424	185	19	8	2	-	29
427	489	49	18	-	26	93
Ave.	166	18	5	2	3	28

* attachment for cultivator

Cost of Operating Crop Sprayers

Farm No.	Original Cost	Depreciation	Interest	Shelter	Repair and Upkeep	Total Cost
633	\$ 25	\$ 5	\$ -	\$-	\$ -	\$ 5
729	33	3	1	-	-	4
529	102	10	3	1	-	14
327	200	10	9	1	-	20
523	135	27	2	1	-	30
233	95	10	4	1	-	15
334	175	34	1	3	-	38
533	95	10	4	5	-	19
232	178	18	4	-	-	22
432	235	30	6	2	-	38
333	188	20	4	4	-	28
323	460	46	13	2	46	107
235	400	40	9	8	29	86
Ave.	179	20	5	2	6	33

Cost of Operating Hay Mowers and Rakes

Farm No.	Original Cost	Depreciation	Interest	Shelter	Repair and Upkeep	Servicing	Total Cost	Acres Over*	Cost per Acre
633	\$495	\$41	\$17	\$ 2	\$26	\$28	\$114	217	\$.52
529	312	23	11	1	28	52	115	163	.71
324	405	40	9	14	3	-	66	92	.72
427	-	-	-	-	2	30	32	43	.75
233	175	12	5	2	6	28	53	63	.83
229	185	25	7	4	-	21	57	67	.85
344	585	49	18	9	54	9	139	145	.96
327	291	21	7	2	-	10	40	41	.99
424	400	30	13	5	18	12	78	71	1.10
334	270	23	6	5	34	18	86	74	1.16
533	239	23	9	12	14	10	68	58	1.17
432	344	24	10	3	34	9	80	67	1.19
323	370	33	5	2	34	79	153	126	1.22
629	405	40	7	1	10	25	83	63	1.31
232	364	28	13	-	37	28	106	79	1.34
333	320	30	14	6	11	10	71	52	1.37
235	690	60	32	14	41	14	161	114	1.42
729	645	62	24	2	7	12	107	75	1.42
523	658	66	21	4	21	45	157	98	1.60
240	566	43	22	9	7	41	122	75	1.61
540	250	40	9	-	13	6	68	78	1.67
226	363	26	3	4	10	41	84	49	1.73
223	575	58	24	6	5	11	104	60	1.74
733	214	43	6	1	13	49	112	52	2.17
332	519	41	14	5	4	60	124	50	2.49
340	540	45	22	15	19	47	148	51	2.91
440	703	70	30	18	7	18	143	31	4.60
Ave.	418	37	13	5	17	27	99	80	1.24

* The sum of "acres over" by mowers and "acres over" by rakes divided by 2.

Cost of Operating Grain Binders

Farm No.	Original Cost	Depreciation	Interest	Shelter	Repair and Upkeep	Fuel and Oil	Servicing	Total Cost	Acres Used		Cost per Acre*
									Own Farm	Other Farms	
333	\$ 40	\$ -	\$ -	\$ 1	\$18	\$ -	\$ -	\$ 19	39	-	\$.49
633	375	47	1	2	41	-	-	91	91	-	1.00
733	175	18	7	-	-	-	-	25	24	-	1.06
533	150	15	6	7	-	-	-	28	20	-	1.39
Ave.	185	20	3	3	15	-	-	41	43	-	.94

Cost of Operating Stationary Threshers

Farm No.	Original Cost	Depreciation	Interest	Shelter	Repair and Upkeep	Fuel and Oil	Servicing	Total Cost	Acres Used		Cost per Acre*
									Own Farm	Other Farms	
333	\$125	\$ 13	\$ 1	\$ 2	\$ -	\$ -	\$ 15	\$ 31	39	20	\$.53
332	82	10	3	1	-	-	25	39	43	16	.67
633	880	88	20	4	17	-	15	144	91	-	1.58
733	375	75	17	1	-	-	58	151	26	20	3.27
729	1400	70	24	5	-	-	9	108	-	25	4.34
Ave.	572	51	13	3	3	-	25	95	40	16	2.38

Cost of Operating Field Choppers

Farm No.	Original Cost	Depreciation	Interest	Shelter	Repair and Upkeep	Fuel and Oil	Servicing	Total Cost	Acres Used		Cost per Acre*
									Own Farm	Other Farms	
540	\$1871	\$240	\$79	\$ -	\$28	\$ -	\$ 12	\$359	148	50	\$1.81
233	670	55	31	7	10	-	21	124	63	-	1.97
327	1855	121	81	11	10	-	-	223	110	-	2.04
340	1345	115	40	38	-	-	19	212	62	18	2.64
533	3000	300	62	148	75	60	36	681	58	113	3.99
523	1171	157	38	7	294	-	83	579	112	30	4.07
344	264	26	8	4	-	-	-	38	7	-	5.26
226	1193	240	42	10	2	-	27	321	54	-	5.47
229	362	70	9	8	17	-	20	124	19	-	6.48
240	2695	265	89	42	12	24	53	485	69	-	7.04
427	475	75	22	-	40	-	19	156	19	-	8.06
440	1945	194	64	51	77	4	47	437	52	-	8.37
432	3411	427	117	22	36	-	17	619	51	16	9.20
223	456	90	16	5	3	-	-	114	12	-	9.24
729	1596	160	60	5	-	-	-	225	11	10	10.77
629	2300	230	51	5	90	6	18	400	20	12	12.51
Ave.	1538	173	50	23	43	4	24	317	54	16	4.52

* Total cost divided by the sum of acres used on own farm and on other farms.

Cost of Operating Swathers

Farm No.	Original Cost	Depreciation	Interest	Shelter	Repair and Upkeep	Fuel and Oil	Servicing	Total Cost	Acres Used		Cost per Acre*
									Own Farm	Other Farms	
323	\$358	\$ -	\$ -	\$ 2	\$ 7	\$ -	\$ -	\$ 9	127	-	\$.07
243	25	5	1	-	-	-	-	6	37	-	.15
432	28	6	-	-	-	-	-	6	37	-	.17
232	58	4	1	-	11	-	-	16	32	-	.49
729	350	35	17	1	-	-	-	53	48	50	.54
529	250	25	9	1	14	-	-	49	83	-	.59
523	160	32	6	1	5	-	-	44	67	-	.66
427	125	18	4	-	-	-	-	22	30	-	.73
334	-	-	-	-	20	-	-	20	24	-	.84
340	540	54	23	15	-	-	-	92	22	80	.90
327	665	36	30	4	-	-	-	70	64	-	1.08
233	175	22	8	2	10	-	-	42	31	-	1.33
629	600	60	18	1	20	-	-	99	60	-	1.65
344	1460	200	58	22	-	18	-	298	63	100	1.83
Ave.	369	36	12	4	6	1	-	59	52	16	.85

Cost of Operating Combines

Farm No.	Original Cost	Depreciation	Interest	Shelter	Repair and Upkeep	Fuel and Oil	Servicing	Total Cost	Acres Used		Cost per Acre*
									Own Farm	Other Farms	
327	\$1533	\$100	\$69	\$ 9	\$ 10	\$ -	\$ 15	\$203	123	-	\$1.64
243	350	30	8	1	17	-	45	101	46	-	2.21
233	1440	92	16	15	-	11	12	146	34	22	2.59
729	1350	135	64	5	61	25	-	290	42	60	2.84
226	1100	110	14	9	30	22	45	230	72	8	2.86
232	1714	160	44	-	29	14	27	274	32	39	3.83
529	2000	200	70	8	20	-	60	358	83	-	4.31
334	1300	130	29	24	13	18	34	248	48	-	5.21
523	1818	182	59	10	9	14	82	356	47	-	7.62
Ave.	1400	126	42	9	21	12	35	245	59	14	3.36
629	1707	20	2	3	130	19	74	248	65	100	1.51
323	3098	310	116	16	75	51	133	701	186	-	3.78
432	1520	180	63	10	99	25	4	381	37	46	4.59
427	1000	140	25	-	-	7	28	200	30	-	6.74
Ave.	1831	163	51	7	76	25	60	382	79	36	3.30

* Total cost divided by the sum of acres used on own farm and on other farms.

Cost of Operating Corn Pickers

Farm No.	Original Cost	Depreciation	Interest	Shelter	Repair and Upkeep	Servicing	Total Cost	Acres Used		Cost per Acre**
								Own Farm	Other Farms	
<u>One-row pickers</u>										
324	\$338	\$ 14	\$ 3	\$ 7	\$ -	\$ 4	\$ 28	32	-	\$.88
344	625	80	24	10	9	-	123	86	12	1.25
226	810	81	26	6	14	21	148	67	-	2.22
633	775	155	27	4	43	6	235	105	-	2.23
424	530	53	25	7	-	9	94	23	-	4.14
533	385	46	15	19	-	20	100	23	-	4.32
440	786	79	25	21	-	8	133	27	-	4.89
733	350	35	15	1	-	15	66	13	-	4.98
729	882	84	19	3	7	4	117	23	-	5.13
Ave.	609	70	20	9	8	9	116	45	1	2.54

<u>Two-row pickers</u>										
235	350	50	14	7	26	21	118	186	-	.60
323	820	-	-	4	119	48	171	181	-	.95
334	625	62	23	11	3	-	99	91	-	1.09
629	650	-	-	1	134	40	175	160	-	1.10
540	500	100	22	-	6	8	136	104	-	1.31
529	1400	140	46	6	16	33	241	115	-	2.09
243	750	150	34	3	21	16	224	100	-	2.23
327	1235	82	47	7	18	-	154	65	-	2.37
233	1803	85	73	18	6	18	200	44	24	2.92
432	976	163	9	6	-	4	182	61	-	2.97
523	1185	118	38	7	45	32	240	80	-	3.01
240	1304	163	61	20	5	32	281	91	-	3.10
333	1175	75	57	24	-	-	156	42	-	3.72
223	1590	160	60	16	2	-	238	58	-	4.13
Ave.	1026	96	35	9	29	18	187	98	2	1.86

Cost of Operating Balers

Farm No.	Original Cost	Depreciation	Interest	Shelter	Repair and Upkeep	Servicing	Total Cost*	Acres Used		Cost per Acre**
								Own Farm	Other Farms	
729	\$2125	\$212	\$101	\$ 7	\$ 2	\$22	\$344	119	180	\$1.15
344	2320	232	64	35	42	23	396	169	24	2.05
529	1380	138	36	6	51	57	288	136	3	2.07
Ave.	1942	194	67	16	32	34	343	141	69	1.63

* Does not include cost of twine or wire.

** Total cost divided by the sum of acres used on own farm and on other farms.

Cost of Operating Portable Elevators

Farm No.	Original Cost	Depreciation	Interest	Shelter	Repair and Upkeep	Servicing	Total Cost	Acres Used*		Cost per Acre
								Own Farm	Other Farms	
729	\$ 30	\$ 1	\$ 1	\$ -	\$ 2	\$ -	\$ 4	71	-	\$.06
323	405	27	1	2	12	-	42	222	-	.19
529	495	35	17	2	-	-	54	198	-	.27
226	225	22	3	2	13	-	40	139	-	.29
235	570	35	18	12	14	-	79	214	-	.37
327	467	30	21	3	-	-	54	129	-	.42
240	430	35	12	7	-	-	54	128	-	.42
233	363	29	14	4	-	-	47	76	24.0	.47
629	633	71	27	1	10	-	109	219	-	.50
633	615	62	23	3	13	-	101	203	-	.50
344	598	56	16	9	-	-	81	149	-	.54
223	325	30	4	3	-	5	42	73	-	.57
232	175	18	7	-	2	-	27	47	-	.57
540	405	48	17	-	-	6	71	119	-	.60
243	340	40	16	1	28	-	85	138	-	.62
229	277	30	4	6	-	-	40	59	-	.67
427	542	54	15	-	5	-	74	94	-	.79
334	840	42	33	15	4	-	94	115	-	.82
523	997	100	32	6	9	-	147	147	-	1.00
340	270	18	9	8	-	28	63	37	-	1.68
424	353	45	17	5	17	20	104	40	-	2.61
Ave.	445	39	15	4	6	3	67	125	1	.53

* refers to total acreage of small grains and corn for grain

Cost of Operating Manure Spreaders						Cost of Operating Manure Loaders						
Original Cost	Depreciation	Interest	Shelter	Repair and Upkeep	Total Cost	Farm No.	Original Cost	Depreciation	Interest	Shelter	Repair and Upkeep	Total Cost
\$225	\$22	\$ 4	\$ 8	\$ 9	\$43	324	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
330	50	11	7	22	90	229	108	15	1	2	2	20
342	34	8	3	6	51	223	275	28	5	3	1	37
522	36	25	-	25	86	540	185	37	8	-	38	83
435	25	10	3	-	38	327	175	17	7	1	-	25
125	12	2	3	-	17	440	275	28	10	7	1	46
540	27	8	8	17	60	240	240	24	5	4	-	33
440	22	17	6	4	49	424	365	36	8	5	-	49
485	48	18	2	21	89	633	-	-	-	-	-	-
452	45	12	7	15	79	344	-	-	-	-	-	-
345	23	12	10	4	49	340	191	20	4	5	-	29
185	10	5	2	15	32	239	200	34	6	2	17	59
300	38	5	1	6	50	729	360	20	12	1	-	33
150	15	6	8	10	39	533	230	15	10	12	-	37
258	50	12	1	2	65	733	-	-	-	-	-	-
165	11	-	2	13	26	332	-	-	-	-	-	-
125	-	-	1	8	9	226	-	-	-	-	-	-
526	52	22	-	-	74	232	200	20	6	-	-	26
265	20	5	5	18	48	333	-	-	-	-	-	-
340	34	11	-	-	45	427	-	-	-	-	-	-
415	42	13	2	38	95	523	-	-	-	-	-	-
447	30	16	1	36	83	629	381	38	18	1	10	67
373	37	10	2	8	57	529	280	28	7	1	-	36
400	20	16	8	15	59	235	402	20	18	8	17	63
455	46	10	3	14	73	323	-	-	-	-	7	7
260	26	5	1	-	32	243	125	25	4	1	3	33
400	40	12	7	13	72	334	192	20	7	3	8	38
624	69	18	4	1	92	432	316	63	8	2	5	78
355	32	10	4	11	57	Ave.	250	26	7	3	6	42

Summary of Machinery Costs and Custom Work Hired

Farm No.	Tillage Mach.	Fert. Equip.	Grain Seed- ing Equip.	Corn Plan- ter	Corn Cult.	Crop Spray- er	Mower and Rake	Field Chop- per & Blower	Baler	Long Hay Equip.	Grain Binder
324	\$ 60	\$ 27	\$ -	\$ 30	\$ 98	\$ -	\$ 66	\$ -	\$ -	\$ -	\$ -
332	143	7	19	16	49	-	124	-	-	38	-
235	268	29	4	96	149	86	161	-	-	13	-
633	308	13	85	66	68	5	114	-	-	41	91
327	220	25	65	32	49	20	40	223	-	-	-
323	391	29	2	61	105	107	153	-	-	84	-
243	108	18	-	26	41	-	52	-	-	8	-
344	400	22	-	36	-	-	139	38	347	-	-
334	203	-	79	11	19	38	86	-	-	-	-
540	242	-	43	54	75	-	68	268	-	-	-
333	100	24	118	4	63	28	71	-	-	6	19
733	132	-	5	20	42	-	112	-	-	-	25
229	141	-	43	4	31	-	57	124	-	28	-
226	150	-	33	23	49	-	84	294	-	27	-
529	189	10	13	52	121	14	115	-	281	31	-
629	725	52	80	-	176	-	83	250	-	-	-
729	179	14	66	19	30	5	107	117	137	12	12
427	217	93	-	44	-	-	32	156	-	-	-
233	199	-	93	24	-	15	53	124	-	-	-
232	112	-	3	9	43	22	106	-	-	6	13
424	137	29	-	32	49	-	78	-	-	71	-
340	80	5	20	39	59	-	148	165	-	16	-
533	136	-	-	20	22	19	68	231	-	-	28
223	124	-	40	48	40	-	104	114	-	-	-
240	216	52	6	101	117	-	122	486	-	-	-
440	85	-	-	9	15	-	143	437	-	23	-
523	522	20	31	70	169	30	157	457	-	-	-
432	305	-	20	54	28	38	80	472	-	-	-
Ave.	218	17	31	36	61	15	97	141	27	15	7

Summary of Machinery Costs and Custom Work Hired (Cont'd.)

Thresh- er	Swath- er	Com- bine	Corn Picker	Port- able Elev.	Wagons etc.	Manure Spread- er and Loader	Total Cost*	Crop Acres	Cost per Acre	Custom Work	
										Total	Per Acre
\$ -	\$ -	\$ -	\$ -	\$ -	\$ 66	\$ 43	\$ 390	111.7	\$3.49	\$843	\$7.55
29	-	-	-	-	30	26	481	110.5	4.35	479	4.34
-	-	-	118	79	149	122	1274	289.7	4.40	642	2.22
144	-	-	234	101	94	89	1454	312.9	4.65	48	.15
-	70	203	154	54	92	63	1310	257.3	5.09	-	-
-	8	701	171	42	217	80	2151	400.3	5.37	466	1.16
-	6	101	224	86	99	65	834	146.0	5.71	-	-
-	115	-	108	80	129	79	1493	253.5	5.89	525	2.07
-	20	248	99	94	145	111	1153	185.1	6.23	181	.98
-	-	-	136	71	348	169	1474	231.0	6.38	216	.94
21	-	-	156	-	63	48	721	110.0	6.56	-	-
85	-	-	66	-	57	64	608	87.2	6.97	263	3.02
-	-	-	28	40	56	110	662	91.8	7.21	142	1.55
-	-	207	148	40	208	9	1272	173.4	7.33	-	-
-	49	358	241	54	119	93	1740	288.5	7.61	113	.50
-	99	98	175	109	146	150	2143	274.4	7.81	70	.26
-	26	120	117	5	57	82	1105	133.9	8.25	-	-
-	22	200	-	74	67	45	949	113.4	8.37	-	-
-	42	89	130	36	95	91	991	112.3	8.82	-	-
-	16	124	-	37	36	101	628	67.4	9.32	374	5.55
-	-	-	94	104	118	98	810	86.8	9.33	544	6.26
-	20	-	-	63	24	77	716	75.7	9.45	81	1.07
-	-	-	100	-	179	76	879	86.1	10.21	38	.44
-	-	-	238	41	63	88	900	84.9	10.60	371	4.37
112	-	-	281	54	257	93	1897	166.2	11.42	175	1.05
-	-	-	133	-	55	63	963	83.6	11.52	44	.53
-	44	356	240	147	363	95	2701	219.9	12.28	357	1.62
-	6	169	182	-	430	170	1954	151.3	12.92	224	1.48
14	19	106	128	50	134	86	1202	165.9	7.25	221	1.33

* This cost does not include that share of the machinery costs involved in doing custom work for others.

Source and Use of Labor by Type of Farm

Farm No.	Source of Labor				Total Hours	Crops							
	Oper-ator	Fam-ily	Hired	Exch. grat.		Grain	Corn	Soy-beans	Other Crops	Haul man.	Fall work	Total Crops	
<u>Emphasis on Dairy Cattle</u>													
324	2278	-	2521	6	4805	38	165	-	128	-	59	4	394
229	3382	1414	32	124	4952	108	326	-	250	23	194	98	999
223	3169	57	72	153	3451	49	375	-	124	16	106	88	758
540	3537	114	2360	259	6270	87	988	89	266	151	260	136	1977
327	596	3911	17	-	4524	181	252	147	147	34	94	225	1080
440	1633	2550	-	12	4195	79	382	-	172	100	88	42	863
240	3995	1966	521	-	6482	195	675	-	298	78	242	128	1616
424	3822	235	665	53	3775	81	290	-	156	17	82	48	674
633	3570	972	3605	221	8368	480	487	-	414	36	298	65	1780
344	3267	3091	1316	71	7745	210	550	-	418	7	161	48	1394
340	3683	1522	16	244	5465	137	268	-	147	15	112	26	705
233	3746	907	175	218	5046	296	330	-	215	26	71	85	1023
729	3602	34	420	135	4191	182	299	94	269	42	143	31	1060
533	3467	960	1883	525	6835	315	220	-	283	1	182	49	1050
733	4408	1470	77	437	6392	407	149	-	303	50	116	105	1130
332	5700	-	37	163	5900	364	267	-	136	99	172	188	1226
226	3830	108	3651	30	7619	266	584	-	226	46	69	133	1324
232	2858	1824	298	-	4980	216	106	-	214	176	22	78	812
333	3422	1009	545	123	5099	327	301	-	191	39	140	42	1040
Ave.	3314	1165	958	146	5583	212	369	17	229	50	138	85	1100
<u>Emphasis on Feeder Cattle or Hogs</u>													
427	3197	4	2	281	3484	164	322	-	176	75	172	124	1033
523	3284	675	2822	71	6852	208	752	-	299	104	121	56	1540
629	3520	144	1631	148	5443	182	1028	-	184	4	217	143	1758
529	3205	1541	2359	8	7113	303	601	-	534	38	247	155	1878
235	2943	123	1666	102	4834	78	511	53	147	69	145	279	1282
323	2981	1745	2777	92	7595	615	900	198	432	163	107	297	2712
243	1935	374	6	106	2421	97	506	32	-	4	14	211	864
334	2545	-	848	111	3504	104	355	93	207	124	118	190	1191
432	1889	616	293	20	2818	126	453	-	196	10	68	205	1058
Ave.	2833	580	1378	104	4895	208	603	42	242	66	134	184	1479

Source and Use of Labor by Type of Farm (Cont'd.)

Dairy cattle	Feeder cattle	Hogs	Livestock			Total lvst.	Miscellaneous				
			Chick-ens	Other	Horses		Farm-stead	New bldgs.	Bldg. repair	Fences	Mach. & equip.
<u>Emphasis on Dairy Cattle</u>											
3202	-	-	814	-	-	4016	56	-	58	16	19
1497	364	775	315	-	-	2951	126	-	22	101	146
1256	-	391	-	-	-	1647	98	270	82	59	74
1915	79	740	299	27	-	3060	215	70	160	285	104
1620	-	267	488	109	-	2484	101	366	107	121	47
1129	-	610	41	338	-	2118	120	142	73	66	183
2594	114	513	160	-	-	3381	88	163	158	108	493
1927	-	134	93	-	-	2154	63	160	17	13	187
3646	-	682	782	-	119	5229	117	15	221	116	198
4178	-	616	-	541	-	5335	104	51	275	131	91
3006	-	60	393	-	-	3459	31	178	90	75	231
1902	-	442	316	-	-	2660	145	268	141	43	255
2463	-	-	-	-	69	2532	17	-	92	16	116
2026	-	-	665	42	15	2748	135	257	94	54	307
2093	21	123	526	68	94	2925	87	191	174	109	325
2261	-	-	554	-	38	2853	136	-	271	107	212
2386	-	-	837	17	-	3240	134	159	101	45	542
2060	-	-	978	-	-	3038	86	22	88	48	125
1778	-	422	564	-	121	2885	40	-	163	87	105
2260	30	304	412	60	24	3090	100	122	126	84	198
<u>Emphasis on Feeder Cattle or Hogs</u>											
-	386	695	245	-	-	1326	116	114	28	103	233
1384	929	-	717	785	-	3815	153	12	118	145	530
15	1023	247	540	39	-	1864	246	-	232	131	400
446	197	1094	509	702	-	2948	282	7	469	74	596
478	183	756	204	198	-	1819	168	121	254	142	230
-	864	957	261	440	39	2561	380	-	120	49	675
-	-	148	162	-	-	310	194	243	107	22	157
-	350	491	-	-	-	841	102	-	74	68	185
-	655	123	-	-	-	778	81	517	106	8	106
258	510	501	293	241	4	1807	191	112	168	82	346

Source and Use of Labor by Type of Farm (Cont'd.)

Farm No.	Miscellaneous (Cont'd.)										Total
	Trac- tor repair	Truck, auto repair	Wood for fuel	Garden work	Farm busi- ness	Farm meet- ings	Work for others		Public serv. work	Misc.	
							Exch.	Paid			
<u>Emphasis on Dairy Cattle</u>											
324	12	-	-	-	10	2	6	121	95	-	395
229	9	5	-	14	131	64	132	-	236	16	1002
223	15	14	21	12	107	35	94	2	159	4	1046
540	31	-	-	1	199	45	108	-	6	9	1233
327	8	36	-	-	88	63	-	-	6	17	960
440	24	78	14	63	96	218	79	15	37	6	1214
240	82	1	62	60	181	21	-	-	4	64	1485
424	22	7	9	75	244	40	10	84	8	8	947
633	20	9	25	33	156	16	402	-	6	25	1359
344	7	2	26	2	28	55	122	41	49	32	1016
340	7	18	-	4	20	33	406	7	188	13	1301
233	50	18	-	37	148	66	68	4	98	22	1363
729	46	2	21	35	66	11	90	42	-	45	599
533	41	10	44	182	116	71	519	1079	50	78	3037
733	18	8	5	25	178	187	439	23	550	18	2337
332	27	20	-	74	163	160	164	169	260	58	1821
226	49	70	-	5	703	178	7	178	580	304	3055
232	11	6	188	6	195	35	6	120	121	73	1130
333	10	-	312	10	194	23	54	-	155	21	1174
Ave.	26	16	38	33	159	70	142	99	137	43	1393
<u>Emphasis on Feeder Cattle or Hogs</u>											
427	25	29	18	7	115	60	224	-	53	-	1125
523	18	3	4	12	186	123	97	67	4	25	1497
629	77	1	8	5	140	59	430	62	5	25	1821
529	100	9	16	94	360	58	11	19	123	69	2287
235	37	34	38	-	416	124	46	50	33	40	1733
323	104	18	50	58	444	102	84	12	102	124	2322
243	15	18	48	13	147	172	21	-	4	86	1247
334	35	19	-	2	108	83	136	-	656	4	1472
432	2	2	-	6	79	8	-	45	-	22	982
Ave.	46	15	20	22	222	88	116	28	109	44	1609

Use of Tractor Hours by Enterprise

Farm No.	Crops							Livestock							Total Hours
	Grain	Corn	Soy-beans	Hay	Other Crops	Haul Manure	Fall Work	Total Cattle	Dairy Feeder Cattle	Hogs	Chick-ens	Other	Total	Misc.	
324	28	160	-	79	-	59	4	330	4	-	-	-	4	4	338
229	81	264	-	136	12	149	93	735	22	22	32	-	81	21	837
223	30	317	-	80	6	80	87	600	10	-	16	-	26	73	699
540	78	945	88	266	119	243	135	1874	76	12	65	-	153	150	2177
327	173	198	140	147	19	78	225	980	30	-	-	-	30	48	1058
440	60	312	-	155	41	63	22	653	15	-	10	10	35	25	713
240	126	511	-	230	30	211	116	1224	31	-	16	-	47	43	1314
424	59	186	-	82	12	69	48	456	37	-	25	-	62	15	533
633	194	430	-	234	30	25	65	978	63	-	27	1	91	45	1114
344	130	502	-	198	7	144	48	1029	46	-	16	14	76	28	1133
340	97	232	-	115	15	103	26	588	91	-	-	-	93	53	734
233	169	297	-	187	18	70	79	820	46	-	26	-	74	41	935
729	148	251	70	154	10	133	31	797	150	-	-	4	154	23	974
533	130	184	-	228	-	50	49	641	9	-	-	-	11	175	827
733	145	125	-	210	8	32	99	619	10	-	-	-	13	161	793
332	190	217	-	74	64	64	184	793	9	-	-	-	17	63	873
226	211	448	-	134	28	68	122	1011	49	-	-	-	62	95	1168
232	85	73	-	99	100	20	77	454	25	-	-	-	33	62	549
333	117	202	-	122	13	4	40	498	47	-	31	-	90	72	660
Ave.	118	308	16	154	28	88	82	794	40	2	14	3	61	63	918
<u>Emphasis on Feeder Cattle or Hogs</u>															
427	123	275	-	140	46	180	124	888	-	102	142	4	248	106	1242
523	148	633	-	240	66	107	56	1250	18	299	-	10	528	59	1837
629	144	989	-	126	-	188	143	1590	-	170	4	6	183	150	1923
529	209	524	-	289	5	118	140	1285	7	-	37	5	96	128	1509
235	48	486	51	95	36	120	280	1116	56	85	111	1	254	145	1515
323	418	786	172	280	40	88	286	2070	-	267	117	-	429	198	2697
243	93	477	32	-	3	13	210	828	-	-	19	-	19	191	1038
334	73	316	69	142	30	102	189	921	-	46	46	-	92	65	1078
432	90	356	-	160	-	54	204	864	-	36	5	-	41	5	910
Ave.	149	538	36	164	25	108	181	1201	9	112	54	3	210	116	1527

Average Rates of Performance for Field Work

Machine		No. of Farms	Ave. per Acre		Man Hours per Acre	
Kind	Size		Man Hours	Power Hours	High	Low
T. Disc	7'-10'	16	.32	.32	.60	.20
S. Disc	10'-18'	12	.18	.18	.26	.11
Plow	2 bottom	14	1.17	1.16	2.10	.90
Plow	3 bottom	8	1.01	1.00	1.11	.86
Spring Tooth	7'-12'	19	.27	.27	.54	.16
Spike Tooth	16'-21'	28	.13	.13	.44	.06
Grain Drill	7'-8'	9	.44	.42	.67	.31
Grain Drill	9'-11'	14	.38	.35	.60	.31
Corn Planter:						
Drilling	2 row	14	.47	.46	.93	.35
Drilling	4 row	5	.48	.48	.76	.30
Corn Cultivator	2 row	20	.46	.46	.14	.87
Corn Cultivator	4 row	2	.28	.27	.38	.21
Corn Picker	1 row	8	2.52	1.78	5.28	1.57
Corn Picker	2 row	14	1.89	1.43	2.81	.91
Fill Silo with Field Chopper (corn)		11	5.43	4.02	9.18	3.30
Grain Binder	7'-10'	4	1.28	.66	1.95	.79
Swather	7'-12'	17	.48	.34	.99	.19
Combine and Haul	5'-6'	8	1.24	.89	2.22	.50
Combine and Haul	12'	3	1.50	1.11	1.91	.78
Shock Grain		4	1.15	-	2.01	.77
Threshing		5	3.25	1.01	5.72	1.74
Mower	5'-7'	25	.47	.45	.69	.30
Side Delivery Rake		26	.34	.34	.56	.21
Bale Hay		4	2.08	.90	2.36	1.76
Chop Hay		11	2.47	1.96	3.47	.61
Chop Silage (Hay)		8	2.80	2.17	8.97	1.24
Haul long, loose hay		11	2.62	1.21	3.77	1.79

Seasonal Percentage Distribution of Labor - Average per Farm and Enterprise

	Source of Labor					Livestock					Crops	
	Total Oper-	Fam-	Exch.	Dairy	Feeder	Chick-	Other ^{1/}	Small	Grain	Corn		
	Labor ator	ily	Hired	Rec'd	Cattle	Cattle						
Jan.	6.8	7.5	4.9	6.9	2.0	10.2	13.7	8.6	7.6	-	.1	-
Feb.	6.5	7.4	4.7	6.2	.8	9.1	10.8	12.3	7.5	-	-	-
Mar.	7.7	8.1	7.3	7.5	2.0	9.9	12.5	15.3	9.7	-	2.4	.6
Apr.	8.3	8.3	8.9	8.0	3.6	9.0	9.7	10.4	9.8	-	26.3	3.0
May	9.2	9.1	9.5	10.1	2.1	8.2	7.0	6.7	9.3	-	3.9	27.8
June	10.1	9.3	10.1	11.8	14.7	6.9	5.5	6.0	8.0	-	.9	20.8
July	9.3	8.6	9.3	11.0	10.2	6.9	6.9	5.7	9.2	-	17.2	6.1
Aug.	9.5	8.4	10.6	10.1	26.3	7.0	7.2	7.4	8.8	-	47.9	.1
Sept.	9.1	8.8	9.6	8.1	21.9	6.8	5.8	7.3	8.3	-	.9	9.7
Oct.	9.7	9.6	10.3	9.1	13.1	7.4	6.3	6.7	7.5	-	.4	28.8
Nov.	7.3	7.7	7.9	6.5	2.0	8.4	6.3	6.5	7.1	-	-	3.1
Dec.	6.5	7.2	6.9	4.7	1.3	10.2	8.3	7.1	7.2	-	-	-
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-	100.0	100.0
Hours ^{2/}	5,363	3,160	977	1,093	133	1,616	184	367	374	136	211	445
No. of Farms	28	28	28	28	28	20	10	20	21	7	28	28

	Crops (cont'd)		Other Crop Work	Fall Work	Manure Hauling	Upkeep Farmstead	Repair of		Wood, Gard-en	Farm Busi-ness ^{3/}	Work for Others	Misc-ellane-ous
	Soy-beans	Grass Leg.					Build-ings	Mach-inery				
Jan.	.1	-	1.4	-	10.1	2.8	3.1	3.5	12.5	11.7	5.8	7.8
Feb.	.3	-	2.2	-	9.1	6.4	2.7	3.3	5.3	9.2	5.2	3.6
Mar.	-	.3	1.2	-	14.0	7.0	3.4	4.8	6.0	11.9	6.8	5.7
Apr.	1.4	.2	11.1	-	11.0	14.1	5.1	7.0	6.8	7.6	5.2	7.8
May	28.7	.3	17.3	-	12.6	8.8	8.5	8.7	11.9	6.5	4.3	4.9
June	27.8	37.2	18.9	-	6.1	10.8	6.9	15.0	14.8	7.4	12.4	3.1
July	11.2	28.5	24.0	-	5.9	11.8	10.3	14.5	11.5	6.5	9.7	4.1
Aug.	4.4	19.8	5.7	2.5	8.2	9.3	12.7	9.4	3.4	5.0	14.0	10.9
Sept.	9.1	13.7	13.7	19.5	7.0	12.9	16.5	11.1	10.0	9.0	12.4	22.0
Oct.	17.0	-	1.0	27.2	2.7	5.5	16.7	11.4	7.2	5.4	11.0	14.2
Nov.	-	-	3.2	49.9	6.0	6.3	7.9	7.3	3.8	7.5	7.2	8.1
Dec.	-	-	.3	.9	7.3	4.3	6.2	4.0	6.8	12.3	6.0	7.8
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Hours ^{2/}	25	233	55	117	137	129	342	293	62	255	339	43
No. of Farms	7	27	28	28	28	28	28	28	25	28	28	28

^{1/} Five farms had sheep and one farm had turkeys. A percentage distribution would not be meaningful.

^{2/} Total hours on all farms divided by total number of farms (28).

^{3/} Includes meetings, general business, auction, etc.

