



AgEcon SEARCH

RESEARCH IN AGRICULTURAL & APPLIED ECONOMICS

The World's Largest Open Access Agricultural & Applied Economics Digital Library

This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.

Help ensure our sustainability.

Give to AgEcon Search

AgEcon Search

<http://ageconsearch.umn.edu>

aesearch@umn.edu

*Papers downloaded from **AgEcon Search** may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.*

No endorsement of AgEcon Search or its fundraising activities by the author(s) of the following work or their employer(s) is intended or implied.

UNIVERSITY OF MINNESOTA
INSTITUTE OF AGRICULTURE

and

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF AGRICULTURAL ECONOMICS

Cooperating

FARM LABOR AND FARM COSTS, 1952

by

Niels Rorholm, S. A. Engene and G. A. Pond

Report No. 208
Department of Agricultural Economics
University Farm
St. Paul 1, Minnesota
May, 1953

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 and 29 farmers in 1952. 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 1952 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 1952

Weather is an important factor affecting the physical inputs of labor and machinery required in agricultural production. It also affects the yields of various enterprises. The 1952 mean annual precipitation ranged from 0 to 8.5 inches below normal for the area. The mean temperature as well as the length of the growing season were somewhat above normal, resulting in only a negligible amount of soft corn.

Methods of Computing and Presenting the Data

GENERAL ITEMS:

Man labor was charged at an 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 farms 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.

CROP SUMMARIES:

Seed was charged at cost. In the cases where seed was home grown the average 1952 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 1952.

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

Prices used in determining value produced represent an average of 1952 prices received in the area.

LIVESTOCK SUMMARIES:

Feed costs include all feeds bought, home grown feeds at average 1952 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 floorspace occupied by tractors and according to initial cost of crop machinery.

Summary of Farm Earnings

Items	Average of		Items	Average of	
	20 farms ^{1/}	8 farms ^{2/}		20 farms ^{1/}	8 farms ^{2/}
Farm Receipts:			Farm Expenses:		
Dairy cows	\$1,000	\$ 138	Dairy cattle bought	\$ 164	\$ 54
Dairy products	5,288	99	Other dairy cattle bought	268	29
Other dairy cattle	917	24	Beef cattle bought	112	9,825
Beef cattle	712	13,033	Hogs bought	96	123
Hogs	3,500	9,468	Sheep bought	6	586
Sheep and wool	62	929	Poultry bought	137	240
Poultry	459	519	Horses bought	19	-
Eggs	1,058	710	Miscellaneous livestock exp.	340	433
Horses	4	11	Miscellaneous crop expense	1,043	1,610
Corn	612	1,671	Feed bought	2,370	5,720
Small grain	290	886	Custom work hired	569	624
Other crops	1,257	1,000	Mech. power (new)	368	211
Mach. and equip. sold	320	157	Mech. power (upkeep)	248	423
Agricultural Adj. payments	75	67	Mech. power (gas, oil, etc.)	877	1,116
Income from work off farm	281	13	Crop and general mach. (new)	708	605
Miscellaneous	336	189	Crop and general mach. (upkeep)	192	420
Total farm sales	16,171	28,914	Livestock equipment (new)	379	59
Increase in farm capital	669	6,375	Livestock equipment (upkeep)	109	130
Family living from farm	877	778	Buildings and fences (new)	1,159	1,860
Total receipts	17,717	36,067	Buildings and fences (upkeep)	324	522
Total expenses	<u>11,252</u>	<u>26,316</u>	Hired labor	865	785
Income to family & capital	<u>6,465</u>	<u>9,751</u>	Board for hired labor	145	40
Interest on farm capital	2,048	3,425	Taxes	520	570
Unpaid family labor	<u>510</u>	<u>543</u>	Overhead and insurance	<u>234</u>	<u>331</u>
Operator's labor earnings	3,907	5,783	Total expenses	11,252	26,316

Summary of Farm Inventories

Size of farm (acres)	Ave. of 20 farms ^{1/}		Ave. of 8 farms ^{2/}	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
	179		287	
Dairy cows	\$2,667	\$2,949	\$ 230	\$ 247
Other dairy cattle	2,133	2,011	95	56
Beef cattle	619	309	7,928	10,216
Hogs	1,186	1,052	3,283	2,751
Sheep	90	80	668	651
Poultry	239	178	218	248
Horses	28	37	57	30
Crops, seed, feed	4,230	4,830	7,129	11,222
Mechanical power	2,654	2,521	4,145	3,740
Crop and general machinery	3,460	3,515	3,984	3,953
Livestock equipment and supplies	653	897	629	597
Miscellaneous	34	30	-	-
Buildings, fences, etc.	11,752	12,004	9,228	10,257
Land	10,882	10,883	27,729	27,730
Total farm capital	40,627	41,296	65,323	71,698

^{1/} 20 farms where the major livestock enterprise is dairy cattle.

^{2/} 8 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	\$1.80	\$2.03	\$2.60	\$3.22	\$2.40	\$3.99	\$ -	\$16.04	\$2.91	\$2.08	\$1.28	\$1.75
202	1.10	1.06	2.85	.52	1.55	1.44	-	8.52	1.22	1.49	-	3.82
508	.95	.98	3.36	2.82	.73	5.77	-	14.61	1.10	.72	.26	6.46
105	1.59	1.51	2.06	.89	.52	1.76	-	8.33	1.68	2.11	-	5.02
108	1.92	1.41	3.13	4.97	2.65	1.52	-	15.60	.93	.17	-	1.71
302	2.39	1.54	1.79	1.12	.75	2.58	-	10.17	4.70	1.00	1.15	5.29
223	1.34	1.85	2.63	1.91	.53	1.36	-	10.12	1.68	.71	-	4.58
306	1.34	1.00	3.51	4.43	4.57	3.73	-	18.58	.97	.77	1.11	6.08
214	2.48	3.29	4.48	.44	5.61	.88	-	17.18	1.26	.93	-	1.60
311	2.15	4.03	3.63	5.43	3.19	1.93	-	20.36	.62	.68	-	11.35
211	1.99	2.09	3.20	2.47	.50	2.64	-	12.89	5.47	3.04	1.30	1.58
112	2.90	2.08	2.97	2.81	1.72	6.90	-	19.38	1.82	.80	-	6.62
114	.89	.68	2.54	1.73	3.57	1.16	.97	11.54	.75	.61	-	.80
408	.96	1.01	3.46	1.51	-	1.18	.28	8.40	1.03	.96	.14	6.62
512	1.31	2.12	2.04	4.61	1.49	3.16	-	14.73	3.17	1.85	.61	2.78
608	2.14	2.00	4.24	1.09	-	2.73	-	12.20	7.07	3.48	1.09	2.63
206	1.84	1.77	2.72	.40	-	1.73	-	8.46	1.82	.85	-	4.84
118	1.28	2.26	3.10	1.77	-	1.19	-	9.60	1.19	1.41	-	1.36
412	1.89	1.23	3.97	3.62	1.85	1.45	-	14.01	4.69	1.00	.95	5.17
102	.92	.87	2.98	3.55	-	3.73	.29	12.34	1.01	1.03	-	1.69
219	2.34	2.57	4.44	4.10	.41	3.37	-	17.23	1.76	.46	-	4.01
119	3.34	2.53	5.42	5.13	.51	2.60	-	19.53	4.23	2.22	-	10.76
203	.65	1.13	3.53	2.77	-	.57	1.52	10.17	.68	.92	-	.64
122	1.46	1.01	4.22	.31	5.13	.76	-	12.89	1.32	1.04	-	2.26
303	2.90	2.96	3.38	2.24	12.55	3.09	-	27.12	1.86	1.55	-	1.48
208	3.07	2.76	2.97	2.57	.30	2.12	-	13.79	8.82	4.47	-	1.55
213	1.39	2.01	6.42	.70	3.29	2.43	-	16.24	1.56	1.87	-	6.34
111	1.80	3.05	7.73	1.20	-	2.59	2.09	18.46	1.20	1.17	-	5.09
Ave.	1.61	1.70	3.31	2.37	1.58	2.36	.16	13.09	2.13	1.30	.27	4.35

Costs and Returns per Acre for Barley

211	\$1.53	\$1.61	\$3.53	\$2.31	\$ -	\$2.62	\$ -	\$11.60	\$2.12	\$2.03	\$ -	\$.46
212	1.70	2.32	3.28	3.11	4.92	3.99	-	19.32	2.49	1.25	-	1.75
202	1.33	1.72	2.92	.51	5.71	1.48	-	13.67	1.98	1.76	-	3.99
105	2.32	2.11	4.00	.83	2.58	1.76	-	13.60	1.17	.92	-	4.71
512	1.93	1.90	4.96	4.61	1.02	3.16	-	17.58	5.70	2.62	.49	2.93
608	5.04	3.59	10.98	1.09	-	2.75	-	23.45	6.95	5.05	-	2.63
Ave.	2.02	2.04	4.21	2.06	2.85	2.40	-	15.58	2.92	1.81	.12	3.39

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 Man	Tract.	Harvest Man	Tract.	Horse
\$.25	\$8.27	\$10.00	\$34.31	\$51.23	\$16.92	\$.51	67.4	2.6	2.3	1.9	3.6	1.9	-
-	6.53	10.00	25.05	36.58	11.53	.52	48.1	2.8	1.4	1.0	1.7	1.4	-
-	8.54	10.00	33.15	47.09	13.94	.53	62.0	3.0	1.2	1.2	2.7	1.7	-
-	8.81	10.00	27.14	35.97	8.83	.57	47.3	2.2	2.0	2.0	3.5	2.8	-
4.00	6.81	10.00	32.41	43.55	11.14	.57	57.3	2.7	2.4	1.7	3.0	1.1	-
-	12.14	10.00	32.31	40.80	8.49	.60	53.7	1.8	3.0	2.7	5.9	1.8	-
8.18	15.15	10.00	35.27	41.47	6.20	.65	54.6	2.7	1.7	1.7	3.8	1.7	-
-	8.93	10.00	37.51	43.41	5.90	.66	57.1	3.1	1.7	1.6	2.2	1.7	-
2.51	6.30	10.00	33.48	37.49	4.01	.68	49.3	4.5	3.1	2.7	3.2	1.3	-
1.51	14.16	10.00	44.52	48.97	4.45	.69	64.4	3.0	2.7	2.6	3.3	2.1	-
-	11.39	10.00	34.28	37.62	3.34	.69	49.5	3.1	2.5	2.5	6.8	3.6	-
-	9.24	10.00	38.62	41.12	2.50	.71	54.1	3.0	3.6	3.3	3.4	2.9	-
4.00	6.16	10.00	27.70	28.66	.96	.73	37.7	2.5	1.1	.9	1.7	1.5	-
-	8.75	10.00	27.15	28.06	.91	.74	36.9	3.4	1.2	1.0	1.8	1.4	-
-	8.41	10.00	33.14	33.81	.67	.74	44.5	1.8	1.6	1.5	4.0	1.0	1.2
-	14.27	10.00	36.47	36.89	.42	.75	48.5	2.9	2.7	2.7	8.8	4.6	-
-	7.51	10.00	25.97	25.59	-.38	.77	33.2	2.6	2.3	2.3	3.4	3.4	-
4.87	8.83	10.00	28.43	27.55	-.88	.78	36.2	3.1	1.6	1.5	2.5	1.4	-
-	11.81	10.00	35.82	33.20	-2.62	.82	43.7	3.0	2.4	2.1	6.5	1.9	-
4.15	7.88	10.00	30.22	26.58	-3.64	.86	35.0	3.0	1.1	1.1	2.7	1.9	-
-	6.23	10.00	33.46	29.23	-4.23	.87	38.5	2.1	2.9	2.9	3.1	1.2	-
-	17.21	10.00	46.74	38.86	-7.88	.91	51.1	3.3	4.2	3.8	5.3	3.4	-
3.87	6.11	10.00	26.28	21.19	-5.09	.94	27.9	2.2	.8	.8	1.3	.7	-
-	4.62	10.00	27.51	22.04	-5.47	.95	29.0	3.9	1.8	1.6	1.7	1.7	-
4.46	9.35	10.00	46.47	36.64	-9.83	.96	48.2	3.1	3.6	3.4	4.1	2.6	-
1.70	16.54	10.00	40.33	25.83	-14.50	1.19	34.0	1.7	3.8	3.8	11.0	6.2	-
-	9.77	10.00	36.01	22.29	-13.72	1.23	29.3	5.1	1.7	1.2	2.0	1.2	-
1.56	9.02	10.00	37.48	16.63	-20.85	1.71	21.9	2.4	2.3	2.7	2.9	.7	-
1.31	9.36	10.00	32.45	34.45	2.00	.72	45.3	2.8	2.0	1.8	2.7	1.5	-

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

\$4.41	\$9.02	\$10.00	\$30.62	\$56.41	\$25.79	\$.66	46.6	2.1	1.9	1.9	2.6	2.2	-
1.29	6.78	10.00	36.10	44.03	7.93	.99	36.4	1.6	2.1	2.1	3.1	1.1	-
-	7.73	10.00	31.40	34.56	3.16	1.10	28.6	2.0	1.7	1.7	2.5	1.7	-
-	6.80	10.00	30.40	26.95	-3.45	1.37	22.3	1.6	2.9	2.8	1.5	1.2	-
3.57	15.31	10.00	42.89	33.57	-9.32	1.54	27.7	1.6	2.4	1.4	7.1	1.1	3.2
.85	15.48	10.00	48.93	32.87	-16.06	1.80	27.2	1.7	6.3	4.8	8.7	6.7	-
1.35	9.59	10.00	35.17	34.44	-.73	1.24	28.5	1.7	2.5	2.2	3.6	1.6	.5

1000 91.0 27.61 38.5 38.5 6.5 2

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	\$1.28	\$1.41	\$6.70	\$.57	\$.21	\$1.44	\$ -	\$11.61	\$2.17	\$1.44	\$ -	\$3.88	\$1.10	\$8.59
408	1.37	1.10	7.82	1.42	-	1.18	-	12.89	3.91	3.29	-	4.82	-	12.02
105	1.88	1.51	5.12	1.31	-	1.76	-	11.58	1.84	1.27	-	4.56	-	7.67
212	1.67	2.27	7.29	3.22	-	3.99	2.18	20.62	5.92	3.75	-	1.75	1.97	13.39
118	1.39	2.58	4.54	1.46	.29	1.18	-	11.44	1.55	2.37	-	.68	4.83	9.43
122	1.38	1.09	5.31	.16	-	.75	.89	9.58	2.04	1.60	-	2.26	-	5.90
Ave.	1.42	1.49	6.20	.95	.11	1.46	.30	11.93	2.48	1.90	-	3.34	1.05	8.77

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
114	\$2.85	\$2.42	\$2.77	\$1.10	\$ -	\$1.82	\$10.96	\$1.80	\$1.98	\$.80	\$3.91	\$8.49
206	1.96	1.85	3.96	.32	-	2.16	10.25	1.35	1.30	1.97	-	4.62
213	2.17	3.95	4.49	.76	-	2.00	13.37	1.94	1.66	1.49	-	5.09
202	2.24	2.88	4.92	.51	-	1.82	12.37	1.50	1.19	3.54	-	6.23
319	3.55	2.59	2.32	2.91	-	2.37	13.74	.40	.31	1.08	3.75	5.54
608	4.85	3.95	4.03	1.09	.89	2.78	17.59	.91	.06	.44	2.99	4.40
Ave.	2.65	2.86	4.00	.84	.11	2.12	12.58	1.42	1.19	1.79	1.14	5.54

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
223	\$3.47	\$4.75	\$1.72	\$1.81	\$4.85	\$2.86	\$19.46	\$3.74	\$2.26	\$5.73	\$ -	\$11.73
102	2.08	1.90	2.04	3.24	-	3.34	12.60	5.46	5.04	4.44	-	14.94
212	1.18	1.61	1.35	3.22	4.55	4.14	16.05	8.26	4.10	4.97	-	17.33
208	3.73	3.36	1.96	1.93	1.23	-	12.21	5.55	4.51	.81	3.73	14.60
508	1.95	1.99	1.75	2.82	.18	5.38	14.07	4.05	3.76	4.76	-	12.57
203	2.48	4.28	.93	3.18	-	2.19	13.06	2.00	1.24	.25	16.00	19.49
311	3.10	5.85	1.94	5.49	-	2.00	18.38	5.10	11.51	5.30	-	21.91
108	4.72	3.43	1.57	6.66	2.19	1.54	20.11	6.02	6.28	3.89	-	16.19
608	3.68	3.38	1.16	1.44	5.88	3.09	18.63	6.48	5.85	10.78	-	23.11
105	3.20	2.82	1.43	.83	10.22	18.13	36.63	3.43	1.30	5.66	-	10.39
211	3.86	4.05	1.64	3.73	3.08	4.80	21.16	6.21	3.04	.23	16.38	25.86
219	4.43	4.87	1.57	4.03	6.24	3.83	24.97	8.00	7.04	1.04	-	16.08
412	4.31	2.73	2.23	3.42	-	1.97	14.66	8.61	6.14	6.07	-	20.82
119	5.05	3.92	1.08	8.30	2.27	3.05	23.67	11.55	4.83	1.60	-	17.98
118	4.33	5.09	2.04	1.46	2.94	2.20	18.06	6.33	7.09	.68	3.91	18.01
408	3.80	4.37	1.61	1.42	5.50	1.58	18.28	9.80	3.88	3.13	11.23	28.04
303	4.08	4.19	2.37	1.54	10.56	5.63	28.37	8.16	7.90	3.77	10.20	30.03
319	5.71	3.96	2.00	2.52	7.39	5.90	27.48	6.47	3.78	7.09	-	17.34
Ave.	3.40	3.50	1.65	3.50	2.88	3.82	18.75	6.19	5.01	3.77	2.92	17.89

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	\$30.20	\$72.86	\$42.66	\$1.60	18.92	1.1	1.6	1.3	-	2.7	1.4	-
10.00	34.91	72.44	37.53	1.86	18.82	1.3	1.7	1.1	-	4.9	3.4	-
10.00	29.25	43.77	14.52	2.57	11.37	1.0	2.4	1.9	-	2.3	1.7	-
10.00	44.01	56.14	12.13	3.02	14.58	1.0	2.0	2.0	-	7.4	3.4	-
10.00	30.87	22.60	-8.27	5.26	5.87	1.0	1.7	1.7	-	1.9	1.5	-
10.00	25.48	16.73	-8.75	5.86	4.35	.8	1.7	1.7	-	2.5	2.5	-
10.00	30.70	52.79	22.09	2.24	13.7	1.0	1.8	1.5	-	3.1	2.1	-

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	\$29.45	\$67.93	\$38.48	\$1.15	25.6	1.0	3.6	3.6	-	2.2	1.8	-
10.00	24.87	56.67	31.80	1.16	21.4	1.3	2.4	2.4	.57	1.7	1.7	-
10.00	28.46	53.66	25.20	1.40	20.2	1.2	2.7	2.7	-	2.4	1.0	-
10.00	28.60	40.30	11.70	1.88	15.2	.9	2.8	2.8	-	1.9	1.1	-
10.00	29.28	37.27	7.99	2.08	14.1	.9	4.4	4.3	.2	.5	-	-
10.00	31.99	39.75	7.76	2.13	15.0	1.0	6.1	4.0	2.7	1.1	-	-
10.00	28.12	50.40	22.28	1.48	19.0	1.1	3.3	3.0	.3	1.8	1.1	-

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	\$41.19	-	-	\$2.66	15.5	.20	4.3	4.2	-	4.7	2.0	-
10.00	37.54	-	-	3.25	11.5	.20	2.6	2.5	-	6.8	6.6	-
10.00	43.38	-	-	3.31	13.1	.16	1.5	1.5	-	10.3	3.4	1.0
10.00	36.81	-	-	3.33	11.1	.15	4.7	4.7	-	6.9	6.3	-
10.00	36.64	-	-	3.86	9.5	.21	2.4	2.4	-	5.1	4.5	-
10.00	42.55	-	-	4.01	10.6	.16	3.1	3.1	-	2.5	.9	-
10.00	50.29	-	-	4.23	11.9	.25	3.0	3.8	-	6.4	7.4	-
10.00	46.30	-	-	4.86	9.5	.19	5.9	5.0	-	7.5	9.2	-
10.00	51.74	-	-	4.93	10.5	.27	4.6	4.5	-	8.1	7.8	-
10.00	57.02	-	-	4.99	11.4	.19	4.0	3.7	-	4.3	1.7	-
10.00	57.02	-	-	5.53	10.3	.16	4.8	4.8	-	7.8	3.6	-
10.00	51.05	-	-	5.72	8.9	.23	5.5	5.5	-	10.0	8.0	-
10.00	45.48	-	-	5.91	7.7	.15	5.4	3.9	1.5	10.8	10.8	-
10.00	51.65	-	-	7.00	7.4	.13	6.3	5.9	-	14.4	7.3	-
10.00	46.07	-	-	7.89	5.8	.20	5.4	3.4	-	7.9	4.8	-
10.00	56.32	-	-	8.04	7.0	.20	4.8	4.5	-	12.3	4.0	-
10.00	68.40	-	-	12.42	5.5	.01	5.0	3.9	2.4	10.2	9.1	-
10.00	54.82	-	-	15.35	3.6	.24	7.1	6.4	-	8.1	6.2	-
10.00	46.64	-	-	4.93	9.5	.18	4.2	3.9	.2	7.7	5.7	-

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
208	\$3.79	\$3.41	\$1.96	\$1.94	\$ -	\$1.23	\$ -	\$12.33	\$1.18	\$1.00	\$.81	\$3.34	\$6.33
223	3.44	4.75	1.72	2.86	4.85	2.83	-	20.45	1.38	1.53	5.73	-	8.64
102	1.96	1.86	2.03	3.28	-	3.34	-	12.47	.83	.79	4.46	-	6.08
119	5.02	3.91	1.09	4.02	2.26	3.04	-	19.34	1.91	1.07	4.09	-	7.07
303	4.08	2.00	2.37	2.42	10.51	5.65	-	27.03	2.37	1.68	3.77	-	7.82
214	2.98	3.89	2.18	.43	4.28	1.62	-	15.38	3.08	2.45	3.55	-	9.08
213	3.06	5.58	2.19	.74	3.45	2.66	-	17.68	2.07	2.45	3.80	.46	8.78
202	3.74	4.19	2.33	.79	5.65	1.84	-	18.54	1.62	1.68	4.14	-	7.44
311	3.10	5.87	1.93	4.41	-	2.00	-	17.31	1.20	1.90	5.31	-	8.41
111	3.93	4.55	1.12	2.77	2.57	3.03	-	17.97	4.24	.73	.72	1.48	7.17
114	2.72	2.20	1.98	1.35	7.03	2.59	1.09	18.96	.97	.81	3.11	-	4.89
508	2.48	2.58	1.74	3.02	.18	5.03	-	15.03	1.30	1.34	4.75	-	7.39
122	3.29	2.58	2.19	.28	3.40	1.35	-	13.09	2.18	1.63	.49	4.28	8.58
512	3.39	5.57	1.75	3.26	2.26	4.60	-	20.83	3.20	3.26	4.31	-	10.77
412	4.00	2.79	2.23	4.40	-	1.98	-	15.40	3.56	2.37	6.07	-	12.00
302	3.68	2.74	1.66	3.20	3.26	4.42	2.10	21.06	2.21	.56	.88	3.76	7.41
112	3.71	2.85	1.42	3.26	4.47	2.40	-	18.11	4.35	2.21	4.64	-	11.20
203	2.48	4.25	.93	3.88	-	2.19	-	13.73	.39	.52	.25	5.00	6.16
206	2.91	2.80	.99	.79	-	2.08	-	9.57	1.45	1.39	2.41	-	5.25
212	4.04	4.97	1.35	8.64	4.56	4.16	-	27.72	1.89	.69	.76	2.75	6.09
211	3.89	4.08	1.63	6.64	3.08	4.80	-	24.12	4.16	1.52	.23	4.47	10.38
408	3.83	4.43	1.61	2.16	5.50	1.67	-	19.20	1.33	1.15	3.10	.06	5.64
306	5.08	3.35	2.39	4.41	4.28	3.73	-	23.24	1.50	.90	1.33	-	3.73
106	4.75	3.47	1.57	5.40	2.18	1.54	1.19	20.10	1.66	1.03	3.89	4.29	10.87
219	4.52	4.97	1.58	6.54	6.24	3.82	-	27.67	1.31	8.50	1.03	3.92	14.76
105	3.57	3.20	1.45	1.35	10.22	18.12	-	37.91	2.75	1.82	5.62	-	10.19
118	4.36	5.12	2.06	2.01	2.95	2.20	-	18.70	2.46	3.21	.68	3.99	10.34
319	5.82	4.49	1.99	3.30	7.39	5.92	-	28.91	1.68	.72	7.12	-	9.52
608	3.70	3.34	1.16	3.58	5.88	3.09	-	20.75	2.09	1.43	10.77	-	14.29
Ave.	3.50	3.77	1.81	2.40	3.72	3.20	.15	18.55	1.93	1.66	3.38	.89	7.86

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	\$28.66	\$118.64	\$89.98	\$.32	88.5	.12	4.7	4.7	-	1.5	1.4	-
10.00	39.09	133.05	93.96	.39	99.2	.12	4.3	4.2	-	1.7	1.3	-
10.00	28.55	94.78	66.23	.40	70.7	.16	2.5	2.4	-	1.0	1.0	-
10.00	36.41	109.95	73.54	.44	82.0	.13	6.3	5.9	-	2.4	1.6	-
10.00	44.85	132.25	87.40	.45	98.7	.13	5.1	3.9	2.3	3.0	1.9	-
10.00	34.46	102.57	68.11	.45	76.6	.15	3.8	3.2	-	3.9	2.0	-
10.00	36.46	106.05	69.59	.46	79.1	.22	3.8	3.8	-	2.6	1.7	-
10.00	35.98	101.86	65.88	.47	76.0	.15	4.7	4.1	-	2.0	1.6	-
10.00	35.72	102.59	66.87	.47	76.6	.20	3.9	3.8	-	1.5	1.2	-
10.00	35.14	99.21	64.07	.47	74.0	.12	4.9	4.0	-	5.3	.7	-
10.00	33.85	93.91	60.06	.48	70.1	.17	3.4	3.1	-	1.2	1.2	-
10.00	32.42	84.69	52.27	.51	63.2	.17	2.4	2.4	-	1.6	1.6	-
10.00	31.67	83.74	52.07	.51	62.5	.21	4.1	4.1	-	2.7	2.6	-
10.00	41.60	109.51	67.91	.51	81.7	.23	4.2	4.0	.4	4.0	2.3	.5
10.00	37.40	97.15	59.75	.52	72.5	.19	5.0	4.2	1.2	4.5	3.8	-
10.00	38.47	91.96	53.49	.56	68.6	.16	4.6	3.5	2.0	2.8	1.0	-
10.00	39.31	91.96	52.65	.57	68.6	.09	5.0	5.0	-	5.4	3.5	-
10.00	29.89	68.74	38.85	.58	51.3	.12	3.1	3.1	-	.5	.4	-
10.00	24.82	53.70	28.88	.62	40.1	.16	3.6	3.6	-	1.8	1.8	-
10.00	43.81	92.07	48.26	.64	68.7	.12	1.4	1.4	-	2.4	.3	1.1
10.00	44.50	93.42	48.92	.64	69.7	.12	4.9	4.9	-	5.2	1.8	-
10.00	34.84	70.84	36.00	.66	52.9	.13	4.8	4.6	-	1.7	1.2	-
10.00	36.97	73.35	36.38	.68	54.7	.18	6.4	5.3	-	1.9	1.4	-
10.00	40.97	79.35	38.38	.69	59.2	.15	5.9	5.1	-	2.1	1.4	-
10.00	52.43	91.91	39.48	.76	68.6	.17	5.7	5.7	-	1.6	1.0	-
10.00	58.10	100.13	42.03	.77	74.7	.15	4.0	3.6	-	3.4	2.4	-
10.00	39.04	66.37	27.33	.78	49.5	.15	5.5	3.5	-	3.1	2.2	-
10.00	48.43	74.17	25.74	.87	55.3	.18	7.3	6.6	-	2.1	1.2	-
10.00	45.04	41.58	-3.46	1.45	31.0	.21	4.6	4.5	-	2.6	1.9	-
10.00	36.41	91.90	55.49	.53	68.6	.16	4.4	4.0	.1	2.4	1.6	-

Costs and Returns per Acre for Alfalfa Mixtures

Farm No.	Pre-Harvest Costs					Harvesting							
	Fert. & Com.		Total			Mow and Rake			Put up Hay				
	Seed	Manure	Fert.	Other	Total	Man	Power	Mach.	Man	Power	Mach.	Custom	Twine
311	\$6.44	\$4.12	\$ -	\$ -	\$10.56	\$.81	\$.81	\$1.40	\$3.80	\$1.72	\$11.20	\$3.82	\$ -
212	7.31	3.22	-	-	10.53	3.64	3.43	1.67	5.67	2.54	1.16	-	-
111	2.25	1.20	-	-	3.45	2.86	2.82	3.24	3.96	.51	.43	13.69	-
219	5.89	4.63	-	-	10.52	1.61	1.61	3.17	4.92	3.78	7.00	1.89	-
203	5.30	3.16	-	-	8.46	1.33	1.28	6.31	2.06	.96	.64	13.36	-
306	6.50	4.05	-	-	10.55	1.11	1.11	1.26	3.37	1.95	.87	1.49	3.07
208	2.35	3.54	-	-	5.89	1.53	1.53	.65	.79	.58	.70	-	7.97
112	5.12	4.43	-	-	9.55	1.54	1.16	1.36	3.53	3.62	5.12	-	-
211	5.76	2.46	-	-	8.22	1.31	1.10	1.86	2.17	.55	.24	6.42	-
608	5.52	2.03	-	-	7.55	2.37	2.20	2.99	3.13	1.11	.86	7.17	-
118	6.14	1.74	-	-	7.88	1.64	1.64	1.62	2.90	1.08	.68	4.65	-
213	11.69	5.12	1.20	-	18.01	1.00	1.00	.98	1.07	.39	.89	6.37	-
114	6.15	-	-	-	6.15	.82	.82	1.49	.83	.44	.56	2.54	-
303	5.79	1.90	1.03	-	8.72	2.23	2.02	3.18	2.23	.94	.74	7.91	-
119	6.24	3.36	-	-	9.60	1.67	1.48	4.38	3.51	2.80	10.13	-	-
223	5.39	2.20	-	-	7.59	2.06	1.00	1.50	.98	.91	3.96	-	3.49
412	5.14	7.44	-	-	12.58	1.58	1.50	3.76	1.86	1.31	7.57	-	-
108	6.50	3.59	1.50	-	11.59	2.31	2.06	6.39	6.28	2.94	2.82	1.85	-
302	6.19	1.46	-	-	7.65	.81	.81	2.22	1.89	1.10	1.16	5.17	1.72
105	8.34	3.06	-	-	11.40	2.04	2.00	4.34	4.87	3.25	16.25	-	-
206	6.23	.30	-	-	6.53	.78	.78	.75	1.00	1.00	.97	-	-
319	6.42	3.08	-	-	9.50	.96	.92	6.65	.71	.35	6.52	-	-
512	5.91	3.79	.85	.46	11.01	.84	.80	.80	1.45	.35	.43	3.26	.75
102	6.50	3.71	-	-	10.21	1.35	1.35	5.65	2.60	.39	1.26	7.57	-
508	7.65	6.11	-	-	13.76	.50	.48	1.34	1.20	.80	.40	-	1.50
Ave.	6.14	3.04	.18	.05	9.41	1.39	1.23	2.24	2.29	1.25	2.85	3.17	.68

Notes:

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

Costs					Land Charge	Total Cost	Production, tons			Cost per T. Hay Eq.	Times cut	Hours		
Man	Power	Mach.	Silage Custom	Total			Hay	Silage	Hay*			Equiv.	Man	Tractor
\$1.53	\$.72	\$2.65	\$ -	\$28.46	\$10.00	\$49.02	3.5	3.6	4.7	\$10.46	1.8	7.7	4.1	-
				18.11	10.00	38.64	3.6	-	3.6	10.72	2.7	11.6	4.4	6.9
				27.51	10.00	40.96	3.0	-	3.0	13.48	3.0	8.5	4.2	-
				23.98	10.00	44.50	3.1	-	3.1	14.20	1.9	8.2	6.7	-
				25.94	10.00	44.40	3.1	-	3.1	14.39	2.0	4.2	2.8	-
				14.23	10.00	34.78	2.4	-	2.4	14.77	1.8	5.6	3.8	-
				13.75	10.00	29.64	2.0	-	2.0	15.02	1.6	2.9	2.6	-
				16.33	10.00	35.88	2.4	-	2.4	15.15	1.5	6.3	7.7	-
1.71	.43	.10	2.59	18.48	10.00	36.70	1.8	1.7	2.4	15.62	1.3	6.5	3.0	-
				19.83	10.00	37.38	2.4	-	2.4	15.25	2.0	6.9	2.6	3.4
				14.21	10.00	32.09	2.1	-	2.1	15.33	2.4	5.7	3.4	-
2.88	2.49	.59	2.51	20.17	10.00	48.18	1.7	4.2	3.0	15.78	2.0	6.2	4.8	-
1.84	.43	.36	8.72	18.85	10.00	35.00	.9	3.5	2.1	17.08	1.6	4.4	2.1	-
2.78	1.55	-	4.01	27.59	10.00	46.31	2.2	1.5	2.7	17.32	2.0	9.0	5.2	.9
1.16	.93	2.03	-	28.09	10.00	47.69	2.1	1.8	2.7	17.86	1.9	7.9	6.5	-
				13.90	10.00	31.49	1.7	-	1.7	18.63	1.5	3.8	2.3	-
2.56	1.44	3.56	-	25.14	10.00	47.72	1.5	2.9	2.5	19.24	1.7	7.5	5.9	1.8
				24.65	10.00	46.24	2.4	-	2.4	19.33	2.6	10.7	6.3	-
.27	.20	.12	.51	15.98	10.00	33.63	1.2	1.3	1.6	20.42	1.4	3.7	3.3	-
.60	.42	2.60	-	36.37	10.00	57.77	2.4	1.0	2.7	21.48	1.4	9.4	7.1	-
3.92	3.91	2.23	-	15.34	10.00	31.87	.3	3.5	1.5	22.55	1.4	7.1	7.1	-
4.76	4.09	5.61	-	30.57	10.00	50.07	.9	3.6	2.1	23.47	2.2	8.0	6.7	-
.54	.30	.08	2.26	11.86	10.00	32.87	.9	1.4	1.4	23.90	1.9	3.5	1.5	.7
				20.17	10.00	40.38	1.6	-	1.6	24.83	2.6	4.9	2.2	-
				6.22	10.00	29.98	1.2	-	1.2	26.17	1.0	2.1	1.6	-
.94	.59	.66	1.18	18.47	10.00	37.88	1.7	1.3	2.2	17.36	1.7	5.8	3.8	.5

* One ton hay equivalent is equal to three tons of 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.
608	5.6	-	-	.9	\$4.73	-	-	\$ -	\$ 4.73	16.2	0
206	2.9	3.7	1.0	5.8	6.08	-	-	-	6.08	68.3	0
512	4.0	1.3	-	.8	4.47	0-30-30	93	2.85	7.32	74.1	49
223	5.1	-	-	1.3	3.94	0-30-15	170	3.62	7.56	47.1	95
408	5.7	10.8	-	-	8.04	-	-	-	8.04	27.9	0
105	3.5	3.9	-	1.2	4.15	6-24-12	175	4.42	8.57	51.6	100
203	6.7	7.4	-	-	8.79	-	-	-	8.79	26.9	0
208	5.6	4.6	-	-	5.74	0-20-0	185	3.20	8.94	10.8	100
202	8.0	-	-	-	6.40	0-62-0	80	3.26	9.66	10.0	100
114	8.5	-	-	3.1	6.69	8-32-0	170	4.10	10.79	59.0	100
302	5.6	3.1	-	1.9	6.60	0-30-15	95	4.28	10.88	31.8	100
311	8.1	2.5	.5	.5	7.72	8-16-16	185	3.45	11.17	29.8	100
118	8.0	6.7	3.4	1.3	9.60	0-62-0	44	1.72	11.32	15.0	33
108	8.9	7.4	-	-	7.71	0-49-0	140	4.91	12.62	13.5	100
213	8.0	4.4	-	2.7	8.99	8-32-0	180	4.49	13.48	22.5	100
211	5.6	2.3	-	4.4	9.17	0-10-10	140	4.39	13.56	21.4	75
119	8.0	5.2	2.0	2.0	8.87	0-20-10	207	4.70	13.57	25.1	72
412	8.9	-	2.5	-	7.46	4-16-16	333	7.55	15.01	18.0	100
306	3.0	4.3	3.5	3.6	6.50	5-20-20	350	8.60	15.10	46.1	100
319	8.5	8.5	-	-	10.08	0-48-0	170	5.82	15.90	11.8	100
112	6.1	6.8	-	-	7.94	0-20-10	395	9.57	17.51	29.6	100
219	16.6	3.8	-	-	14.78	0-20-10	150	3.44	18.22	13.1	51
212	10.5	-	-	-	8.55	0-20-20	315	10.44	18.99	11.4	100
303	6.5	5.4	2.7	6.5	9.55	0-20-10	540	14.54	24.09	9.2	100
Ave.	5.9	3.4	.6	1.9	6.78	-	154	3.97	10.75	28.8	70

Costs and Returns for Feeder Cattle - Per 100 Pounds Produced

Farm No.	Costs							Misc. Cost	Value Produced	Return Over Costs	Return per Hour
	Feed	Labor	Shel-ter	Equip-ment	Inter-est	Power	Total				
317	\$13.86	\$1.39	\$.62	\$.16	\$1.33	\$.49	\$.38	\$18.23	\$29.33	\$11.10	\$ 7.20
119	14.89	1.97	1.35	-	1.49	.13	.89	20.72	25.39	4.67	2.70
519	21.56	.76	.39	.17	1.53	.20	.72	25.33	25.60	.27	1.09
129	22.26	3.69	1.98	.23	.83	.56	.10	29.65	27.28	-2.37	.29
213	16.26	1.82	.46	.34	1.90	.66	.43	21.87	18.02	-3.85	none
224	18.75	1.41	2.34	.59	2.53	.32	.52	26.46	19.87	-6.59	none
130	20.20	4.29	-	-	3.41	.01	-	27.91	15.11	-12.80	none
Ave.	19.12	1.39	.74	.23	1.71	.33	.56	24.08	23.70	-.38	.58

Distribution of Acres in Farms

Crop	Farms Growing Crop				Average of		Average Yield	
	* Dairy		Beef & Hogs		All Farms		ton or bu.	
	No.	Ave. Acreage	No.	Ave. Acreage	Dairy Cattle	Beef & Hogs	Dairy	Beef & Hogs
Flax	3	15.2	3	36.8	2.2	13.8	10.2	15.2
Oats	20	32.3	8	50.6	30.7	50.6	45.6	44.8
Barley	5	16.0	1	21.0	3.8	2.6	28.4	28.6
Wheat	5	12.3	1	10.4	2.9	1.4	15.6	15.6
Total Small Grain					39.6	68.4		
Corn, grain	21	39.6	8	100.6	39.6	100.6	68.8	68.3
Corn, silage	16	7.8	2	17.0	6.0	4.2	9.5	9.2
Soybeans	3	32.5	3	34.7	4.6	13.0	18.5	19.5
Total Cultivated Crops					50.2	117.8		
Alfalfa mixtures	21	36.1	4	53.0	36.1	26.5	2.2	1.9
Other tame hay	4	3.8	3	29.2	.7	11.0		
Other crops	4	9.0	-	-	1.7	-		
Total					38.5	37.5		
Total Crop Acres					128.3	223.7		
Rotational pasture	18	16.0	7	15.2	13.8	13.3		
Total Tillable Land					142.1	237.0		
Permanent pasture	16	27.1	3	70.4	20.6	26.4		
Farmstead,					5.8	10.4		
Timber, waste and roads					10.7	13.4		
Total Farm	21		8		179.2	287.2		

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

Factors of Costs and Returns for Feeder Cattle

Average Pounds Number Head	Pounds Produced	Feeds Fed, Lbs.					Total	Labor, Hours		
		Roughages		Concentrates				Feed-Water	Clean -Bed	Misc.
		Hay	Silage	Corn	Grain	Comm.				
41.8	21,390	232	234	338	19	34	1.7	1.4	.3	-
18.5	9,425	233	679	269	63	43	2.5	1.8	.4	.3
151.3	96,555	318	300	408	65	61	1.0	.7	.1	.2
13.4	9,330	857	1,072	391	9	39	4.6	3.8	.6	.2
63.4	33,510	457	137	372	-	29	2.3	1.7	.2	.4
50.8	21,069	142	1,737	409	-	7	1.8	1.3	.3	.2
15.2	7,200	306	1,486	109	-	57	5.4	4.3	1.0	.1
50.6	28,431	333	514	375	37	45	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			
123	\$137.78	\$ 54.37	\$ 2.70	\$11.47	\$10.20	\$ 1.25	\$27.44	\$ -	\$245.21	\$334.78	\$ 89.57	\$ 2.12
116	117.15	69.54	31.22	17.24	7.90	.82	23.44	7.71	275.02	356.85	81.83	1.74
214	185.22	72.40	26.04	10.22	9.20	3.36	16.34	13.24	336.02	407.49	71.47	1.59
122	131.65	63.38	16.30	3.78	6.95	1.92	27.51	-	251.49	322.84	71.35	1.70
113	93.93	90.44	21.62	5.54	11.30	1.00	3.14	-	226.97	288.18	61.21	1.34
523	138.50	68.23	13.58	15.84	11.00	4.68	16.82	-	268.65	323.83	55.18	1.45
234	169.83	84.04	10.13	14.83	12.00	5.29	47.02	-	343.14	386.31	43.17	1.21
423	149.46	99.92	28.61	19.26	12.00	3.67	20.18	-	333.10	356.71	23.61	.99
314	120.61	67.76	28.23	19.09	10.60	2.16	17.19	-	265.64	282.94	17.30	1.00
119	142.87	68.50	9.92	3.71	9.50	1.69	14.58	-	250.77	258.95	8.18	.90
230	171.75	83.59	28.27	5.03	10.40	3.52	28.85	9.24	340.65	345.26	4.61	.84
619	100.43	69.06	8.76	5.35	12.00	3.75	15.91	17.98	233.24	234.18	.94	.81
222	173.47	72.21	6.59	12.22	12.00	3.39	30.76	12.97	323.61	299.75	-23.86	.54
130	153.63	100.90	47.96	11.79	10.40	1.20	37.72	-	363.60	338.60	-25.00	.60
313	224.04	108.68	22.22	19.77	11.50	1.33	29.70	-	417.24	369.23	-48.01	.45
330	163.98	100.20	60.38	13.47	8.40	9.51	21.05	-	376.99	324.78	-52.21	.32
223	195.68	89.20	32.42	5.93	9.80	6.85	27.75	11.88	379.51	324.47	-55.04	.31
219	167.49	91.16	19.73	14.63	9.60	.71	11.14	-	314.46	256.79	-57.67	.29
217	148.26	100.63	40.20	13.53	10.12	1.32	20.69	-	334.75	252.70	-82.05	.15
129	115.88	154.03	39.21	25.85	10.10	5.99	12.23	-	363.29	225.20	-138.09	.08
125	202.90	96.11	8.69	12.98	11.10	2.24	14.89	-	348.91	206.56	-142.35	.38
Ave.	151.20	80.08	21.63	11.77	10.37	3.12	24.05	4.60	306.82	322.22	15.40	.95

DIVISION OF AGRICULTURE
 REPORT TO THE BOARD OF AGRICULTURE
 - 14 -

Factors of Costs and Returns for Dairy Cows - Per Cow

Farm No.	No. of Cows	Pounds Butter-fat	Feeds Fed, Lbs.					Labor, Hours				
			Roughages		Concentrates			Total	Feed-Water	Clean -Bed	Milk-ing*	Misc.
			Hay	Silage	Corn	Grain	Comm.					
123	24.1	327	6,224	-	1,208	1,224	366	68	14	9	44	1
116	20.5	361	3,415	4,293	948	837	98	87	19	10	48	10
214	27.8	338	2,518	734	4,029	-	619	90	13	11	56	10
122	18.4	265	6,305	-	989	494	560	79	18	8	50	3
113	10.5	307	4,000	11,048	-	457	67	114	16	10	76	12
523	25.7	321	6,537	5,136	800	916	410	85	21	10	49	5
234	30.2	363	5,695	7,615	1,294	534	1,026	105	23	12	62	8
423	15.9	379	6,163	9,559	116	1,141	192	124	22	17	81	4
314	17.0	278	4,941	5,647	1,021	757	183	85	8	13	60	4
119	12.8	277	3,360	8,438	1,750	875	266	88	24	8	54	2
230	22.5	328	4,801	7,912	1,418	2,066	174	104	19	11	74	-
619	26.7	237	3,370	5,243	640	891	316	85	22	20	42	1
222	18.5	295	4,594	13,891	1,292	1,778	234	90	26	17	46	1
130	20.2	298	3,763	10,446	1,153	406	963	126	37	24	61	4
313	9.9	310	12,676	7,878	871	1,364	613	136	26	9	93	8
330	7.8	310	5,128	12,563	1,723	472	338	125	33	6	81	5
223	16.5	294	5,818	6,910	2,274	2,114	212	112	24	15	65	8
219	10.9	274	5,963	12,935	1,295	440	679	114	32	13	66	3
217	10.2	266	1,569	18,628	527	1,719	206	125	39	26	57	3
129	5.1	263	5,491	5,883	824	816	171	193	42	37	108	6
125	6.9	165	1,739	28,980	406	3,362	-	120	40	10	64	6
Ave.	17.1	310	4,900	7,204	1,291	993	414	99	22	13	59	5

* Includes milking, handle milk, and milking equipment.

Costs and Returns for Other Dairy Cattle - Per Head

Farm No.	Costs						Value Produced	Return Over Costs	Return per Hour	
	Feed	Labor	Shel-ter	Inter-est	Power	Misc. Cash				Total
123	\$59.74	\$12.71	\$ 3.68	\$ 4.60	\$.65	\$.55	\$ 81.93	\$170.46	\$ 88.53	\$6.38
423	43.04	13.16	28.78	4.36	1.10	.19	90.63	162.27	71.64	5.15
222	87.07	14.69	5.14	5.38	1.19	1.37	114.84	159.72	44.88	3.24
217	36.81	7.73	10.59	5.30	.11	1.03	61.57	101.12	39.55	4.89
230	83.41	10.40	7.68	5.71	.42	.95	108.57	145.71	37.14	3.66
219	39.04	25.63	6.74	5.57	.18	.92	78.08	110.20	32.12	1.80
523	65.92	13.97	1.42	5.43	.87	2.89	90.50	116.84	26.34	2.31
223	48.00	13.44	23.03	4.71	2.97	.28	92.43	117.48	25.05	2.29
119	48.63	10.38	3.88	4.94	.33	1.66	69.82	91.76	21.94	2.49
313	88.43	15.48	5.05	5.08	.18	.01	114.23	130.49	16.26	1.64
234	65.39	27.71	9.74	4.66	2.60	8.54	118.64	134.16	15.52	1.25
619	60.44	15.52	3.17	6.58	.50	.72	86.93	99.00	12.07	1.42
113	44.71	5.15	5.51	6.77	.39	.80	63.33	73.51	10.18	2.38
116	38.57	22.32	13.23	4.44	.69	.93	80.18	89.36	9.18	1.13
314	52.50	6.60	11.25	6.60	.22	.50	77.67	83.72	6.05	1.53
129	45.03	25.70	42.55	5.38	.47	11.58	130.71	132.12	1.41	.84
125	37.17	12.00	4.35	6.35	.49	-	60.36	60.64	.28	.82
214	57.78	4.68	4.10	5.03	.01	1.40	73.00	40.38	-32.62	none
122	47.58	14.56	9.42	4.45	.38	.30	76.69	41.16	-35.53	none
130	66.64	22.92	19.46	5.18	.83	4.23	119.26	53.77	-65.49	none
330	56.64	25.67	26.03	3.77	4.90	-	117.01	39.23	-77.78	none
Ave.	57.31	13.81	9.55	5.40	.82	1.86	88.75	98.34	9.59	1.35

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

Farm No.	No. Head	Pounds Butter-fat	Feeds Fed, Lbs.					Labor, Hours			
			Roughages		Concen- trates	Skim Milk	Whole Milk	Total	Feed- Water	Clean -Bed	Misc.
			Hay	Silage							
123	17.7	327	1,752	-	755	-	675	16	9	6	1
423	15.5	379	2,645	2,032	403	155	52	16	8	6	2
222	17.7	295	1,526	1,639	1,235	-	654	18	8	9	1
217	27.0	266	1,185	3,519	581	-	29	10	6	3	1
230	17.7	328	2,034	2,034	985	-	1,062	13	9	4	-
219	9.8	274	816	1,531	3	2,194	562	32	30	2	-
523	31.8	321	2,453	1,258	1,015	1,001	219	17	12	4	1
223	17.5	294	1,257	1,828	864	-	290	17	6	10	1
119	16.5	277	1,636	5,334	506	-	47	13	10	3	-
313	18.4	310	326	1,413	764	-	955	19	16	2	1
234	34.5	363	3,073	-	679	2,261	524	35	20	11	4
619	31.5	237	1,651	2,477	656	-	656	19	11	8	-
113	41.2	307	1,650	2,524	225	-	88	6	4	1	1
116	12.4	361	1,936	1,613	501	-	70	28	15	12	1
314	33.6	278	1,488	2,916	695	-	209	8	4	3	1
129	4.7	263	2,128	1,702	181	2,004	329	32	29	1	2
125	9.2	165	652	5,435	366	-	350	15	11	2	2
214	38.5	338	779	-	1,771	-	67	6	5	1	-
122	17.2	265	2,093	-	382	-	252	18	12	6	-
130	33.2	298	1,958	3,735	757	-	367	29	18	9	2
330	9.1	310	1,538	3,956	571	-	189	32	27	2	3
Ave.	21.6	310	1,750	2,372	740	228	308	17	11	5	1

Costs and Returns for All Dairy Cattle - Per Cow

Farm No.	Costs									Value Produced	Return Over Costs	Return per Hour
	Feed	Man Labor	Shelter	Equip-ment	Inter-est	Power	Misc. Cash	Death Loss	Total			
123	\$181.66	\$ 63.70	\$ 5.39	\$11.48	\$13.58	\$ 1.73	\$27.83	\$ --	\$305.37	\$459.95	\$154.58	\$ 2.74
113	269.39	110.63	43.24	5.54	37.85	2.55	6.28	-	475.48	576.66	101.18	1.94
423	191.41	112.75	56.66	19.26	16.24	4.75	20.37	-	421.44	514.88	93.44	1.46
523	220.06	85.51	15.33	15.85	17.72	5.76	20.39	-	380.62	468.38	87.76	1.62
116	140.48	83.04	39.22	17.24	10.59	1.24	24.00	7.71	323.52	410.90	87.38	1.64
234	244.51	115.70	21.26	14.83	17.32	8.26	56.77	-	478.65	539.55	60.90	1.22
122	176.13	77.00	25.11	3.78	11.11	2.27	27.80	-	323.20	361.34	38.14	1.20
119	205.57	81.88	14.92	3.71	15.87	2.12	16.74	-	340.81	377.28	36.47	1.16
230	237.35	91.76	34.31	5.03	14.89	3.85	29.58	9.24	426.01	459.83	33.82	1.09
314	224.39	80.79	50.47	19.09	23.65	2.58	18.18	-	419.15	448.40	29.25	1.09
214	265.26	78.88	31.72	10.22	16.16	3.38	18.27	13.24	437.13	463.41	26.28	1.07
217	245.68	121.10	68.23	13.53	24.15	1.62	23.41	-	497.72	520.35	22.63	.95
222	256.77	86.26	11.51	12.22	17.15	4.53	32.07	12.97	433.48	452.56	19.08	.98
619	171.72	87.36	12.51	5.35	19.76	4.34	16.76	17.98	335.78	350.95	15.17	.94
313	388.34	137.44	31.61	19.77	20.94	1.66	29.73	-	629.49	611.69	-17.80	.70
223	246.63	103.48	56.85	5.93	14.79	10.01	28.05	11.88	477.62	449.14	-28.48	.58
219	202.59	114.20	25.78	14.63	14.61	.87	11.97	-	384.65	355.87	-28.78	.60
130	263.15	138.56	79.94	11.79	18.91	2.57	44.67	-	559.59	426.95	-132.64	.03
129	157.40	177.75	78.44	25.85	15.06	6.42	22.90	-	483.82	347.02	-136.80	.18
125	252.46	112.11	14.49	12.99	19.57	2.89	14.89	-	429.40	287.43	-141.97	none
330	230.05	130.15	90.76	13.48	12.80	15.22	21.05	-	513.51	370.55	-142.96	none
Ave.	223.94	97.60	33.75	17.22	11.77	4.16	26.40	4.61	419.45	447.03	27.58	1.03

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

Farm No.	No. Cows	Pounds Butter-fat	Feeds Fed, Lbs.				Labor, Hours					
			Roughages		Concentrates	Skim Milk	Whole Milk	Total	Feed-Water	Clean -Bed	Milk-ing*	Misc.
			Hay	Silage								
123	24.1	327	7,511	-	3,324	-	496	80	20	14	44	2
113	10.5	307	10,476	29,524	1,405	1,638	344	138	34	12	76	16
423	15.9	379	8,742	11,540	1,843	151	50	141	30	23	81	7
523	25.7	321	9,572	6,692	3,382	1,238	270	107	36	16	49	6
116	20.5	361	4,585	5,268	2,186	-	42	104	27	18	48	11
234	30.2	363	9,204	10,198	3,629	598	194	145	47	24	62	12
122	18.4	265	8,261	-	2,400	-	235	96	30	14	50	2
119	12.8	277	5,600	15,680	3,628	-	62	105	36	12	54	3
230	22.5	328	6,400	9,512	4,433	-	835	115	26	14	74	1
314	17.0	278	7,882	11,411	3,344	-	412	101	16	19	60	6
214	27.8	338	3,597	734	7,100	-	93	98	20	12	56	10
217	10.2	266	2,059	27,941	3,989	-	76	151	55	34	57	5
222	18.5	295	6,055	15,461	4,487	-	625	108	35	25	46	2
619	26.7	237	5,318	8,164	2,620	-	774	109	36	29	42	2
313	9.9	310	18,736	10,504	4,268	-	1,774	172	57	13	93	9
223	16.5	294	7,152	8,849	5,517	-	308	129	30	25	65	9
219	10.9	274	6,697	14,311	2,416	1,972	505	143	59	15	66	3
130	20.2	298	6,981	16,586	3,766	-	603	173	67	39	61	6
129	5.1	263	7,452	7,452	990	1,847	304	222	68	38	108	8
125	6.9	165	2,608	36,225	4,255	466	-	140	54	13	64	9
330	7.8	310	6,923	17,178	3,200	-	220	163	65	8	81	9
Ave.	17.0	310	7,124	10,216	3,624	289	391	122	37	20	59	6

* 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	Power	Misc. Cash	Total			
217	\$ 8.29	\$ 1.08	\$.44	\$.16	\$.77	\$.07	\$.19	\$11.00	\$18.71	\$ 7.71	\$6.48
519	9.92	.65	.17	.16	.20	.07	.13	11.30	17.70	6.40	8.72
125	12.44	.68	-	.33	.39	.37	.50	14.71	18.63	3.92	5.38
224	11.38	.58	.25	.08	.32	.12	.47	13.20	17.07	3.87	6.17
219	10.56	1.01	.52	.19	.23	.02	.44	12.97	16.69	3.72	3.75
322	13.97	1.33	.20	.32	.16	.22	.68	16.88	19.94	3.06	2.64
223	10.96	.90	.37	.13	.27	.14	.03	12.80	15.85	3.05	3.52
129	9.89	1.59	.76	.21	.32	.30	.26	13.33	16.35	3.02	2.31
133	9.17	1.50	.76	.36	.46	.10	.16	12.51	14.92	2.41	2.09
314	10.98	.97	-	.14	.19	.13	.05	12.46	14.77	2.31	2.71
317	12.72	1.12	.62	.42	.30	.24	.51	15.93	17.97	2.04	2.27
119	12.59	1.02	.41	.05	.29	.11	.71	15.18	17.09	1.91	2.30
123	12.55	1.05	.24	.17	.22	.10	.14	14.47	16.38	1.91	2.26
130	11.79	1.10	.41	.20	.30	.12	.29	14.21	15.40	1.19	1.67
213	14.76	1.12	.10	.13	.18	.22	.43	16.94	17.22	.28	1.00
523	14.03	1.50	.10	.83	.19	.29	.13	17.07	17.29	.22	.92
419	12.07	1.94	.03	.65	.13	.13	.99	15.94	15.80	-.14	.72
313	13.76	2.00	1.36	.49	.32	.15	.04	18.12	16.22	-1.90	.04
113	16.21	1.27	.71	.20	.33	.11	.45	19.28	17.02	-2.26	none
423	14.16	.89	-	1.15	.28	-	-	16.48	13.08	-3.40	none
234	16.67	2.64	.26	.18	.24	.25	.27	20.51	16.64	-3.87	none
330	13.91	4.05	.49	.35	.35	.89	.47	20.51	16.41	-4.10	none
230	16.03	2.65	.33	.13	.44	.26	-	19.84	15.39	-4.45	none
225	17.06	2.30	1.65	.80	.36	.12	1.18	23.47	16.20	-7.27	none
Ave.	12.67	1.27	.36	.30	.28	.19	.42	15.49	17.01	1.52	1.76

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

Farm No.	Pounds Produced	Feeds Fed, Lbs.				Pigs Weaned		Labor, Hours		
		Corn	Small Grains	Comm. Feed	Skim Milk	per Litter	Total	Feed-Water	Clean -Bed	Misc.
217	15,988	168	83	29	-	6.5	1.4	1.0	.3	.1
519	40,190	285	22	37	-	5.9	.8	.6	.1	.1
125	81,045	292	59	69	29	5.8	.9	.5	.1	.3
224	51,710	311	40	46	-	7.0	.7	.4	.1	.2
219	15,590	278	56	22	248	8.9	1.3	1.0	.1	.2
322	48,074	374	79	56	-	8.7	1.7	1.0	.6	.1
223	43,282	306	1	59	-	6.3	1.1	.8	.1	.2
129	21,280	185	180	12	121	5.4	2.0	1.3	.2	.5
133	25,125	279	13	30	-	5.6	1.9	1.3	.2	.4
314	17,295	262	42	83	-	6.3	1.2	.6	.1	.5
317	60,405	322	79	51	-	7.7	1.4	.9	.1	.4
119	55,908	285	89	58	-	7.7	1.3	.7	.4	.2
123	32,055	343	68	45	-	6.4	1.3	.9	.2	.2
130	62,902	291	76	48	-	9.1	1.4	.9	.3	.2
213	72,590	391	113	45	-	9.2	1.4	.9	.2	.3
523	41,900	318	15	145	223	7.3	1.9	1.5	.2	.2
419	60,650	296	139	34	1	6.7	2.4	1.7	.1	.6
313	23,910	482	20	28	-	8.3	2.5	1.9	.1	.5
113	27,755	356	202	24	149	9.2	1.6	1.1	.2	.3
423	4,245	497	78	-	-	-	1.1	1.0	.1	-
234	20,145	426	34	96	55	7.6	3.3	2.4	.2	.7
330	16,415	409	11	62	-	7.9	5.1	3.7	.6	.8
230	7,700	367	130	73	-	7.3	3.3	2.6	.5	.2
225	22,620	575	40	38	-	2.1	2.9	2.1	.3	.5
Ave.	36,199	327	71	53	27	7.1	1.6	1.1	.2	.3

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	Total					
217	\$ 4.00	\$ 1.89	\$.29	\$.03	\$.07	\$.04	\$.04	\$ 6.36	\$ 6.87	\$ 1.16	\$ 8.03	\$ 1.67	\$ 1.51
122	4.95	1.24	.66	.25	.05	.05	.13	7.33	7.83	.35	8.18	.85	1.43
130	2.32	1.53	.24	.17	.07	.05	-	4.38	5.78	-.88	4.90	.52	1.07
116	5.02	1.88	.28	.25	.05	.03	.12	7.63	7.55	-.11	7.44	-.19	.72
423	4.47	1.82	.37	.23	.05	.10	.05	7.09	6.90	-.05	6.85	-.24	.69
230	3.48	1.90	.24	.14	.05	.01	-	5.82	5.87	-.39	5.48	-.34	.66
219	5.06	1.33	.30	.08	.11	-	.02	6.90	7.06	-.82	6.24	-.66	.40
314	2.85	.49	.42	.06	.05	.03	-	3.90	3.60	-.52	3.08	-.82	none
123	5.05	2.27	.30	.18	.11	.05	-	7.96	6.75	.18	6.93	-1.03	.44
223	2.54	1.44	.45	.17	.03	.06	.23	4.92	4.20	-.31	3.89	-1.03	.22
222	6.69	1.30	.58	.15	.04	.19	.09	9.04	7.43	.40	7.83	-1.21	.06
317	5.66	1.20	.07	.27	.07	.07	.14	7.48	5.55	.71	6.26	-1.22	none
519	8.57	1.63	.42	.19	.14	.17	.15	11.27	5.34	4.48	9.82	-1.45	.09
224	2.87	.89	.28	-	.03	-	-	4.07	2.92	-.41	2.51	-1.56	none
119	7.07	1.56	.95	-	.09	.07	.24	9.98	7.80	.38	8.18	-1.80	none
125	11.22	1.25	-	.59	.03	.21	1.27	14.57	4.67	8.05	12.72	-1.85	none
133	3.06	1.48	.07	.17	.05	.07	-	4.90	3.18	-.50	2.68	-2.22	none
225	2.99	1.40	.10	.06	.05	.03	.01	4.64	3.23	-.92	2.31	-2.33	none
419	2.19	1.28	.19	.03	.11	.04	.02	3.86	2.13	-1.35	.78	-3.08	none
214	5.96	1.68	.43	.03	.09	.01	.16	8.36	4.58	.44	5.02	-3.34	none
129	5.61	2.44	1.12	-	.03	.15	-	9.35	6.46	-.54	5.92	-3.43	none
523	5.83	1.79	1.52	.47	.04	.17	.06	9.88	5.89	.04	5.93	-3.95	none
213	3.49	1.89	.49	-	.04	.04	-	5.95	2.12	-.55	1.57	-4.38	none
Ave.	4.97	1.46	.41	.18	.06	.07	.16	7.31	5.55	.56	6.11	-1.20	.14

Factors of Costs and Returns for Chickens - per Hen

Farm No.	No. Hens	No. Eggs Prod.	Lbs. Meat Prod.	Feeds Fed, Lbs.			Labor Hours				
				Grain	Comm. Feeds	Skim Milk	Total	Feed-Water	Clean	Handle Eggs	Misc.
217	166	217	6.3	105	35	-	2.4	1.63	.28	.43	.06
122	492	249	3.1	106	36	-	1.5	.63	.16	.54	.17
130	207	189	-1.0	63	15	-	1.9	.77	.14	.97	.02
116	286	245	4.7	108	34	-	2.3	1.17	.07	1.00	.06
423	297	222	3.8	90	44	-	2.3	.78	.24	1.18	.10
230	166	187	.7	59	40	-	2.4	.84	.51	1.02	.03
219	163	236	5.6	40	89	40	1.7	.60	.10	.95	.05
314	305	127	.9	44	39	-	.6	.31	.06	.19	.04
123	118	200	5.3	96	45	-	2.8	1.54	.16	.48	.62
223	291	134	2.1	58	21	-	1.8	.88	.15	.68	.09
222	337	250	5.1	42	126	-	1.6	.86	.18	.48	.08
317	198	211	7.3	142	39	-	1.5	.75	.02	.54	.19
519	155	179	13.6	116	78	-	2.0	1.06	.18	.54	.22
224	138	110	-1.6	81	18	-	1.1	.55	-	.55	-
119	154	244	5.5	125	75	-	1.9	.78	.10	.73	.29
125	335	161	31.4	159	158	-	1.6	.70	.05	.46	.39
133	153	123	4.2	52	12	-	1.8	.87	.19	.63	.11
225	404	109	.1	89	13	-	1.8	.78	.05	.93	.04
419	103	95	.9	32	29	-	1.6	.75	.09	.68	.08
214	304	166	7.0	95	74	-	2.1	1.00	.11	.98	.01
129	58	244	-.2	203	12	60	3.0	1.59	.06	1.31	.04
523	209	190	5.8	111	57	-	2.2	1.20	.13	.84	.03
213	79	82	.4	125	17	-	2.4	1.14	.08	1.10	.08
Ave.	222	185	5.5	90	53	2	1.8	.85	.12	.71	.12

Cost per Hour of Operating Tractors

Farm No.	Depre- cia- tion	Inter- est @ 5%	Shelt- er	Fuel	Oil and Grease	Repair and Maint.	Serv- icing	Cost per Hour	Hours Used
<u>Group I 7 - 14 Rated D.H.P.</u>									
233	\$ -	\$ -	\$.04	\$.13	\$.07	\$ *	\$.03	\$.27	353
240	.23	.09	-	.33	-	.03	.04	.72	989
432	.84	.35	-	.29	-	.01	-	1.49	180
<hr/>									
Ave.	.25	.10	.01	.28	.02	.02	.03	.71	507
<hr/>									
<u>Group II 15 - 20 Rated D.H.P.</u>									
440	-	-	-	.19	-	.10	.03	.32	383
423	-	-	.02	.23	-	.08	.03	.36	510
629	-	-	-	.35	.02	.06	.02	.45	308
333	-	-	.03	.40	.03	.02	*	.48	235
240	-	-	.02	.38	-	.06	.04	.50	507
<hr/>									
232	-	-	.07	.30	-	.14	.02	.53	153
729	.15	.04	-	.23	.03	.06	.03	.54	409
340	.16	.03	.03	.24	.06	.02	.02	.56	785
533	.12	.07	.01	.27	.02	.04	.03	.56	1065
629	.19	.05	.02	.20	.02	.09	.02	.59	513
<hr/>									
235	.24	.10	.01	.20	-	.03	.02	.60	873
226	.13	.01	.01	.31	-	.11	.05	.62	562
327	.20	.08	.02	.19	.03	.08	.02	.62	549
243	.14	.04	-	.30	.03	.09	.03	.63	839
427	.10	.05	-	.23	.05	.15	.05	.63	1098
<hr/>									
240	.29	.07	-	.19	-	.06	.05	.66	455
229	.20	.05	.01	.20	.02	.20	*	.68	738
332	.26	.13	-	.20	.04	.01	.05	.69	492
424	.18	.10	-	.31	.05	.03	.02	.69	543
329	.24	*	.01	.29	.04	.12	.02	.72	439
<hr/>									
233	.22	.02	.05	.39	.07	.02	.03	.80	453
529	.35	.11	.01	.20	.02	.10	.02	.81	501
423	.40	.19	.04	.13	-	.04	.03	.83	425
533	.04	.08	.08	.29	.03	.26	.06	.84	76
440	.34	.13	-	.34	-	.03	.02	.86	461
<hr/>									
226	.16	.06	.02	.35	-	.24	.05	.88	688
729	.20	.03	.01	.29	.03	.29	.04	.89	611
335	.10	.04	-	.46	.01	.30	.01	.92	596
233	.12	.01	.12	.54	.07	.01	.06	.93	127
324	.14	.03	.08	.30	.05	.30	.05	.95	87

* less than 1/2 of 1 cent

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

Farm No.	Depreciation	Interest @ 5%	Shelter	Fuel	Oil and Grease	Repair and Maint.	Servicing	Cost per Hour	Hours Used
<u>Group II 15 - 20 Rated D.H.P. (cont'd.)</u>									
323	\$.27	\$.09	\$ -	\$.51	\$ -	\$.10	\$.03	\$1.00	975
432	.17	.10	.05	.29	-	.41	-	1.02	374
633	.38	.11	.01	.26	.04	.24	.02	1.06	479
344	.38	.18	*	.40	.05	.05	-	1.06	524
323	.11	.02	-	.30	-	.63	.04	1.10	605
334	.12	*	.05	.35	.08	.48	.04	1.12	504
529	.28	.03	-	.41	.01	.41	.02	1.16	430
232	.33	.11	.03	.20	-	.56	.02	1.25	307
232	.50	.22	.03	.30	-	.25	.02	1.32	300
333	.56	.18	.08	.40	.03	.18	*	1.43	406
324	.56	.15	.02	.40	.05	.28	.05	1.51	288
633	.30	.05	.01	.48	.04	.76	.04	1.68	473
424	.41	.15	.07	.32	.05	.61	.11	1.72	118
335	.93	.41	-	.23	.20	.72	*	2.49	134
340	1.15	.34	.14	.24	.14	2.35	.10	4.46	76
Ave.	.21	.07	.02	.30	.02	.18	.03	.83	477

<u>Group III 22 - 27 Rated D.H.P.</u>									
235	.17	.02	.02	.39	-	.13	.02	.75	907
223	.30	.07	-	.26	.02	.09	.02	.76	673
327	.42	.11	-	.39	.03	.06	.01	1.02	429
323	.09	.02	-	.51	-	.38	.03	1.03	878
332	.04	-	-	.45	.04	.56	.06	1.15	240
529	.28	.03	-	.41	.01	.41	.02	1.16	430
629	.50	.22	.02	.35	.02	.08	*	1.19	664
344	.24	.09	.01	.53	.05	.29	*	1.21	628
334	.48	.18	.05	.71	.08	.30	.05	1.85	446
432	.26	.11	.09	.59	-	1.00	-	2.05	433
Ave.	.27	.09	.02	.45	.02	.25	.02	1.12	609

<u>Group IV 30 - 32 Rated D.H.P.</u>									
327	.32	.08	.02	.38	.03	.03	.02	.88	759
239	.21	.08	-	.81	.05	.28	.05	1.48	632
Ave.	.27	.08	.01	.58	.04	.14	.03	1.15	695

* less than 1/2 of 1 cent

Cost of Operating Tillage Machinery

Farm No.	Original cost	Depreciation	Interest	Shelter	Repair and Upkeep	Servicing	Total cost	Acres of Use*	Cost per Acre
324	\$ -	\$ -	\$ -	\$ -	\$ 9	\$ 5	\$ 14	74	\$.19
432	2000	130	68	23	99	14	334	98	.34
243	262	29	5	1	26	22	83	140	.59
529	390	30	13	3	59	39	144	220	.65
235	642	41	26	8	57	32	164	211	.78
329	319	25	5	3	10	2	45	53	.85
335	417	41	11	12	49	6	119	135	.88
323	1304	97	45	9	107	81	339	366	.93
229	259	35	7	10	5	11	68	68	1.00
327	1774	99	66	16	24	16	221	212	1.04
226	570	47	7	1	24	83	162	153	1.06
533	190	17	7	14	7	13	58	54	1.07
333	298	36	8	13	10	31	98	85	1.15
239	317	32	12	-	83	18	145	123	1.19
232	469	33	15	4	10	15	77	61	1.26
427	543	26	15	-	37	40	118	88	1.34
729	603	60	18	6	34	16	134	97	1.38
334	562	77	15	18	66	26	202	138	1.46
344	1277	82	39	30	23	7	181	110	1.64
223	592	71	18	9	5	12	115	66	1.74
233	491	45	16	25	6	37	129	73	1.77
633	1350	136	54	10	68	16	284	159	1.79
332	956	61	25	9	12	21	128	63	2.02
340	643	41	8	39	-	7	95	47	2.03
423	407	27	10	22	36	48	143	69	2.07
240	1468	93	52	39	39	28	251	120	2.09
440	439	44	13	17	18	36	128	59	2.17
424	537	55	19	13	13	13	113	46	2.46
629	4464	401	165	42	117	85	810	192	4.22
Ave.	812	66	26	14	36	27	169	116	1.45

* 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
323	\$ 350	\$ 35	\$ 7	\$ 3	\$ 9	\$ 64	\$ 118	557	\$.21
332	40	2	-	-	16	19	37	166	.22
232	175	15	7	2	5	-	29	111	.26
633	568	51	24	4	17	6	102	356	.29
324	172	18	7	8	5	3	41	126	.32
327	1088	64	37	10	-	2	113	337	.34
629	654	40	14	6	39	18	117	314	.37
529	730	74	22	5	2	34	137	356	.38
329	181	20	4	2	10	4	40	92	.43
729	332	34	10	3	22	12	81	188	.43
333	415	20	10	18	2	12	62	144	.43
340	100	8	3	6	1	15	33	70	.47
427	163	23	3	-	22	16	64	135	.47
243	368	35	11	2	6	16	70	136	.51
235	625	59	18	8	63	25	173	309	.56
239	215	22	8	-	-	84	114	168	.68
229	240	30	9	10	19	10	78	109	.72
334	375	37	16	12	66	6	137	186	.74
424	390	39	11	9	12	11	82	110	.74
440	359	35	12	14	-	22	83	108	.77
223	438	32	12	7	10	10	71	92	.77
335	370	74	13	10	-	8	105	134	.78
233	674	63	24	34	-	19	140	168	.83
344	688	31	21	16	155	5	228	269	.85
423	275	43	10	15	31	40	139	148	.94
432	2817	160	-	33	36	5	234	210	1.11
240	1850	135	59	49	9	23	275	229	1.20
226	981	93	38	7	27	160	325	190	1.71
533	660	61	21	49	89	19	239	99	2.41
Ave.	562	47	15	12	23	23	120	194	.62

* 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
232	\$ 40	\$ 2	\$ -	\$ 1	\$ -	\$ 3	\$ 6	39	\$.15
334	-	-	-	-	13	2	15	76	.20
440	-	-	-	-	3	4	7	31	.22
240	120	12	2	3	2	4	23	80	.29
323	360	24	8	3	6	8	49	153	.32
333	30	-	-	1	-	12	13	40	.32
243	100	20	1	1	7	-	29	89	.33
529	227	15	9	1	-	12	37	104	.36
329	65	8	2	-	2	-	12	32	.38
233	140	6	4	7	-	-	17	44	.39
327	325	16	13	3	-	3	35	87	.40
423	83	8	1	4	2	-	15	37	.40
335	200	40	9	6	-	3	58	112	.52
226	50	-	-	4	-	24	28	53	.53
344	261	20	9	6	-	-	35	63	.56
729	175	7	5	2	2	-	16	28	.57
332	80	5	1	1	1	8	16	24	.67
633	300	30	9	2	1	-	42	62	.68
424	140	14	3	3	-	4	24	33	.73
432	307	31	9	3	6	4	53	69	.77
235	650	40	32	8	15	8	103	129	.80
223	240	24	6	4	1	4	39	48	.81
324	185	18	3	9	9	-	39	47	.83
427	265	26	9	-	4	4	43	42	1.02
Ave.	197	15	6	3	3	5	32	63	.50

* refers to all row crops

Notes:

Cost of Operating Grain Drill and Other Grain Seeding Equipment

Farm No.	Original Cost	Depreciation	Inter-est	Shel-ter	Repair and Upkeep	Serv-icing	Total Cost	Acres Used*	Cost per Acre
323	\$334	\$ 24	\$ -	\$ 2	\$ 9	\$ 8	\$ 43	213	\$.20
529	100	12	2	1	1	8	24	116	.21
240	75	5	-	2	-	4	11	41	.27
226	310	22	9	2	-	8	41	99	.41
332	271	9	-	2	-	8	19	40	.48
327	664	52	-	6	-	4	62	123	.50
229	110	10	-	4	-	-	14	28	.50
423	-	-	-	-	-	16	16	31	.52
440	128	13	-	5	-	-	18	32	.56
334	525	20	-	17	-	2	39	62	.63
232	240	12	-	2	-	4	18	27	.67
633	559	59	24	4	1	-	88	97	.91
432	275	27	-	3	5	-	35	30	1.17
729	637	42	26	6	4	5	83	69	1.20
329	125	25	-	1	-	-	26	21	1.24
340	185	10	5	11	-	-	26	20	1.30
629	508	43	20	4	-	12	79	58	1.36
427	489	49	21	-	10	4	84	46	1.83
223	300	30	-	5	1	-	36	18	2.00
333	750	75	-	33	-	4	112	45	2.49
233	535	52	17	27	41	5	142	29	4.89
Ave.	356	28	6	7	3	5	49	59	.82

* refers to acres in small grains and peas

Notes

Cost of Operating Corn Cultivators

Farm No.	Original cost	Depreciation	Interest	Shelter	Repair and Upkeep	Servicing	Total cost	Acres over*	Cost per Acre
335	\$135	\$ 14	\$ 4	\$ 3	\$ -	\$ 3	\$ 24	246	\$.10
240	180	13	7	5	4	4	33	311	.11
432	165	20	5	2	1	4	32	236	.14
235	150	15	2	2	20	8	47	334	.14
243	200	20	5	1	-	-	26	177	.15
533	-	-	-	-	3	8	11	64	.17
229	122	15	2	5	-	-	22	121	.18
324	195	20	6	9	-	-	35	188	.19
327	535	34	11	5	-	3	53	262	.20
344	171	17	6	4	-	-	27	128	.21
334	-	17	-	18	14	2	51	227	.22
529	663	45	29	4	-	20	98	414	.24
232	175	17	9	2	-	5	33	101	.33
239	300	30	11	-	10	13	64	187	.34
729	200	10	6	2	-	10	28	79	.35
427	150	15	4	-	10	4	33	84	.39
223	200	20	10	3	1	4	38	96	.40
226	180	18	7	-	-	40	65	158	.41
333	224	22	8	10	3	22	65	150	.43
633	386	39	14	3	24	11	91	187	.49
629	713	71	32	7	21	4	135	270	.50
340	175	18	4	11	4	12	49	92	.53
423	135	-	-	7	-	57	64	120	.53
424	125	25	7	3	6	8	49	58	.84
323	316	27	4	2	-	8	41	458	.90
332	187	14	6	2	15	11	48	47	1.02
Ave.	249	22	8	4	5	10	49	184	.26

* acres on which used X "times over"

Notes:

Cost of Operating Fertilizer Equipment

Farm No.	Original Cost	Depreciation	Interest	Shelter	Repair and Upkeep	Total Cost
235	\$205	\$ 18	\$ 8	\$ 2	\$ -	\$ 28
324	170	17	5	8	-	30
333*	145	15	4	7	1	27
323	208	21	8	2	-	31
332	48	6	1	1	-	8
440*	115	14	5	-	-	19
240	204	14	10	5	-	29
243	91	19	2	1	-	22
344	170	16	4	4	-	24
729	150	10	4	2	-	16
633*	90	9	4	1	-	14
424	185	18	7	4	-	29
226	163	13	3	1	-	17
629	250	25	8	3	-	36
529	77	7	2	1	-	10
427*	44	11	1	-	10	22
Ave.	145	15	5	2	1	23

* attachment for corn cultivator

Cost of Operating Crop Sprayers

Farm No.	Original Cost	Depreciation	Interest	Shelter	Repair and Upkeep	Total Cost
235	\$400	\$ 40	\$ 12	\$ 5	\$ 24	\$ 81
232	178	18	5	2	11	36
333	188	19	6	8	-	33
323	460	46	16	4	17	83
327	200	10	10	2	18	40
432	235	30	7	3	-	40
334	160	40	3	-	2	45
423	95	10	2	5	-	17
633	325	65	1	2	4	72
226	200	40	2	2	-	44
533	99	10	4	7	-	21
529	102	10	4	1	46	61
Ave.	207	28	6	4	10	48

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
329	\$ 80	\$ 8	\$ 1	\$ 1	\$ -	\$ -	\$ 10	30	\$.33
239	-	-	-	-	-	35	35	85	.41
633	495	41	19	4	13	7	84	200	.42
334	162	23	7	5	11	7	53	100	.53
333	75	-	-	3	4	32	39	63	.62
427	-	-	-	-	10	23	33	47	.70
233	175	8	4	9	7	21	49	70	.70
432	326	25	12	4	-	16	57	76	.75
232	364	29	16	3	34	11	93	122	.76
344	585	49	21	14	38	-	122	143	.85
332	339	35	15	4	13	29	96	81	1.19
327	276	20	9	2	1	3	35	32	1.09
323	370	31	8	3	7	74	123	111	1.11
424	400	30	15	9	7	25	86	73	1.18
529	312	23	13	2	6	45	89	68	1.31
629	205	20	5	2	42	20	89	66	1.35
226	363	36	7	3	10	36	92	64	1.44
729	685	54	27	7	22	25	135	91	1.48
240	566	43	25	14	8	35	125	83	1.51
235	468	36	20	6	15	48	125	79	1.58
340	350	26	10	21	9	8	74	43	1.72
423	410	40	5	23	3	65	136	77	1.77
533	239	23	10	18	24	24	99	49	2.02
229	362	56	11	14	10	13	104	42	2.48
440	506	50	21	20	10	49	150	49	3.06
223	395	60	10	6	4	14	94	30	3.13
324	405	40	8	19	35	8	110	35	3.14
Ave.	359	30	11	8	13	25	87	74	1.16

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

Notes:

- 33 -
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	\$ -	\$ -	\$ 2	\$ 5	\$ -	\$ 4	\$ 11	45	-	\$.24
633	375	47	3	3	5	-	10	68	97	-	.70
729	200	10	2	2	13	-	4	31	43	-	.72
423	115	-	-	7	1	-	18	26	32	-	.81
329	40	5	-	1	9	-	3	18	21	-	.86
533	150	15	6	11	51	-	8	91	33	-	2.76
Ave.	153	13	2	4	16	-	9	44	45	-	.98

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	\$ 2	\$ 5	\$ -	\$ -	\$ 28	\$ 48	45	-	\$1.07
633	880	88	13	6	1	-	6	114	97	-	1.18
332	166	22	2	2	-	-	14	40	33	-	1.21
729	1400	70	28	14	-	-	11	123	43	40	1.48
240	450	30	21	12	9	-	31	103	41	-	2.51
423	536	50	1	30	-	-	32	113	32	-	3.53
Ave.	593	46	11	11	2	-	20	90	48	7	1.64

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	
327	\$1855	\$ 121	\$ 73	\$ 17	\$ 15	\$ -	\$ 21	\$ 247	126	-	\$ 1.96
233	682	64	6	35	33	-	26	164	81	-	2.02
340	945	78	44	57	22	-	25	226	44	15	3.83
533	3000	300	77	224	123	80	77	881	46	165	4.18
440	1945	194	78	76	4	-	-	352	53	20	4.82
240	2560	256	103	68	193	46	30	696	134	-	5.19
432	3411	427	149	40	22	27	13	678	90	-	7.53
223	456	75	4	7	2	-	-	88	10	-	8.80
229	362	70	14	14	-	4	-	102	10	-	10.20
629	2350	235	71	22	91	18	44	481	30	15	10.69
344	263	26	9	6	17	-	7	65	6	-	10.83
226	1193	240	53	9	60	52	53	467	32	6	12.29
729	1596	160	68	16	-	-	-	244	10	9	12.84
Ave.	1586	173	58	45	45	17	23	361	51	18	5.20

* 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	
243	\$ 25	\$ 5	\$ 1	\$ -	\$ -	\$ -	\$ -	\$ 6	51	-	\$.12
335	435	43	16	-	-	-	8	67	-	300	.22
323	358	-	-	3	30	-	8	41	172	-	.24
226	35	3	-	-	-	-	8	11	32	-	.34
529	250	25	10	2	4	-	12	53	112	-	.47
233	175	9	3	9	-	-	9	30	29	22	.59
334	-	6	-	-	10	-	3	19	22	-	.86
327	600	30	25	5	2	-	4	66	68	-	.97
340	540	54	26	33	-	-	11	124	20	80	1.24
629	720	72	30	7	-	-	20	129	58	-	2.22
Ave.	349	25	11	6	5	-	8	55	56	40	.56

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	
combines, 4'-6'											
327	\$1222	\$ 82	\$ 53	\$ 11	\$ 11	\$ -	\$ 6	\$163	123	-	\$1.32
233	120	20	3	6	41	-	20	90	33	30	1.43
243	350	29	10	2	43	-	-	84	51	-	1.65
226	1100	110	19	8	64	45	29	275	99	-	2.78
529	2000	200	80	12	44	15	43	394	112	-	3.52
334	1300	130	39	41	33	-	7	250	62	-	4.03
232	1714	160	56	16	27	-	17	276	27	40	4.12
Ave.	1115	104	37	14	38	8	18	219	72	10	2.66
combines, 12'											
432	\$1520	\$180	\$ 70	\$ 18	\$ -	\$ 25	\$ 4	\$297	30	180	\$1.41
629	1707	170	2	16	14	17	24	243	58	35	2.61
323	3098	310	139	23	141	38	74	725	213	-	3.40
427	1125	150	49	-	5	9	6	219	46	-	4.76
Ave.	1863	202	66	14	40	22	27	371	87	54	2.64

* 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>										
335	\$596	\$119	\$ 27	\$ 16	\$ 55	\$ 4	\$221	111	-	\$1.99
240	788	97	15	21	5	14	152	64	-	2.38
344	625	80	29	15	-	6	130	51	-	2.55
233	892	90	32	46	14	19	201	44	25	2.91
633	775	155	35	5	4	15	214	62	-	3.45
533	350	35	4	26	-	7	72	20	-	3.60
226	810	81	30	1	6	29	147	37	-	3.97
424	530	53	7	12	2	14	88	19	-	4.63
440	786	79	31	31	-	29	170	27	-	6.30
729	840	84	23	9	29	21	166	18	-	9.22
Ave.	699	87	23	18	12	16	156	46	2	3.26

<u>Two-row pickers</u>										
629	\$650	\$ 5	\$ -	\$ 6	\$ 77	\$ 9	\$ 97	105	-	\$.92
223	1590	160	72	25	8	5	270	36	130	1.63
327	1235	82	54	11	-	3	150	87	-	1.72
334	625	62	28	20	57	8	175	76	-	2.30
235	1200	250	-	15	-	32	297	129	-	2.30
529	1400	140	52	9	2	34	237	99	-	2.39
323	820	-	-	6	357	63	426	158	-	2.70
432	976	160	17	11	-	8	196	69	-	2.84
Ave.	1062	107	28	13	63	20	231	94	16	2.09

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	
344	\$2320	\$232	\$ 75	\$ 55	\$ 14	\$ 7	\$383	159	40	\$1.92
529	1380	138	43	9	-	57	247	141	-	1.75

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

- 36 -
Cost of Operating Portable Elevators

Farm No.	Original Cost	Depreciation	Interest	Shelter	Repair and Upkeep	Total Cost	Acres Used*	Cost per Acre
323	\$405	\$ 27	\$ 3	\$ 3	\$ -	\$ 33	303	\$.11
226	225	22	4	2	-	28	128	.22
329	60	6	3	1	1	11	45	.24
235	500	25	20	6	-	51	211	.24
440	120	12	1	4	-	17	55	.31
432	336	22	8	4	-	34	99	.34
327	467	30	22	4	19	75	210	.36
529	686	57	23	4	-	84	192	.44
232	175	17	9	2	-	28	61	.46
633	615	62	26	5	2	95	159	.60
240	470	35	15	14	-	64	104	.62
334	840	42	34	27	-	103	138	.75
335	612	61	1	17	32	111	134	.83
427	542	54	17	-	3	74	88	.84
629	558	55	25	5	53	138	162	.85
233	363	30	16	18	-	64	73	.88
223	325	40	6	4	-	50	54	.92
344	597	60	21	14	-	95	98	.97
229	277	30	6	11	10	57	56	1.02
340	270	18	11	16	-	45	20	2.25
Ave.	422	35	14	8	6	63	120	.52

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

Notes:

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
\$ 55	\$ 10	\$ 3	\$ 1	\$ -	\$ 14	335	\$	\$	\$	\$	\$	\$
340	34	12	-	-	46	427						
225	22	2	11	21	56	324						
455	46	14	3	7	70	323						
373	37	12	2	-	51	529	280	28	8	2	3	41
400	20	17	5	-	42	235	402	20	19	5	-	44
330	50	15	13	2	80	229	108	15	2	4	-	21
342	34	10	5	4	53	223	275	28	6	5	6	45
447	30	18	4	-	52	629	276	27	5	2	4	38
260	26	7	1	-	34	243	125	12	4	1	8	25
400	40	14	-	5	59	334	192	20	8	6	4	38
389	50	17	4	30	101	432	316	63	12	4	-	79
210	14	3	2	-	19	327	175	17	7	1	-	25
125	12	2	5	-	19	440	275	28	12	11	-	51
540	45	11	14	11	81	240	240	24	7	7	-	38
442	22	18	11	-	51	424	365	36	10	9	-	55
345	23	13	21	-	57	340	191	20	5	11	11	47
185	10	6	9	-	25	233	200	40	9	10	-	59
300	37	7	3	-	47	729	360	20	12	4	-	36
150	15	3	11	2	31	533	152	15	2	11	-	28
526	52	26	5	-	83	232	200	20	8	2	41	71
-	-	-	-	-	-	423	485	50	23	27	-	100
200	15	9	2	9	35	329						
485	48	21	3	1	73	633						
452	45	14	11	-	70	344						
165	14	1	2	-	17	332						
125	25	-	2	28	55	226						
265	20	6	12	36	74	333						
317	30	10	6	6	52	Ave.	256	27	9	7	4	47

Summary of Machinery Costs and Custom Work Hired

Farm No.	Tillage Mach.	Fert. Equip.	Grain Seed- ing Equip.	Corn Plant- er	Corn Cult.	Crop Spray- er	Mower and Rake	Field Chop- per & Blower	Baler	Long Hay Equip.	Grain Binder
239	\$144	\$ -	\$ -	\$ -	\$ 64	\$ -	\$ 35	\$ -	\$ -	\$ -	\$ -
329	45	-	26	12	-	-	10	-	-	-	18
324	15	30	-	39	35	-	110	-	-	-	-
243	83	22	-	29	25	-	-	-	-	12	-
332	128	8	19	15	48	-	96	-	-	32	19
235	164	28	-	104	47	81	89	-	-	13	-
335	119	-	-	58	24	-	-	-	-	-	-
633	284	13	88	42	91	72	84	-	-	-	68
323	339	31	43	49	41	83	123	-	-	100	-
423	143	-	16	15	64	-	136	-	-	-	26
333	98	27	112	13	65	33	39	-	-	8	11
327	221	-	62	35	52	40	35	247	-	-	-
334	202	-	39	15	51	45	53	-	-	-	-
529	144	10	24	37	98	61	89	-	247	28	-
229	68	-	14	-	22	-	104	98	-	16	-
427	118	51	84	43	33	-	33	-	-	-	-
232	77	-	18	6	33	27	93	-	-	8	-
729	134	16	83	16	28	-	135	128	-	11	31
344	181	24	-	35	28	-	122	65	383	-	-
424	113	29	-	24	49	-	86	-	-	-	-
629	810	36	79	-	135	-	89	321	-	-	-
440	128	115	18	7	-	-	150	256	-	26	-
223	115	-	36	39	38	-	94	88	-	-	-
233	129	-	142	17	-	17	49	164	-	-	-
340	95	-	26	-	49	-	74	168	-	-	-
226	162	17	41	28	227	44	92	394	-	28	-
533	58	-	4	-	12	21	99	191	-	-	91
240	251	29	11	23	33	-	125	696	-	-	-
432	334	-	35	53	32	40	57	678	-	-	-
Ave.	169	17	35	26	49	19	79	121	22	10	9

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
\$ -	\$ -	\$ -	\$ -	\$ -	\$114	\$ -	\$357	144.3	\$2.48	\$542	\$3.76
-	-	-	17	11	40	35	214	67.8	3.15	266	3.92
-	-	-	-	-	41	56	326	91.4	3.57	756	8.27
-	6	84	154	-	70	69	554	139.8	3.96	405	2.90
40	-	-	-	-	37	17	459	115.4	3.98	638	5.53
-	-	-	298	51	173	86	1134	270.7	4.19	1046	3.86
-	-	-	222	111	105	14	653	134.8	4.85	184	1.37
114	-	-	214	95	101	73	1339	259.5	5.16	712	2.74
-	41	687	426	33	118	70	2184	417.1	5.24	523	1.25
113	-	-	-	-	139	99	751	141.9	5.29	608	4.28
48	-	-	-	-	62	74	590	108.2	5.45	123	1.14
-	66	162	150	75	113	44	1302	237.7	5.48	-	-
-	19	250	175	104	138	96	1187	185.1	6.42	296	1.60
-	53	394	236	84	137	92	1734	263.4	6.58	36	.14
-	-	-	-	57	78	101	558	84.1	6.64	282	3.35
-	-	219	-	75	64	46	766	114.0	6.72	65	.57
-	-	112	-	28	29	154	585	87.0	6.72	399	4.59
64	-	-	166	1	81	83	977	144.4	6.77	400	2.77
-	-	-	130	95	228	70	1361	190.5	7.14	244	1.28
-	-	-	88	-	82	105	576	73.1	7.88	572	7.82
-	129	151	97	138	117	90	2192	276.3	7.93	-	-
-	-	-	170	17	83	70	1040	128.9	8.07	116	.90
-	-	-	58	50	71	98	687	82.9	8.29	223	2.69
-	18	47	128	64	140	84	999	115.4	8.66	-	-
-	24	-	-	45	33	104	618	70.0	8.83	125	1.78
-	11	275	147	27	325	55	1873	181.1	10.34	-	-
-	-	-	72	-	239	59	846	80.6	10.50	40	.50
103	-	-	152	64	275	119	1881	165.9	11.34	-	-
-	-	39	196	34	234	181	1913	148.7	12.86	173	1.16
17	13	83	114	43	120	77	1023	155.9	6.56	303	1.94

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

** Refers to custom work hired by the farmer.

Source and Use of Labor by Type of Farm

Farm No.	Source of Labor				Total hours	Crops							Total crops
	Operator	Family	Hired	Exch. grat.		Grain	Corn	Soy-beans	Hay	Other crops	Haul man.	Fall work	
<u>Emphasis on Dairy Cattle</u>													
239	3756	61	105	500	4422	231	429	-	128	244	66	149	1247
324	2024	-	2538	9	4571	56	189	-	74	27	109	4	459
229	3330	687	148	179	4344	132	298	-	186	60	144	55	875
223	3271	8	-	164	3443	69	234	-	82	11	121	85	602
329	2967	16	203	215	3401	305	211	-	44	7	75	31	673
432	2376	1136	1532	4	5048	178	376	-	288	10	113	93	1058
327	2165	2659	41	-	4865	376	439	249	338	28	65	242	1737
440	1915	2948	-	21	4884	61	289	79	179	187	127	114	1036
240	3973	1670	3645	-	9288	384	920	-	396	76	259	233	2268
424	3430	366	679	43	4518	130	305	-	253	91	70	41	890
633	3036	126	3612	425	7199	623	476	-	376	52	387	97	2011
344	2475	3201	1874	6	7556	276	418	-	297	48	161	66	1266
340	3812	1351	134	159	5456	112	257	-	222	3	164	50	808
233	3825	972	193	199	5189	215	403	-	256	31	72	58	1035
729	3431	89	1941	103	5564	427	238	175	430	139	159	102	1670
533	3663	702	2030	748	7143	266	187	-	198	44	207	58	960
332	5981	10	1888	496	8375	312	228	-	339	78	136	108	1201
226	3750	130	3656	-	7536	391	390	-	228	100	109	132	1350
232	2794	882	747	217	4640	158	350	-	198	131	96	104	1037
333	3113	389	3031	-	6533	274	322	-	277	31	144	31	1079
423	1529	76	4074	56	5735	342	261	-	282	108	176	68	1237
Ave.	3172	832	1527	169	5700	253	344	24	241	72	141	91	1166
<u>Emphasis on Feeder Cattle or Hogs</u>													
335	2451	702	128	591	3872	141	781	-	68	152	36	30	1208
427	3261	8	63	231	3563	180	209	-	145	80	167	110	891
629	4126	113	483	269	4991	223	642	-	168	43	215	80	1371
529	3052	2577	1199	55	6883	459	668	-	294	191	301	103	2016
235	2940	44	2851	38	5873	164	520	137	298	54	149	282	1604
323	3152	1619	2681	48	7500	675	869	189	213	100	167	423	2636
243	2297	287	156	45	2785	200	429	-	-	-	4	104	737
334	2291	93	472	230	3086	83	386	171	150	44	79	198	1111
Ave.	2946	680	1004	189	4819	266	563	62	167	83	140	166	1447

- 41 -
Source and Use of Labor by Type of Farm (Cont'd.)

	Livestock					Total lvst.	Miscellaneous				
	Dairy cattle	Feeder cattle	Hogs	Chick- ens	Other Horses		Farm- stead	New bldgs.	Bldg. repair	Fences	Mach. & Equip.
<u>Emphasis on Dairy Cattle</u>											
1133	430	423	177	-	-	2163	86	-	51	47	119
2741	-	68	638	-	-	3447	94	234	21	15	30
1310	232	714	301	-	-	2557	110	133	107	142	54
1468	-	442	-	-	-	1910	84	-	52	170	94
1556	-	197	271	-	-	2024	103	-	34	18	16
2052	109	801	-	-	-	2962	118	508	22	80	124
1544	-	217	391	85	-	2237	55	349	57	22	115
1269	-	831	112	372	-	2584	132	41	68	168	260
3499	386	865	396	-	-	5146	124	-	642	160	489
1717	-	210	187	-	-	2114	90	13	67	26	111
2747	-	784	469	-	128	4128	77	35	95	103	160
4368	-	666	-	491	-	5525	64	-	167	124	80
2581	-	255	394	-	-	3230	37	187	50	66	116
1919	-	421	335	-	-	2675	152	18	314	130	240
2915	-	-	-	-	104	3019	46	-	93	55	136
2241	-	47	675	33	49	3045	128	616	188	122	302
1995	-	-	547	-	116	2658	66	2038	1250	101	189
2128	-	-	672	76	-	2876	128	174	170	63	661
1771	-	-	763	-	-	2534	138	-	104	32	119
2134	-	487	524	-	140	3285	81	-	717	74	252
1701	-	597	-	-	125	2423	119	-	113	196	526
2133	55	382	326	50	32	2978	97	207	209	91	200
<u>Emphasis on Feeder Cattle or Hogs</u>											
205	1	651	707	-	-	1564	48	59	120	42	84
-	371	842	298	-	-	1511	126	82	112	112	214
149	913	325	316	113	2	1818	240	85	166	142	415
261	883	1465	165	-	-	2774	252	52	410	299	508
967	40	695	525	180	1	2408	129	37	409	268	225
-	765	1024	186	399	133	2507	310	-	88	157	742
-	-	470	282	-	-	752	65	651	18	38	57
-	371	373	153	-	-	897	120	44	80	75	92
198	418	731	329	86	17	1779	161	126	175	142	292

- 42 -
 Source and Use of Labor by Type of Farm (Cont'd.)

Farm No.	Miscellaneous (Cont'd.)										
	Trac- tor repair	Truck, auto repair	Wood for fuel	Garden work	Farm Busi- ness	Farm meet- ings	Work for others		Public serv. work	Misc.	Total
<u>Emphasis on Dairy Cattle</u>											
239	35	24	-	9	208	27	400	-	-	6	1012
324	11	-	-	-	26	50	6	52	126	-	665
229	2	-	-	16	110	15	204	8	-	11	912
223	12	10	21	3	95	90	200	98	-	2	931
329	12	-	3	-	73	38	271	108	-	28	704
432	-	-	-	7	50	65	12	37	-	5	1028
327	34	9	-	6	158	40	-	-	-	46	891
440	19	62	65	76	105	143	117	-	-	8	1264
240	101	2	11	85	181	28	51	-	-	-	1874
424	25	5	1	96	203	95	12	751	-	19	1514
633	31	5	25	26	138	81	261	15	6	2	1060
344	5	6	8	8	37	103	98	53	12	-	765
340	17	1	-	-	8	66	584	86	192	8	1418
233	36	38	-	42	94	94	65	44	149	63	1479
729	34	10	135	70	71	36	141	-	-	48	875
533	39	22	35	122	187	43	675	609	-	50	3138
332	39	10	18	26	145	127	303	168	26	10	4516
226	67	45	4	96	600	365	148	298	169	322	3310
232	18	-	181	15	270	56	21	85	9	21	1069
333	3	-	590	47	232	29	144	-	-	-	2169
423	34	24	25	5	432	74	88	7	414	18	2075
Ave.	27	13	53	36	163	79	181	115	53	32	1556
<u>Emphasis on Feeder Cattle or Hogs</u>											
335	10	32	7	61	170	14	222	48	-	183	1100
427	38	42	27	21	90	72	225	-	-	-	1161
629	18	41	-	-	161	128	367	29	-	10	1802
529	33	1	44	28	228	30	126	42	-	40	2093
235	29	38	6	3	376	94	136	4	27	80	1861
323	102	11	178	130	490	78	25	-	-	46	2357
243	28	9	-	4	108	194	52	58	-	14	1296
334	39	14	-	12	182	206	178	-	36	-	1078
Ave.	37	24	33	32	226	102	166	23	8	46	1593

Use of Tractor Hours by Enterprise

Farm No.	Crops							Livestock						Total Hours		
	Grain	Corn	Soy-beans	Hay	Other Crops	Haul Manure	Fall Work	Total	Dairy Cattle	Feeder Cattle	Hogs	Chick-ens	Other		Total	Misc.
<u>Emphasis on Dairy Cattle</u>																
239	160	347	-	76	38	59	149	829	15	36	29	5	-	85	36	950
324	40	167	-	49	16	82	4	358	5	-	7	-	-	12	8	378
229	68	251	-	111	9	125	62	626	26	7	52	1	-	86	37	749
223	53	233	-	36	8	117	84	531	8	-	35	-	-	43	92	666
329	204	194	-	40	7	39	29	513	12	-	2	-	-	14	11	538
432	119	337	-	154	2	88	92	792	66	2	64	-	-	132	68	992
327	376	438	242	339	22	58	236	1,711	11	-	4	4	-	19	6	1,736
440	35	253	68	154	91	83	112	796	19	-	29	-	2	50	45	891
240	291	663	-	311	5	249	218	1,737	70	1	102	2	-	175	42	1,954
424	100	237	-	144	22	61	41	605	30	4	-	*	-	34	19	658
633	224	347	-	166	8	7	96	848	41	-	32	1	-	74	9	931
344	166	340	-	184	32	126	64	912	73	-	30	-	33	136	36	1,084
340	74	230	-	182	3	120	49	658	62	-	6	-	-	68	19	745
233	180	308	-	288	8	94	55	933	44	-	35	1	-	80	68	1,081
729	266	192	100	175	14	50	101	898	74	-	-	-	-	74	57	1,029
533	117	160	-	155	10	35	62	539	3	-	-	5	1	9	137	685
332	208	142	-	161	25	19	105	660	9	-	-	3	-	12	39	711
226	312	321	-	152	14	75	127	1,001	26	-	-	6	-	32	145	1,178
232	111	163	-	86	77	85	93	615	20	-	-	18	-	38	64	717
333	148	174	-	82	12	9	31	456	44	-	16	9	-	69	52	577
423	152	155	-	248	2	101	67	725	23	-	24	-	-	47	56	828
Ave.	159	264	19	153	20	78	87	780	32	2	22	2	2	60	49	889
<u>Emphasis on Feeder Cattle or Hogs</u>																
335	87	571	-	22	75	9	30	794	1	-	13	8	-	22	78	894
427	151	190	-	76	30	183	108	738	-	137	165	9	-	311	134	1,183
629	164	625	-	118	11	195	80	1,193	12	90	14	8	2	126	126	1,445
529	339	558	-	175	48	180	100	1,400	1	27	29	1	-	58	123	1,581
235	140	480	125	162	33	106	269	1,315	13	4	216	38	2	273	216	1,804
323	462	718	161	134	49	122	399	2,045	-	150	64	2	1	217	181	2,443
243	185	423	-	-	64	4	40	716	-	-	16	-	-	16	151	883
334	55	316	115	114	10	61	196	867	-	26	9	-	-	35	72	974
Ave.	198	485	50	100	40	108	153	1,134	3	54	66	8	1	132	135	1,401

* Less than 1/2

Average Rates of Performance for Field Work

Machine Kind	Size	No. of Farms	Ave. per Acre		Man Hours per Acre		Ave. Man Hours 1951/52
			Man Hours	Power Hours	High	Low	
T. Disc.	7'-10'	17	.32	.32	.69	.21	.36
S. Disc.	10'-18'	12	.19	.19	.41	.13	.20
2 bottom plow		11	1.16	1.13	2.55	.99	1.14
3 bottom plow		10	.96	.95	2.33	.69	.99
Spring Tooth	7'-12'	16	.30	.30	1.06	.11	.32
Spike Tooth	16'-21'	29	.14	.14	.33	.06	.14
Grain Drill	7'-8'	9	.55	.49	1.00	.24	.48
Grain Drill	9'-11'	13	.36	.34	.91	.24	.33
Corn Planter:							
Drilling	2-row	16	.50	.49	.99	.30	.52
Drilling	4-row	2	.37	.37	.44	.33	.42
Checking	2-row	4	.87	.63	1.65	.52	.76
Corn Cultivator	2-row	23	.49	.48	.76	.32	.48
Corn Cultivator	4-row	2	.36	.36	.51	.29	.36*
Corn Picker	1-row	15	2.94	1.85	5.43	1.47	3.96
Corn Picker	2-row	6	1.62	1.46	2.03	1.10	1.58
Fill Silo with Field Chopper (corn)		14	7.17	5.50	12.25	4.36	6.26
Grain Binder	7'-10'	7	1.31	.70	2.29	.80	1.21
Swather	7'-12'	18	.56	.44	1.09	.23	.55
Combine and Haul	5'-6'	14	1.26	.90	1.76	.64	1.44
Combine and Haul	12'	3	1.25	.93	1.23	.95	1.32
Shock Grain		7	.92	-	1.61	.28	1.09
Threshing		8	3.22	1.62	9.27	1.22	3.32
Mower	5'-7'	24	.55	.52	1.33	.27	.52
Side Delivery Rake		26	.34	.34	.80	.21	.35
Bale Hay		10	1.62	.74	2.80	.61	2.34
Chop Hay		9	3.20	2.73	6.07	2.03	2.88
Chop Silage (Alf. mixt.)		10	4.60	3.22	13.50	2.69	4.60*
Haul long, loose hay		4	2.55	1.16	3.06	1.51	2.57

* 1952 only.

Seasonal Percentage Distribution of Labor - Average per Farm and Enterprise

	Source of Labor					Livestock					Crops	
	Total Labor	Operator	Family	Hired	Exch. Rec'd	Dairy Cattle	Feeder Cattle	Hogs	Chick-ens	Other ^{1/}	Small Grain	Corn
Jan.	6.8	7.5	6.3	6.2	1.9	10.6	13.5	9.0	8.5	-	-	-
Feb.	6.7	7.4	5.5	6.3	3.3	9.7	11.1	10.5	8.4	-	-	-
Mar.	7.1	7.7	5.4	7.1	2.5	10.4	12.5	12.2	8.1	-	.2	-
Apr.	8.4	8.7	8.0	8.2	4.9	9.3	10.8	10.0	10.0	-	25.1	2.2
May	9.4	9.4	10.8	9.4	3.5	7.7	7.2	8.4	10.0	-	7.9	28.3
June	9.8	8.9	10.4	10.8	14.3	6.6	6.0	6.5	8.4	-	1.1	16.4
July	10.3	9.6	11.8	10.5	15.4	6.9	5.1	6.7	7.6	-	34.4	7.0
Aug.	9.6	8.3	10.2	11.6	14.5	6.7	5.4	9.0	8.2	-	28.4	.1
Sept.	9.0	8.7	8.4	9.2	17.0	6.7	4.6	7.7	8.5	-	2.0	11.5
Oct.	9.3	9.0	10.3	8.4	16.9	7.4	2.2	6.1	7.7	-	.4	30.6
Nov.	7.1	7.8	7.1	5.9	4.4	7.8	9.8	6.6	7.3	-	.5	3.9
Dec.	6.5	7.0	5.8	6.4	1.4	10.2	11.8	7.3	7.3	-	-	-
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-	100.0	100.0
Hours*	5,458	3,310	790	1,383	175	1,599	156	478	327	88	257	404
No. of Farms	29	29	29	29	29	21	9	24	23	6	29	29

	Crops (cont'd)			Other Crop Work	Manure Haul- ing	Upkeep Farm- stead	Repair of		Wood, Gard- en	Farm Busi- ness ^{2/}	Work for Others	Misc- ellaneous	
	Soy-beans	Grass Leg.	Fall Work				Build- ings	Mach- inery					
Jan.	-	-	6.2	-	9.3	3.8	2.4	5.2	6.2	13.3	3.5	11.1	
Feb.	-	-	4.9	-	12.0	3.7	3.8	3.4	10.3	9.4	3.7	25.5	
Mar.	-	-	10.2	-	9.7	7.6	2.4	3.5	7.8	9.5	5.2	14.7	
Apr.	5.0	2.2	.3	10.7	-	12.8	8.4	5.8	7.9	9.9	5.8	5.1	3.4
May	35.1	28.3	.8	12.6	-	11.4	10.4	9.1	9.9	10.5	7.0	5.5	1.0
June	18.0	16.4	35.0	3.7	-	3.5	13.6	13.9	15.1	14.4	7.1	11.9	4.5
July	6.7	7.0	38.7	20.3	.2	3.5	11.9	8.2	15.4	6.2	6.0	13.9	1.0
Aug.	2.2	.1	14.6	7.4	12.2	10.1	9.5	17.7	10.2	4.1	7.7	13.4	-
Sept.	4.1	11.5	10.4	8.6	23.2	8.9	9.8	13.8	11.1	8.3	8.6	15.9	2.6
Oct.	28.9	30.6	.2	4.8	29.2	3.3	4.4	11.2	9.4	5.7	5.0	11.8	15.3
Nov.	-	3.9	-	9.6	34.2	5.0	13.5	7.2	4.8	4.4	9.9	5.4	12.0
Dec.	-	-	1.0	1.0	10.5	3.4	4.5	4.1	12.2	10.7	4.7	8.9	-
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	100.0
Hours*	35	221	74	112	141	114	489	271	83	266	307	36	
No. of Farms	6	28	29	29	29	29	29	29	29	29	29	29	29

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

* Total hours on all farms divided by total number of farms (29).

2/ Includes meetings, general business, auctions, etc.