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University of Minnesota
Department of Agriculture
and
United States Department of Agriculture
Bureau of Agricultural Economics
Cooperating

Farm Labor and Farm Costs, 1951.

by

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

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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, 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 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 1951

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 1951 mean annual precipitation ranged from 2 to 17 inches above normal in the area. The mean temperature was somewhat below normal during the growing season. A late spring and fairly early frost resulted in a considerable 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 cost for individual farms.

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

CROP SUMMARIES:

Seed was charged at cost. In the cases where seed was home grown the average 1951 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% to the field to which the manure was applied, and 60% 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 1951.

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

Prices used in determining value produced represent an average of 1951 prices received in the area.

LIVESTOCK SUMMARIES:

Feed costs include all feeds bought, home grown feeds at average 1951 farm prices and a charge for pasture ranging from \$.30 per head-month for hogs to \$1.50 per head-month for cows and feeder cattle.

Shelter costs were computed by taking two times the annual depreciation plus interest on investment. This figure was 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 is copied directly from the farmer's account book. No attempt is made to standardize depreciation schedules for similar machines except to the extent that this is done in the regular accounting work.

Acres over refers to the acres covered by a machine during the season.

Acres used refers to the number of crop acres on which the machine was used in the season.

SUMMARY OF FARM EARNINGS

Items	Average of 33 farms	Items	Average of 33 farms
Farm Receipts:		Farm Expenses:	
Dairy and dual purpose cows	982	Dairy and dual purpose cattle bought	166
Dairy products	4101	Other dairy and d. p. cattle bought	271
Other dairy and d. p. cattle	709	Beef cattle bought	3292
Beef cattle	4354	Hogs bought	240
Hogs	5821	Sheep bought	216
Sheep and wool	313	Poultry bought	152
Poultry	487	Horses bought	5
Eggs	1184	Miscellaneous livestock expense	378
Horses	6	Miscellaneous crop expense	1003
Corn	453	Feed bought	3248 ⁵
Small grain	967	Custom work hired	482
Other crops	575	Mech. power (new)	941
Mach. and equip. sold	383	Mech. power (upkeep)	224
Agricultural Adj. payments	69	Mech. power (gas, oil, etc.)	899
Income from work off farm	232	Crop and general mach. (new)	1287 ¹
Miscellaneous	85	Crop and general mach. (upkeep)	249
Total farm sales	20721	Livestock equip. (new)	131
Increase in farm capital	2921 3244	Livestock equip. (upkeep)	135
Family living from farm	812	Buildings and fences (new)	1250
Total receipts	24454 24777	Buildings and fences (upkeep)	315
Total expenses	16778	Hired labor	979
Income to family and capital	7676 7999	Board for hired labor	151
Interest on farm capital	2370	Taxes	543
Unpaid family labor	447	Overhead and insurance	230
Operator's labor earnings	<u>5182</u>	Total expenses	<u>16778</u>
	4859		

SUMMARY OF FARM INVENTORIES

	Average of 33 farms	
	Jan. 1	Dec. 31
Size of farm (acres)	231.5	
Dairy and dual purpose cows	\$1926	\$2181
Other dairy and dual purpose cattle	1215	1549
Beef cattle	2190	3270
Hogs	1685	1949
Sheep	197	288
Poultry	218	222
Horses	51	47
Crops, seed, feed	6215	5540
Mechanical power	3081	3350
Crop and general mach.	3415	4010
Livestock equip. and supplies	604	631
Miscellaneous	1	0
Buildings, fences, etc.	11064	11746
Land	14072	14072
Total farm capital	45934	48855

COSTS AND RETURNS PER ACRE FOR OATS

Pre-Harvest Costs

Harvest Costs

Farm No.	Pre-Harvest Costs							Harvest Costs						
	Man Labor	Power	Seed	Man- ure	Comm. Fert.	Mach- inery	Other	Total	Man- Labor	Power	Twine	Mach- inery	Other	Total
202	\$1.26	\$1.27	\$3.57	\$.18	\$.28	\$1.60	\$ -	\$8.14	\$2.71	\$1.72	\$ -	\$3.69	\$ -	\$8.12
102	.53	.58	3.75	-	-	1.65	.43	6.94	1.58	1.13	-	.63	1.74	5.08
123	.96	1.30	5.23	.42	-	2.01	-	9.92	4.52	2.05	-	3.56	-	10.13
211	2.06	1.90	4.07	2.59	.66	3.02	-	14.30	5.80	1.57	1.28	.79	-	9.44
106	.84	.99	3.33	.78	-	2.61	-	8.55	3.28	1.30	.84	.87	1.71	8.00
105	1.45	1.49	2.31	.94	-	1.49	-	7.68	2.43	1.69	-	3.57	-	7.69
312	.68	.94	3.55	.69	3.60	2.66	.59	22.71	1.97	1.48	-	2.12	-	5.57
121	1.09	1.09	3.94	1.27	-	2.18	-	9.55	3.17	2.35	-	4.89	-	10.41
212	1.50	1.76	4.05	4.22	3.32	4.48	.17	19.50	5.45	3.92	.86	.80	-	11.03
408	.97	1.05	4.05	.81	-	2.27	-	9.15	3.16	2.27	-	5.06	-	10.49
508	2.06	1.54	2.41	.29	.79	5.69	-	12.78	3.00	2.24	-	10.54	-	15.78
107	1.51	1.48	2.42	1.51	.68	2.95	-	10.55	4.93	2.15	.84	4.91	.23	13.06
108	1.55	1.14	3.42	3.68	.39	4.49	-	14.67	2.80	.98	-	.81	4.04	8.63
213	.99	1.24	3.60	1.52	1.70	4.27	-	13.32	1.63	1.41	-	3.04	-	6.08
223	2.24	2.56	2.87	3.43	1.97	2.95	-	16.02	3.90	1.85	.79	2.24	5.16	13.94
311	1.77	2.26	4.66	3.68	5.12	7.21	-	24.70	2.44	2.12	-	3.39	-	7.95
112	2.36	2.33	3.23	1.31	3.51	6.65	-	19.39	4.31	3.58	-	2.49	-	10.38
512	.98	1.14	2.43	3.23	.59	4.51	-	12.88	3.56	1.92	.74	3.92	-	10.14
306	1.45	1.10	3.23	2.60	2.94	4.08	-	15.40	2.69	1.71	-	4.84	-	9.24
208	1.24	1.50	3.32	3.26	.47	4.30	-	14.09	3.21	3.73	-	.47	4.14	11.55
103	2.50	2.50	6.09	3.13	3.18	3.55	-	20.95	5.00	2.14	1.00	8.04	-	16.18
114	.89	1.27	2.35	.64	1.59	1.93	-	8.67	1.90	1.42	-	.72	2.97	7.01
116	.71	.94	3.82	.83	-	2.69	-	9.00	1.96	2.22	-	3.31	-	7.50
206	1.28	1.73	3.00	.64	.19	1.83	-	8.67	2.50	2.61	-	1.59	-	6.70
308	1.73	1.52	2.91	.72	1.60	2.40	-	10.88	1.01	.51	-	3.21	-	4.73
118	1.70	2.39	2.97	1.56	3.35	1.76	-	13.73	2.09	1.29	-	1.10	-	4.48
219	1.58	1.37	2.88	3.92	.42	4.75	-	14.92	2.58	.88	-	3.75	-	7.21
412	1.93	1.58	2.38	2.88	8.14	5.37	-	22.28	6.49	4.03	.53	4.39	-	15.44
119	1.95	1.73	2.27	3.75	.68	5.05	-	15.43	4.39	2.59	.05	2.82	-	9.85
122*	.56	.42	2.78	.30	1.09	1.20	-	6.35	1.47	1.05	-	1.54	-	4.06
Av.	1.38	1.45	3.27	1.71	1.34	3.39	.04	12.58	3.14	2.01	.22	3.20	.62	9.19

*not included in the average, heavy hail damage

COSTS AND RETURNS PER ACRE FOR OATS - (CONT.)

Land Charge	Total Cost	Value of Crop	Net re- turn	Cost per bu.	Yield bu.	Bu. of seed	Hours				
							Pre-Harvest		Harvest		
							Man.	Tract.	Man.	Tract.	Horse
10.00	\$26.27	\$66.29	\$40.02	\$.32	81.8	2.1	1.6	1.6	3.4	2.2	-
10.00	22.02	44.37	22.35	.40	54.8	3.1	.7	.6	2.0	1.2	-
10.00	30.04	56.48	26.44	.43	69.7	1.9	1.2	1.2	5.6	1.9	-
10.00	33.74	54.33	20.59	.50	67.1	3.4	2.6	2.6	7.3	1.1	2.1
10.00	26.55	39.69	13.14	.54	49.0	2.8	1.1	1.1	4.1	1.4	-
10.00	25.37	35.89	10.52	.57	44.3	1.9	1.8	1.8	3.0	2.1	-
10.00	28.28	39.90	11.62	.57	49.3	3.0	.9	.9	2.5	1.4	-
10.00	29.96	42.54	12.58	.57	52.5	3.3	1.4	1.4	4.0	2.9	-
10.00	40.53	57.30	16.77	.57	70.8	3.4	1.9	1.7	6.8	3.7	.3
10.00	29.64	41.66	12.02	.58	51.0	3.4	1.2	1.1	3.9	2.4	-
10.00	38.56	52.34	13.78	.60	64.6	2.0	2.6	1.8	3.8	2.7	-
10.00	33.61	44.38	10.77	.61	54.8	2.0	1.9	1.9	6.2	1.4	3.0
10.00	33.32	42.08	8.76	.64	52.0	3.5	2.0	1.7	3.5	1.5	-
10.00	29.40	37.21	7.81	.64	45.9	3.0	1.3	1.0	2.0	1.2	-
10.00	39.96	49.45	9.49	.65	61.0	2.4	2.8	2.8	4.9	2.0	-
10.00	42.65	52.23	9.58	.66	64.5	3.9	2.2	2.2	3.0	2.0	-
10.00	39.77	48.69	8.92	.66	60.1	2.7	3.0	2.9	5.4	4.4	.5
10.00	33.02	40.35	7.33	.66	49.8	2.0	1.2	1.2	4.5	1.0	3.1
10.00	34.64	39.95	5.31	.70	49.3	2.5	1.8	1.7	3.4	2.6	-
10.00	35.64	40.51	4.87	.71	50.0	2.7	1.6	1.6	4.0	4.0	-
10.00	47.13	49.72	2.59	.77	61.4	2.9	3.1	3.1	6.3	2.1	2.2
10.00	25.68	26.87	1.19	.77	33.2	2.0	1.1	1.0	2.4	1.1	-
10.00	26.50	25.73	-.77	.83	31.7	2.7	.9	.9	2.5	2.0	-
10.00	25.37	20.45	-4.92	1.00	25.2	2.4	1.6	1.6	3.1	2.4	-
10.00	25.61	20.50	-5.11	1.01	25.3	2.4	2.1	2.1	1.2	.7	-
10.00	28.21	21.15	-7.06	1.08	26.1	3.3	2.1	1.9	2.6	1.1	-
10.00	32.13	23.63	-8.50	1.10	29.2	1.8	2.0	2.0	3.3	1.3	-
10.00	47.72	31.26	-16.46	1.24	38.6	2.0	2.4	2.4	8.1	4.1	1.3
10.00	35.28	18.50	-16.78	1.54	22.8	1.9	2.4	2.3	5.5	3.4	-
10.00	20.41	6.69	-13.72	2.46	8.3	2.3	.7	.6	1.8	1.6	-
10.00	31.77	39.27	7.50	^{.66} .72	48.5	^{2.6} 1.7	1.7	1.6	3.9	2.1	.4

COSTS AND RETURNS PER ACRE FOR BARLEY

Farm No.	Pre-Harvest Costs							Harvest Costs						
	Man Labor	Power	Seed	Man- ure	Comm- Fert.	Mach- inery	Other Costs	Total	Man Labor	Power	Twine	Mach- inery	Other Costs	Total
202	\$1.17	\$1.16	\$2.90	\$.17	\$3.15	\$1.61	-	\$10.16	\$2.09	\$1.71	\$-	\$2.14	\$-	\$5.94
308	1.15	.97	3.14	.79	1.10	2.38	-	9.53	1.60	.99	-	3.22	-	5.81
107	1.27	1.27	2.54	1.58	-	3.02	-	9.68	4.28	3.02	.63	.79	.32	9.04
105	1.70	1.71	2.87	1.17	2.05	1.48	-	10.98	2.52	2.11	-	3.57	-	8.20
111	2.40	2.24	3.16	.31	-	.71	-	8.82	3.48	2.08	-	6.73	-	12.29
121	1.47	1.47	3.23	1.32	-	2.21	-	9.70	3.68	3.24	-	3.38	-	10.30
114	.69	.94	2.39	.57	1.09	1.93	-	7.61	1.84	1.36	-	.73	3.32	7.25
211	1.98	1.66	1.94	2.57	-	3.02	-	11.17	5.27	1.40	.50	.81	-	7.98
312	1.39	1.86	3.25	2.73	5.67	2.68	-	17.58	.72	.57	-	2.11	-	3.40
212	1.29	1.65	3.18	3.76	3.41	3.88	-	17.17	4.00	2.59	.94	.82	-	8.35
408	.99	.99	3.71	.80	-	2.22	.06	8.77	2.96	2.10	-	5.06	-	10.12
123	1.06	1.23	1.58	.43	-	2.00	-	6.30	1.11	.64	-	3.57	-	5.32
Av.	1.33	1.35	2.78	.99	1.66	2.03	-	10.15	2.40	1.57	.08	2.74	.39	7.18

COSTS AND RETURNS PER ACRE FOR FLAX

105	1.19	1.19	4.47	1.38	-	1.48	-	9.71	1.93	1.56	-	3.56	-	7.05
202	1.28	1.28	3.27	.17	-	1.61	-	7.61	3.33	2.00	-	3.67	-	9.00
116	1.47	1.87	5.81	.66	-	2.68	.91	13.38	1.72	1.72	-	3.33	-	6.77
106	1.62	1.77	3.49	1.04	-	2.60	-	10.52	1.56	1.20	-	.89	3.75	7.40
118	2.63	3.26	5.20	1.49	-	1.77	1.54	15.89	1.37	1.60	-	2.74	-	5.71
123	1.63	1.84	3.58	.42	-	2.02	.11	9.60	1.98	1.03	-	3.57	-	6.58
102	1.64	1.73	3.26	1.87	.59	1.65	-	10.74	1.97	1.29	-	1.59	-	4.85
312	.59	.79	4.48	2.61	3.60	2.66	-	14.73	.94	.98	-	2.12	-	4.04
408	.74	.85	4.13	.80	-	2.25	.17	8.94	1.61	1.24	-	5.06	-	7.91
212	2.40	2.00	8.94	4.28	10.00	4.80	-	32.42	5.33	3.34	.80	.80	-	10.27
Av.	1.46	1.63	4.06	1.02	.52	2.10	.20	10.99	1.94	1.31	.02	3.18	.22	6.67

COSTS AND RETURNS PER ACRE FOR BARLEY (CONT'D)

Land Charge	Total Cost	Value of Crop	Net Return	Cost per bu.	Yield in bu.	Bu. of Seed	Pre-harvest			Hours		
							Man	Tract.	Horse	Man	Tract.	Horse
\$10.00	\$26.10	\$50.83	\$24.73	\$.63	41.3	1.5	1.5	1.5	-	2.6	2.2	-
10.00	25.34	35.42	10.08	.88	28.8	2.0	1.4	1.4	-	2.0	1.5	-
10.00	28.72	37.13	8.41	.95	30.2	1.6	1.6	1.6	-	5.4	3.8	-
10.00	29.18	32.21	3.03	1.11	26.3	1.8	2.1	2.1	-	3.1	2.6	-
10.00	31.11	32.51	1.40	1.17	26.4	2.0	3.0	2.8	-	4.3	2.6	-
10.00	30.00	28.98	-1.02	1.28	23.5	2.0	1.8	1.8	-	4.6	4.1	-
10.00	24.86	22.66	2.20	1.35	18.4	1.5	.9	.7	-	2.3	1.1	-
10.00	29.15	24.15	-5.00	1.48	19.6	1.2	2.5	2.3	1.8	6.6	1.2	1.4
10.00	30.98	24.07	-6.91	1.60	19.6	2.1	1.7	1.8	-	.9	.5	-
10.00	35.52	26.34	-9.18	1.66	21.4	2.0	1.6	1.6	-	5.0	2.5	-
10.00	28.89	20.86	-8.03	1.70	17.0	1.9	1.2	1.0	-	3.7	2.3	-
10.00	21.62	14.38	-7.24	1.85	11.7	1.7	1.3	1.1	-	1.4	.6	-
10.00	27.33	32.30	4.97	1.64	26.3	1.8	1.5	1.6	.1	2.9	1.7	-

COSTS AND RETURNS PER ACRE FOR FLAX (CONT'D)

10.00	26.76	44.50	17.74	2.37	11.3	1.0	1.5	1.5	-	2.4	1.9	-
10.00	26.61	42.33	15.72	2.48	10.7	.9	1.6	1.6	-	4.2	2.5	-
10.00	30.15	45.86	15.71	2.60	11.6	1.0	1.8	1.7	-	2.2	1.6	-
10.00	27.92	37.03	9.11	2.98	15.5	.8	2.0	1.9	-	1.9	1.3	-
10.00	31.60	41.08	9.48	3.04	10.4	1.1	3.3	2.7	-	2.7	1.7	-
10.00	26.39	29.39	3.21	3.52	7.4	.8	2.0	1.7	-	2.5	1.0	-
10.00	25.59	23.97	-1.62	4.22	6.1	.7	2.0	1.9	-	2.5	1.4	-
10.00	28.77	26.45	-2.32	4.29	6.7	1.0	.7	.7	-	1.2	.9	-
10.00	26.85	23.61	-3.24	4.49	6.0	.8	.9	.9	-	2.0	1.3	-
10.00	52.69	24.81	-27.88	8.40	6.3	2.0	2.9	2.0	-	6.7	3.0	-
10.00	27.66	31.62	3.96	3.84	8.0	1.1	1.8	1.6	-	2.4	1.3	-

COSTS AND RETURNS PER ACRE FOR CORN (HUSKED)

Farm No.	Pre-harvest costs							Harvest Costs					
	Man Labor	Power	Seed	Man- ure	Comm. Fert.	Mach- inery	Other	Total	Man Labor	Power	Mach- inery	Other	Total
312	\$3.16	\$4.19	\$1.66	\$.32	\$2.33	\$3.18	\$-	\$14.84	\$.47	\$.65	\$1.05	\$-	\$2.17
203	2.99	4.98	1.23	2.42	1.04	2.55	-	15.21	1.08	1.48	4.00	-	6.56
308	2.55	2.22	1.86	1.69	2.90	2.91	.08	14.21	1.75	1.42	1.52	-	4.69
212	3.96	3.42	1.18	6.56	-	1.95	-	17.07	2.81	1.82	1.60	3.99	10.22
116	1.89	2.58	1.74	.76	-	2.26	.41	9.64	.78	1.07	1.14	.15	3.14
311	3.55	4.52	1.94	4.64	6.57	6.68	-	27.90	2.22	1.41	5.86	-	9.49
105	3.19	3.17	1.93	1.56	4.69	2.03	-	16.57	3.31	2.45	3.71	-	9.47
512	2.54	3.03	1.76	3.63	9.29	4.29	-	24.54	2.25	1.31	1.37	-	4.93
202	3.61	3.20	1.71	.17	2.35	2.12	1.32	14.48	1.78	1.37	1.51	-	4.66
112	3.79	3.79	1.33	2.76	4.29	4.45	-	20.41	4.45	3.24	3.83	-	11.52
219	2.81	2.41	1.11	5.28	4.52	4.82	-	20.95	2.06	1.76	2.06	-	5.88
508	3.10	3.27	1.76	.43	4.92	5.75	.08	19.31	2.12	1.78	5.36	-	9.26
213	2.64	2.92	1.87	1.53	2.67	3.26	-	14.89	1.25	1.49	2.76	-	5.50
121	3.39	3.39	1.32	2.03	4.34	2.37	-	15.84	2.21	2.21	3.78	-	8.20
111	4.00	3.31	1.00	4.50	3.56	4.13	-	20.50	2.88	.87	.75	5.00	9.50
119	4.66	4.34	1.71	4.96	2.80	6.63	-	25.10	6.29	3.29	4.86	-	14.44
107	3.64	3.33	.98	3.29	1.94	4.09	-	17.27	3.16	1.41	1.24	1.34	7.15
208	5.71	6.74	.57	1.17	6.53	1.96	-	25.68	1.39	1.59	1.18	-	4.16
223	3.56	4.09	1.81	3.54	4.65	4.29	-	21.94	2.25	1.79	2.40	-	6.44
412	3.22	3.22	1.65	5.79	13.09	6.78	-	33.75	5.13	3.55	1.32	-	10.00
102	1.82	2.08	2.02	2.75	-	3.37	-	12.04	1.23	1.52	1.42	-	4.77
211	4.06	3.69	1.87	17.22	4.28	3.80	-	34.92	4.33	.86	-	3.80	8.99
106	3.09	3.65	1.47	1.84	2.61	3.16	-	15.82	1.42	1.04	2.83	.31	5.60
123	3.25	3.66	2.95	.69	4.50	2.28	.28	17.61	2.40	2.47	3.07	-	7.94
103	3.09	3.09	1.54	5.54	1.71	4.11	-	19.08	3.60	3.40	4.03	-	11.03
108	4.91	3.40	1.98	5.38	-	5.23	-	20.90	1.22	.90	.80	5.33	8.25
306	3.17	2.65	1.95	2.31	4.88	7.90	-	22.86	1.32	1.04	2.11	-	4.47
408	3.22	3.39	1.60	1.50	.69	2.81	1.40	14.61	1.34	1.06	2.77	-	5.17
118	3.09	4.74	1.90	1.58	-	2.47	1.23	15.01	2.27	2.82	-	1.48	6.57
206	2.43	3.38	1.18	1.51	3.91	1.66	-	14.07	2.29	2.47	5.09	-	9.85
114	2.82	4.47	2.13	1.03	4.13	1.91	-	16.49	.34	.49	2.52	-	3.35
122*	2.94	2.39	1.71	.80	-	1.78	-	9.61	.35	.24	.22	-	.82
Av.	3.14	3.50	1.70	2.30	3.12	3.33	.29	17.38	1.97	1.61	2.56	.32	6.46

*not included in the average, heavy hail damage

COSTS AND RETURNS PER ACRE FOR CORN (HUSKED) CONT'D

Land Charge	Total Cost	Value of crop	Net Return	Cost per bu.	Yield bu.	Bu. of seed	Hours					
							Pre-harvest			Harvest		
							Man	Tract.	Horse	Man	Tract.	Horse
\$10.00	\$27.01	\$80.62	\$53.61	\$.46	59.3	.14	4.0	3.9	-	.6	.6	-
10.00	31.77	80.02	48.25	.54	58.8	.13	3.7	3.7	-	1.3	1.1	-
10.00	28.90	70.69	41.79	.56	52.0	.17	3.2	3.2	-	2.2	2.0	-
10.00	37.29	91.70	54.41	.56	67.4	.14	4.9	2.8	-	1.3	3.5	1.2
10.00	22.78	54.46	31.68	.57	40.0	.16	2.4	2.4	-	1.0	1.0	-
10.00	47.39	108.41	61.02	.59	79.7	.26	4.5	4.4	-	2.8	1.4	-
10.00	36.04	80.21	44.17	.61	59.0	.17	4.0	3.9	-	4.1	3.0	-
10.00	39.47	87.05	47.58	.62	64.0	.16	3.2	3.2	-	2.8	1.0	1.4
10.00	29.14	62.05	32.91	.64	45.6	.15	4.5	4.0	-	2.2	1.7	.1
10.00	41.93	89.60	47.67	.64	65.9	.15	4.7	4.7	-	5.6	4.1	-
10.00	36.83	78.59	41.76	.64	57.8	.15	3.5	3.5	-	2.6	2.6	-
10.00	38.57	77.72	39.15	.68	57.1	.16	3.9	3.9	-	2.7	2.1	-
10.00	30.39	59.78	29.41	.69	44.0	.17	3.3	2.5	-	1.6	1.3	-
10.00	34.04	63.66	29.62	.73	46.8	.12	4.2	4.2	-	2.8	2.8	-
10.00	40.00	72.25	32.25	.75	53.1	.13	5.0	4.2	-	3.6	1.1	-
10.00	49.54	87.73	38.19	.77	64.5	.17	5.8	5.6	-	7.9	4.3	-
10.00	34.42	57.70	23.28	.81	42.4	.13	4.6	3.8	1.5	3.7	1.8	-
10.00	39.84	66.62	26.78	.81	49.0	.13	7.2	7.2	-	1.7	1.7	-
10.00	38.38	68.68	30.30	.81	50.5	.15	4.5	4.4	-	2.8	2.0	-
10.00	53.75	89.47	35.72	.82	65.8	.16	4.0	2.9	1.3	6.4	5.5	-
10.00	26.81	43.06	16.25	.85	31.7	.16	2.3	2.3	-	2.3	1.7	-
10.00	53.91	84.93	31.02	.86	62.5	.16	5.1	5.0	-	5.4	1.1	-
10.00	31.42	48.78	17.36	.88	35.9	.16	3.9	3.9	-	1.8	1.1	-
10.00	35.55	54.42	18.87	.89	40.0	.24	4.0	3.4	-	3.0	2.3	-
10.00	40.11	58.28	18.17	.94	42.9	.12	3.9	3.9	-	4.5	4.0	.9
10.00	39.15	52.26	13.11	1.02	38.4	.17	6.1	5.3	-	1.5	1.3	-
10.00	37.33	47.78	10.45	1.06	35.1	.17	3.9	3.9	-	1.7	1.5	-
10.00	29.78	34.38	4.60	1.18	25.3	.14	4.0	3.7	-	1.7	1.1	-
10.00	31.58	36.27	4.69	1.18	25.7	.15	3.9	3.9	-	2.8	2.3	-
10.00	33.92	35.92	2.00	1.28	26.4	.12	3.0	3.0	-	2.9	2.2	-
10.00	29.84	21.65	-8.19	1.87	15.9	.20	3.5	3.5	-	.4	.4	-
10.00	20.43	3.47	-16.96	8.01	2.6	.16	3.7	3.7	-	.4	.4	-
10.00	33.84	60.62	² 36.78	^{.76} .82	44.6	.13	3.9	3.7	.07	2.5	1.7	.1

COSTS AND RETURNS PER ACRE FOR SOYBEANS

Farm No.	Pre-Harvest Costs							Harvest Costs					
	Man Labor	Power	Seed	Man- ure	Comm. Fert.	Mach- inery	Total	Man Labor	Power	Twine	Mach- inery	Other	Total
123	\$2.27	\$2.79	\$4.42	\$.44	\$-	\$2.29	\$12.21	\$2.02	\$.08	-	\$2.85	-	\$4.95
116	2.29	3.08	4.29	1.02	-	2.25	12.93	.60	.83	-	2.95	-	4.38
213	2.90	4.17	5.58	1.54	-	3.20	17.39	.47	.55	-	1.99	-	3.01
121	4.89	4.89	5.41	1.26	-	2.37	18.82	.96	.74	-	3.33	-	5.03
206	2.23	3.09	4.96	.65	-	1.65	12.58	.57	.78	-	1.19	-	2.54
202	2.38	2.35	3.94	.66	-	2.12	11.45	.76	.43	-	3.49	-	4.68
102	2.32	2.51	3.49	1.87	-	3.37	13.56	.70	.76	-	.95	-	2.41
108	4.13	2.61	2.82	3.70	-	5.22	18.48	-	-	-	3.26	-	3.26
114	3.33	5.36	5.65	.59	-	1.88	16.81	.87	1.09	-	.94	-	2.90
Av.	2.53	3.10	4.55	.94	-	2.31	13.43	.79	.60	-	2.26	-	3.65

COSTS AND RETURNS PER ACRE FOR CORN SILAGE

Farm No.	Pre-Harvest Costs							Harvest Costs					
	Man Labor	Power	Seed	Man- ure	Comm. Fert.	Mach- inery	Total	Man Labor	Power	Twine	Mach- inery	Other	Total
308	\$2.60	\$2.20	\$1.60	\$.80	\$1.40	\$2.00	\$10.60	\$6.60	\$4.40	\$-	\$2.80	\$-	\$13.80
212	1.85	2.77	1.08	5.39	-	2.00	13.09	8.61	6.77	1.08	-	-	16.46
223	3.64	4.18	1.82	3.46	1.27	4.37	18.74	11.64	3.09	-	7.28	-	22.01
108	4.20	3.30	1.80	3.70	-	5.20	18.20	6.60	2.70	-	2.90	-	12.20
116	1.59	2.20	1.36	.61	-	2.27	8.03	1.97	1.89	-	.68	.76	5.30
103	3.87	3.87	1.69	5.08	1.13	4.08	19.72	6.83	5.28	-	8.80	-	20.91
121	3.40	3.20	.40	1.20	-	2.40	10.60	3.60	3.60	.80	2.60	12.00	22.60
203	2.36	3.96	1.11	2.01	-	2.57	12.01	.63	.91	-	14.09	-	15.63
102	2.55	2.90	2.10	1.85	-	3.40	12.80	6.60	2.05	-	9.60	-	18.25
107	8.13	8.13	1.87	1.87	2.50	3.75	26.25	30.62	10.63	-	-	7.50	48.75
508	3.48 3.06	2.62 4.72	1.41 1.88	.40 1.15	-	5.77 2.47	12.48 13.28	3.15 2.06	2.62 2.73	-	1.21 2.09	-	6.98 6.88
208	3.54	4.15	.62	4.77	-	1.85	14.93	.92	1.23	1.23	-	4.62	8.00
219	3.80	3.20	1.60	4.00	4.00	4.80	21.40	3.20	2.20	-	2.40	-	7.80
311	2.05	2.58	2.42	4.92	4.77	6.67	23.41	4.32	2.88	-	10.30	-	17.50
211	4.17	3.61	1.94	17.22	4.17	3.89	35.00	3.89	4.17	-	-	16.67	24.73
106	4.33	5.33	1.33	.67	4.00	3.33	19.00	6.00	3.34	-	1.66	-	11.00
123	3.27	3.68	2.41	.42	.22	2.28	12.28	4.15	2.60	-	.80	-	7.55
119	4.54	4.13	1.47	4.23	2.32	6.62	23.31	4.16	2.91	-	4.88	-	11.95
118	3.06	4.72	1.88	1.15	-	2.47	13.28	2.06	2.73	-	2.09	-	6.88
105	3.50	3.50	1.34	1.00	3.50	2.00	14.84	7.50	1.17	-	60.51	-	69.18
Av.	3.20	3.61	1.75	2.44	.95	3.66	15.61	4.44	2.82	.07	5.51	.67	13.51

COSTS AND RETURNS PER ACRE FOR SOYBEANS (CONT.)

Land Charge	Total Cost	Value of Crop	Net Return	Cost per bu. or t.	Yield bu. or t.	Bu. of Seed	Hours			Harvest	
							Pre-harvest Man	Pre-harvest Tractor	Pre-harvest Horse	Harvest Man	Harvest Tractor
\$10.00	\$27.16	\$62.33	\$35.17	\$1.23	22.1	.8	2.8	2.6	-	2.5	.1
10.00	27.31	44.77	17.46	1.72	15.9	1.2	2.8	2.8	-	.7	.7
10.00	30.40	48.99	18.59	1.75	17.4	1.5	3.6	3.6	-	.6	.4
10.00	33.85	49.26	15.41	1.93	17.5	1.6	6.1	6.1	-	1.2	.9
10.00	25.12	36.47	11.35	1.94	12.9	1.4	2.8	2.8	-	.7	.7
10.00	26.13	32.89	6.76	2.24	11.7	1.2	2.9	2.9	-	.9	.5
10.00	25.97	30.61	4.64	2.39	10.9	1.0	2.9	2.7	-	.9	.8
10.00	31.74	36.09	4.35	2.47	12.8	.8	5.2	4.1	-	-	-
10.00	29.71	32.90	3.19	2.55	11.7	1.1	4.2	4.2	-	1.1	.8
10.00	27.07	40.30	13.23	2.02 1.89	14.3	1.2	3.2	3.1	-	1.0	.6

COSTS AND RETURNS PER ACRE FOR CORN SILAGE (CONT)

Land Charge	Total Cost	Value of Crop	Net Return	Cost per bu. or t.	Yield bu. or t.	Bu. of Seed	Hours			Harvest	
							Pre-harvest Man	Pre-harvest Tractor	Pre-harvest Horse	Harvest Man	Harvest Tractor
\$10.00	\$34.40	-	-	\$3.07	11.2	.17	3.2	3.2	-	8.3	6.4
10.00	39.55	-	-	3.12	12.3	.11	2.2	1.8	2.0	10.8	6.6
10.00	50.75	-	-	3.28	15.6	.19	4.5	4.5	-	14.6	3.3
10.00	40.40	-	-	3.85	10.5	.15	5.2	5.0	-	8.3	4.1
10.00	23.33	-	-	3.90	6.0	.13	2.0	2.0	-	2.5	1.7
10.00	50.63	-	-	4.49	11.3	.21	4.8	4.8	-	8.6	6.6
10.00	43.20	-	-	4.80	9.0	.21	4.2	4.0	-	4.6	4.6
10.00	37.64	-	-	5.11	7.4	.10	3.0	3.0	-	5.7	4.9
10.00	41.05	-	-	5.13	8.0	.18	3.2	3.2	-	8.3	2.3
10.00	85.00	-	-	5.66	15.0	.20	10.3	8.4	3.8	38.1	13.4
10.00	29.66 30.16	-	-	5.89	5.0 2.6	.13 .16	3.1 3.8	3.1 3.8	-	3.8 2.6	3.2 2.2
10.00	32.93	-	-	6.48	5.1	.15	4.5	4.5	-	1.2	1.2
10.00	39.20	-	-	6.53	6.0	.20	4.7	4.7	-	4.0	3.2
10.00	50.91	-	-	6.72	7.6	.25	2.6	2.6	-	5.4	2.8
10.00	69.73	-	-	8.37	8.3	.28	5.1	5.1	-	4.7	5.8
10.00	40.00	-	-	8.57	4.7	.16	5.5	5.5	-	7.3	3.3
10.00	29.83	-	-	9.25	3.2	.19	4.1	3.4	-	5.2	2.4
10.00	45.26	-	-	9.33	4.8	.16	5.7	5.4	-	5.2	3.8
10.00	30.16	-	-	11.62	2.6	.16	3.8	3.8	-	2.6	2.2
10.00	94.02	-	-	11.35	8.0	.14	4.4	4.4	-	9.3	1.5
10.00	39.12	-	-	6.94 .21 6.94	6.3	.18	4.0	3.8	.1	5.6	3.1

COSTS AND RETURNS PER ACRE FOR ALFALFA MIXTURES

Farm No.	Pre-Harvest Costs				Total	Harvesting					
	Fert. Seed	Man-ure	Comm. Fert.	Other Costs		Mow and Rake			Put up Hay		
						Man	Power	Mach.	Man	Power	Mach.
308	\$6.74	\$.70	\$ -	\$1.24	\$8.68	\$2.02	\$1.78	\$1.73	\$4.21	\$4.61	\$3.06
202	6.75	.25	-	.75	7.75	2.00	2.00	2.50	4.00	2.00	25.00
118	6.73	1.19	-	.50	8.42	2.07	3.27	.20	4.46	3.66	9.90
116	3.24	.65	-	.75	4.64	1.98	2.66	2.19	4.16	2.05	3.75
512	6.19	3.03	1.14	1.25	11.61	1.44	1.67	.89	1.81	.60	2.88
412	6.57	2.95	-	3.64	13.16	1.51	2.11	1.51	4.54	2.36	2.59
219	6.23	4.13	-	1.93	12.29	1.35	1.16	4.62	4.42	1.61	2.87
208	-	3.01	-	.82	3.83	1.58	1.85	.82	1.16	1.37	8.09
212	6.41	4.24	-	.66	11.31	2.97	3.11	1.22	5.05	2.88	.27
114	6.74	.57	-	.65	7.96	.98	1.52	3.04	1.03	.27	4.27
508	6.75	1.24	-	1.18	9.17	1.37	.95	1.20	2.55	2.03	.49
311	6.55	3.10	1.85	2.75	14.25	1.23	1.50	1.12	3.38	2.83	3.85
121	4.47	1.26	-	1.07	6.80	-	-	-	5.53	3.34	7.87
103	5.27	3.13	-	1.18	9.58	1.90	1.06	1.40	3.29	1.78	15.42
112	5.80	1.30	-	2.38	9.48	1.07	1.07	.77	2.45	3.30	3.02
111	5.54	1.07	-	1.05	7.66	2.16	1.59	.60	4.13	.72	12.45
312	6.75	.26	-	.93	7.94	1.03	1.39	1.96	3.97	2.17	2.11
223	6.43	5.12	-	1.02	12.57	1.23	1.40	2.43	4.07	1.96	4.91
119	5.67	5.64	-	3.34	14.65	2.25	1.96	3.13	4.93	3.16	8.36
107	4.60	1.50	-	1.11	7.21	1.99	1.76	2.08	3.81	.84	2.79
106	6.72	.80	-	1.31	8.83	2.12	2.55	4.08	2.85	1.38	5.47
213	6.80	3.24	-	1.80	11.84	1.24	1.54	2.86	1.50	1.37	3.85
123	3.28	3.53	-	.98	7.79	2.30	2.71	.90	.16	.08	.49
306	6.79	5.18	-	2.69	14.66	1.24	1.04	1.09	3.42	1.04	5.03
108	6.73	3.68	-	3.33	13.74	2.81	1.99	3.98	4.68	.82	5.26
211	6.56	2.67	-	.49	9.72	1.40	1.27	2.59	1.57	.49	2.46
105	9.03	1.06	-	.63	10.72	1.60	1.56	3.21	3.08	1.06	1.56
203	6.74	2.00	-	1.43	10.17	1.94	3.49	2.80	2.86	1.60	10.11
102	6.74	1.89	3.54	.74	12.91	1.20	1.31	5.83	1.43	.63	5.09
408	6.67	.67	-	7.33	14.67	5.33	6.00	4.00	3.33	4.00	6.00
122*	6.77	.30	-	.72	7.79	.34	.26	2.04	.47	.38	2.04
Av.	6.06	2.39	.25	1.52	10.22	1.57	1.59	1.86	3.19	1.91	4.82

COSTS AND RETURNS PER ACRE FOR TAME HAY (OTHER THAN ALFALFA)

206	3.50	-	-	.50	4.00	.50	.50	.50	1.00	1.00	6.00
211	4.71	2.35	-	.59	7.65	2.35	2.35	2.35	2.35	.60	1.18
202	-	.20	-	.67	.87	.74	.75	.87	.60	.40	2.35
202	4.77	.18	-	.64	5.59	1.25	1.36	.86	2.51	1.08	9.11
116	4.74	.62	-	.78	6.14	1.14	1.61	2.19	.94	.52	4.17
208	3.65	3.02	-	.80	7.47	.95	1.27	.79	.80	.95	9.53
Av.	3.64	.60	-	.69	4.93	1.10	1.29	1.24	1.50	.76	6.15

*not included in the average, heavy hail damage

COSTS AND RETURNS PER ACRE FOR ALFALFA MIXTURES (CON'T)

Costs			Total	Land Charge	Total Cost	Production, tons			Cost per T. Hay Eq.	Times cut	Hours		
Put up	Silage	Mach.				Hay	Sil- age	Hay Equiv.			Man	Tract.	Horse
\$4.07	\$5.12	\$3.06	\$29.66	\$10.00	\$48.34	2.7	9.2	5.8	\$ 8.38	2.4	12.9	11.0	-
-	-	-	37.50	10.00	55.25	3.5	-	3.5	8.64	3.0	10.4	4.9	-
-	-	-	23.56	10.00	41.98	4.5	-	4.5	9.42	2.0	8.2	5.7	-
2.25	2.23	.27	21.54	10.00	36.18	2.9	1.7	3.5	10.29	2.8	10.5	6.4	-
.47	.45	1.70	11.91	10.00	33.52	2.5	1.1	2.9	11.29	2.0	4.4	2.1	2.3
1.59	1.05	2.21	19.47	10.00	42.63	2.3	4.5	3.8	11.31	1.6	9.6	6.2	1.5
2.92	2.15	2.47	21.57	10.00	43.86	2.9	2.7	3.8	11.50	2.2	8.4	7.1	-
.82	.34	4.93	20.96	10.00	34.79	1.8	3.6	3.0	11.54	2.0	4.5	4.5	-
-	-	-	15.50	10.00	36.81	3.2	-	3.2	11.67	2.4	10.1	2.6	7.6
.72	1.14	9.57	22.54	10.00	40.50	.8	7.6	3.3	12.11	2.4	4.2	3.0	-
-	-	-	8.59	10.00	27.76	2.3	-	2.3	12.13	2.0	5.0	3.6	-
2.20	2.22	5.40	23.73	10.00	47.98	2.4	4.0	3.4	13.40	2.0	8.5	6.4	-
-	-	-	16.74	10.00	33.54	2.3	-	2.3	13.91	1.7	6.9	4.2	-
-	-	-	24.85	10.00	44.43	3.1	-	3.1	14.18	2.0	6.5	2.9	4.1
-	-	-	11.68	10.00	31.16	2.2	-	2.2	14.33	1.5	4.3	5.5	-
-	-	-	21.65	10.00	39.31	2.7	-	2.7	14.60	3.0	7.4	3.5	-
-	-	-	12.63	10.00	30.57	2.1	-	2.1	14.82	2.0	6.3	3.3	-
-	-	-	16.00	10.00	38.57	2.5	-	2.5	15.16	1.7	6.6	3.7	-
.55	.44	1.07	25.85	10.00	50.50	2.8	1.1	3.2	15.85	1.9	9.3	7.3	-
2.39	1.33	3.19	20.18	10.00	37.39	1.5	2.3	2.3	16.25	1.9	10.2	4.1	2.5
-	-	-	18.47	10.00	37.30	2.3	-	2.3	16.48	3.0	6.3	4.2	-
2.14	1.28	2.56	18.34	10.00	40.18	.9	4.5	2.4	16.78	2.0	6.1	3.6	-
3.11	2.21	.66	12.62	10.00	30.41	1.0	2.5	1.8	16.86	2.0	6.9	4.6	-
-	-	-	12.86	10.00	37.52	2.2	-	2.2	17.24	2.0	5.8	3.1	-
-	-	-	19.54	10.00	43.28	2.5	-	2.5	17.62	3.0	9.4	4.3	-
1.63	.70	3.10	15.21	10.00	34.93	1.6	1.2	2.0	17.74	1.2	5.8	3.4	-
-	-	-	12.07	10.00	32.79	1.7	-	1.7	19.05	1.3	5.8	3.2	-
-	-	-	22.80	10.00	42.97	2.2	-	2.2	19.79	3.0	6.0	3.7	-
-	-	-	15.49	10.00	38.40	1.7	-	1.7	22.40	2.0	3.3	2.1	-
-	-	-	28.67	10.00	53.34	1.3	-	1.3	40.00	3.0	11.0	10.7	-
-	-	-	5.53	10.00	23.32	.6	-	.6	40.60	1.0	1.0	1.0	-
.77	.68	1.48	17.87	10.00	38.09	2.3	1.7	2.9	15.16 13.13	2.0	6.6	4.3	.4

COSTS AND RETURNS PER ACRE FOR TAME HAY (OTHER THAN ALFALFA) CON'T

-	-	-	9.50	10.00	23.50	3.0	-	3.0	7.83	-	-	-	-
-	-	-	11.18	10.00	28.83	2.1	-	2.1	10.28	2.0	5.9	3.8	-
-	-	-	5.71	10.00	16.58	1.2	-	1.2	13.72	1.0	1.7	1.3	-
-	-	-	16.17	10.00	31.76	2.3	-	2.3	14.06	1.0	4.3	2.8	.4
1.67	1.40	.63	14.27	10.00	30.41	.7	1.6	1.2	25.95	1.0	4.7	3.2	-
-	-	-	14.29	10.00	31.76	.5	-	.5	66.00	1.0	2.2	2.2	-
.44	.38	.17	13.03	10.00	27.96	1.5	.4	1.6	22.97	1.4	3.6	2.5	.01

COSTS PER ACRE OF ESTABLISHING ALFALFA MIXTURE SEEDINGS.

Farm No	Alf. lbs	Brome lbs	Other lbs		Cost	Fertilizer Applied			Total cost	Acres	
			Grass	Leg.		Kind	lbs	cost		Total	% Fert.
515	2.0	3.3	-	2.0	3.20	-	-	-	3.20	30.0	0
112	5.7	-	2.9	1.1	5.11	0-46-0	191.7	3.77	8.88	31.3	100
122	8.6	-	-	-	5.14	-	-	-	5.14	7.0	0
212	6.0	-	-	-	5.36	4-24-12	291.4	8.01	13.37	15.1	100
123	6.7	-	-	-	5.73	-	-	-	5.73	8.9	0
114	7.1	2.0	-	.8	6.25	0-48-0	209.7	7.20	13.45	76.3	100
106	8.6	-	2.0	1.1	6.27	-	-	-	6.27	11.0	0
208	8.0	6.2	-	-	6.27	5-20-10	189.0	1.81	8.08	19.3	28
308	5.4	-	-	4.0	6.55	0-20-10	125.9	2.88	9.43	27.8	100
223	8.6	2.0	-	-	6.88	4-24-12	173.9	4.17	11.05	24.0	96
118	8.0	3.3	-	-	7.33	0-46-0	200.0	1.47	8.80	15.0	33
102	7.8	6.3	-	-	7.76	0-62-0	156.1	6.15	13.91	20.5	100
219	12.1	3.3	-	-	7.97	0-20-20	222.2	3.40	11.37	15.3	58
306	5.0	3.0	4.0	6.0	8.45	0-20-20	390.0	10.50	18.95	20.0	100
116	9.7	-	-	-	8.67	-	-	-	8.67	19.6	0
107	8.8	2.2	-	3.7	8.97	0-20-10	147.0	2.94	11.91	13.6	100
211	6.9	6.5	-	3.7	9.64	0-20-10	363.0	5.74	15.38	19.5	69
Av.	7.0	2.3	.5	1.4	6.62		214.3	4.91	11.53	22.0	70

COSTS AND RETURNS FOR FEEDER CATTLE - PER 100 POUNDS

Farm No.	Feed	Labor	Shel-ter	Equip-ment	Inter-est	Power	Misc. Cost	Total	Value produced	Ret. over all costs	Return per hour
130	6.99	4.51	.56	-	3.43	.15	.11	15.75	32.59	16.84	3.78
213	15.82	1.64	.20	.41	2.11	.26	.21	20.65	36.34	15.69	8.45
323	32.90	2.17	1.54	.08	1.19	.51	.26	38.65	49.19	10.54	4.67
125	23.58	2.70	.87	1.03	2.24	.81	2.05	33.28	42.93	9.65	3.66
317	19.03	1.41	1.70	.20	1.25	.55	.39	24.53	33.03	8.50	5.60
134	35.28	3.94	.55	.11	4.33	.37	.14	44.72	39.03	-5.69	none
519	30.81	1.86	.80	.38	2.36	.42	.77	37.40	24.37	-13.03	none
129	58.51	13.36	8.09	.12	3.34	1.14	1.23	85.79	17.24	-68.55	none
Av.	24.17	2.43	1.00	.24	2.31	.44	.55	31.14	36.72	5.58	2.64

DISTRIBUTION OF ACRES IN FARMS

Crop	Farms growing crop		Average of 33 Farms	Average Yield t. or bu.
	No.	Av. Acreage		
Flax	12	31.6	11.5	8.0
Oats	31	35.7	33.6	48.5
Barley	13	24.1	9.5	26.3
Wheat	3	6.7	.6	-
Rye and mixtures	4	17.9	2.2	-
Total small grain			57.4	
Corn, grain	33	55.5	55.5	44.6
Corn, silage	22	11.9	7.9	6.3
Soybeans	10	34.4	10.4	14.3
Total cultivated crops			73.8	
Alfalfa mixtures	33	31.1	31.1	2.8
Other tame hay	5	17.8	2.8	1.6
Legume seed	3	11.1	1.0	
Other crops	6	14.4	3.0	
Total			37.9	
Total crop acres			169.1	
Rotational Pasture	33		22.9	
Total Tillable Land			192.0	
Perm. Pasture	20	28.8	17.5	
Farmstead			7.6	
Timber, waste and roads			14.4	
Total farm			231.5	

FACTORS OF COSTS AND RETURNS - FEEDER CATTLE

Lbs. produced	Man hours	Feeds Fed per 100 Lbs.				
		Roughages, lbs.		Concentrates, lbs.		
		Hay	Silage	Corn	Grain	comm.
23815	2	300	1041	360	-	4
6095	6	196	657	38	15	21
28640	2	256	-	477	25	27
19495	3	390	-	1087	8	64
7815	3	972	384	502	51	-
27460	2	320	138	500	47	45
25380	5	312	748	1052	101	29
20750	2	901	337	693	85	55
3325	16	571	4331	842	269	194
18086	3	469	848	617	67	49

COSTS AND RETURNS FOR DAIRY COWS - PER COW

Farm No.	Costs								Total	Value of Prod.
	Feed	Man Labor	Shel-ter	Equip-ment	Inter-est	Power	Misc. Cash	Death loss		
127	\$138.83	\$ 85.93	\$10.72	\$ 9.91	\$14.50	\$2.92	\$18.10	\$ -	\$280.91	\$397.76
123	116.74	63.07	2.25	9.54	12.50	1.56	30.32	-	235.98	346.92
214	126.05	61.16	8.14	6.57	12.50	4.10	17.62	14.53	250.67	336.83
132	137.86	72.40	3.23	6.38	14.25	3.41	12.23	-	249.76	335.08
118	127.95	83.27	8.13	6.35	11.50	2.92	16.67	-	256.76	335.56
122	113.80	74.21	20.94	6.77	9.25	1.61	19.90	-	246.48	300.30
116	90.27	66.02	26.35	6.01	10.50	1.76	15.47	-	216.38	270.08
322	192.64	82.68	38.48	14.32	13.50	2.00	48.36	-	391.98	425.12
234	143.02	103.51	4.42	16.93	16.50	3.38	33.89	-	321.65	353.08
222	169.15	67.92	3.67	6.70	14.50	2.50	34.95	-	299.39	330.41
113	72.55	78.82	25.59	8.92	11.25	1.67	3.14	-	201.94	232.55
423	176.18	117.48	19.74	8.05	15.75	5.52	14.68	-	357.40	362.56
114	160.76	87.53	14.31	5.38	16.00	1.77	39.73	12.31	337.79	341.48
130	138.76	120.25	8.72	7.87	15.75	2.76	32.17	-	326.28	325.42
230	154.53	93.30	8.11	7.08	13.50	1.51	29.29	12.74	320.06	312.26
523	151.28	87.13	10.81	7.98	14.50	6.31	20.51	14.65	313.17	295.28
319	114.58	58.62	42.11	11.65	13.25	.73	23.12	-	264.06	238.61
219	148.21	81.80	12.14	5.00	13.00	1.32	19.18	-	280.65	251.84
223	185.17	105.80	20.67	4.93	13.00	3.58	25.27	-	358.42	316.04
119	142.96	85.08	15.76	.68	13.75	2.05	28.26	20.83	309.37	260.16
217	106.90	90.80	8.40	2.80	16.25	.60	14.30	32.50	272.55	223.10
125	117.04	94.11	4.53	.27	16.25	2.53	19.60	-	254.33	173.29
Av.	140.77	84.05	14.17	8.05	13.79	2.70	24.91	4.55	292.99	323.30

FACTORS OF COSTS AND RETURNS FOR DAIRY COWS - PER COW

Return over costs	Return per Hour	lbs bft	Man Hours	Feeds Fed lbs.				
				Roughages		Concentrates		
				Hay	Silage	Corn	Grain	Comm.
\$116.85	\$1.89	378	107	4307	7530	1407	906	226
110.94	2.21	364	79	6100	-	1226	668	307
86.16	1.93	308	76	3625	5232	1306	512	332
85.32	1.74	313	91	3319	4367	1074	1211	611
78.80	1.56	317	104	3626	4912	979	1473	278
53.82	1.38	317	93	4479	1771	1307	524	380
53.70	1.45	292	83	2837	4460	863	711	121
33.14	1.12	382	103	3160	18080	2045	748	854
31.43	1.04	347	129	3828	6069	1103	537	1094
31.02	1.17	339	85	6489	7553	1075	1385	511
30.61	1.11	271	99	4706	4902	247	157	29
5.16	.83	414	147	4416	12338	647	1328	456
3.69	.83	354	109	6308	8000	708	801	1141
-.86	.79	307	150	5106	9021	915	444	790
-7.80	.73	328	117	4811	5660	1977	908	205
-17.89	.64	324	109	4697	6061	764	1863	423
-25.45	.45	246	73	2294	12018	642	1332	-
-28.81	.52	303	102	4439	10510	1571	751	245
-42.38	.48	315	132	4638	5990	1339	2792	367
-49.00	.34	268	106	3788	8333	943	1090	519
-49.45	.36	248	113	800	7600	1456	1056	168
-81.04	.11	219	118	2667	5600	1493	961	422
30.31	1.08	325	105	4110	7091	1140	1007	431

COSTS AND RETURNS PER HEAD FOR OTHER DAIRY CATTLE

Farm No.	Costs						Total	Value Produced
	Feed	Man Labor	Shelter	Interest on Inv.	Power	Misc. Cash		
230	\$54.40	\$14.86	\$6.62	\$6.23	\$.51	\$1.43	\$84.05	\$196.56
217	38.31	19.01	1.97	3.66	.35	1.20	64.50	176.47
119	39.27	13.12	5.16	6.93	.54	4.59	69.61	145.75
319	47.56	9.96	35.54	6.36	.19	.12	99.73	169.30
222	60.19	27.69	1.60	5.57	.57	2.59	98.21	164.76
123	76.29	19.51	2.92	5.61	1.16	.37	105.86	167.21
130	50.70	18.82	3.02	8.19	.92	3.42	85.07	137.78
118	48.00	20.32	2.80	4.76	.52	1.52	77.92	129.00
219	49.82	12.88	7.12	5.95	-	1.71	77.48	118.02
125	22.55	10.10	1.67	6.96	.10	3.92	45.30	80.20
234	45.56	21.22	10.56	5.93	2.63	7.80	93.70	124.60
127	64.93	11.30	4.02	8.13	1.46	2.79	92.63	123.06
523	60.99	14.34	3.76	6.95	1.56	1.05	88.65	118.62
116	35.48	17.48	17.48	6.87	.61	1.04	78.96	101.66
122	48.22	19.41	18.29	4.21	.53	2.04	92.70	109.34
113	32.27	6.04	6.53	8.79	.87	.77	55.27	56.52
132	51.98	11.25	1.84	7.49	.63	.48	73.67	74.39
114	67.05	19.36	6.09	8.04	1.50	.40	102.44	93.84
423	69.94	23.66	17.37	8.68	.34	1.49	121.48	111.82
214	62.10	6.43	3.54	6.43	.38	.15	79.03	67.82
223	67.78	20.13	27.02	7.53	2.97	1.08	126.51	101.83
322	109.65	20.65	11.98	8.41	.95	3.73	155.37	61.34
Av.	56.25	16.06	8.38	6.87	.98	2.07	90.61	118.60

FACTORS OF COSTS AND RETURN PER HEAD OTHER DAIRY CATTLE

Return over all costs	Return per Hour	Man Labor Hour	lbs B.F. p.cow	Feeds Fed, lbs.				
				Roughage Silage	lbs. Hay	Concen- trates	Skim milk	Whole milk
\$112.51	\$6.86	18.6	328	2743	1143	719	-	491
111.97	5.52	23.8	248	3380	1161	348	757	90
76.14	5.44	16.4	268	2537	1220	340	298	-
69.57	6.38	12.4	246	3256	1240	591	-	210
66.55	2.72	34.6	339	1321	1698	902	8	367
61.35	3.32	24.3	364	-	1951	726	-	1390
52.71	3.04	23.5	307	3218	1738	493	-	363
51.08	2.86	25.0	317	2000	1360	629	-	186
40.54	3.33	16.1	303	3153	1576	-	1666	608
34.90	3.56	12.6	219	980	588	188	147	89
30.90	1.97	26.5	347	734	2018	381	1026	229
30.43	2.95	14.1	378	2764	1463	701	-	571
29.97	2.47	17.9	324	2170	2169	734	612	321
22.70	1.84	21.8	292	1914	1739	237	-	104
16.64	1.49	24.2	317	614	1519	580	-	255
1.25	.97	7.6	271	3865	1256	110	623	166
.72	.85	14.1	313	483	1353	978	-	208
-8.60	.44	24.2	354	2735	2198	876	-	371
-9.66	.47	29.5	414	4114	1943	651	1546	160
-11.21	none	8.0	308	1186	1504	1398	-	70
-24.68	none	25.1	315	2278	1899	1315	-	305
-94.03	none	25.8	382	7861	1691	2312	-	231
27.99	2.19	20.1	325	2423	1565	691	304	308

COSTS AND RETURNS PER COW FOR ALL DAIRY CATTLE*

Farm No.	Costs								Value Produced	
	Feed	Man Labor	Shel-ter	Equip. ment	Inter-est	Power	Misc. cash	Death loss		Total
123	\$174.12	\$77.75	\$4.45	\$9.54	\$16.70	\$2.43	\$30.60	\$ -	\$315.59	\$472.69
118	198.13	112.98	12.22	6.32	18.48	3.68	18.89	-	370.70	524.16
127	210.99	98.49	15.18	9.91	23.52	4.55	21.21	-	383.85	534.54
217	161.30	117.80	11.20	2.80	21.40	1.10	16.00	32.50	364.10	473.70
222	237.01	99.15	5.48	6.70	20.80	3.14	37.87	-	410.15	516.21
132	184.86	82.58	4.89	6.38	21.01	3.97	12.66	-	316.35	402.33
230	199.43	105.57	13.58	7.08	18.63	1.93	30.48	12.74	389.44	474.53
130	213.81	148.12	13.19	7.87	27.87	4.13	37.23	-	452.22	529.41
214	187.24	67.50	11.63	6.57	18.84	4.48	17.75	14.54	328.55	403.67
116	117.84	79.60	39.93	6.01	15.81	2.23	16.29	-	277.71	349.07
119	203.95	105.46	23.79	.68	24.55	2.88	35.37	20.83	417.51	486.53
122	151.97	89.58	35.41	6.77	12.60	2.03	21.52	-	319.88	386.85
234	194.40	127.44	16.31	16.93	23.17	6.34	42.69	-	427.28	493.58
319	170.87	70.41	84.17	11.65	20.78	.96	23.26	-	382.10	438.98
113	138.03	91.07	38.82	8.92	29.11	3.43	4.71	-	314.09	347.22
523	242.14	108.50	16.42	7.98	24.85	8.64	22.07	14.65	445.25	472.02
219	204.81	96.48	20.22	5.00	19.71	1.33	21.13	-	368.68	385.84
423	255.71	144.38	39.49	8.05	25.66	5.91	16.37	-	495.57	489.72
114	256.95	115.30	23.04	5.38	27.54	3.92	40.31	12.31	484.75	476.10
125	147.70	107.84	6.80	.26	25.73	2.67	24.92	-	315.92	282.33
322	280.80	99.28	48.12	14.32	20.28	2.76	51.36	-	516.92	474.44
223	236.91	121.16	41.31	4.93	18.74	5.85	26.08	-	454.98	393.77
Av.	203.88	102.06	23.57	8.05	21.48	3.81	27.24	4.55	394.64	456.36

* All dairy cattle were valued on the basis of sale prices for the years 1949 - 1951. This value was used as the basis for computing the interest charge and also the value of young cattle produced.

FACTORS OF COSTS AND RETURNS PER COW FOR ALL DAIRY CATTLE

Return over costs	Return per hour	Man labor hours	Lbs. B. F. per cow	Feeds fed, lbs.				
				Roughages		Concen- trates	Skim milk	Whole milk
				Silage	Hay			
\$157.10	\$2.42	97	364	-	7569	2747	-	1046
153.45	1.89	141	317	7836	5614	3651	-	272
150.69	2.02	123	378	10602	5934	3318	-	635
109.60	1.55	147	248	12400	2448	3174	1075	129
106.06	2.11	97	339	9042	8404	3988	9	414
85.99	1.63	103	313	4804	4542	3781	-	188
85.09	1.44	132	328	7925	5755	3684	-	406
77.19	1.22	185	307	13786	7680	2879	-	537
75.12	1.69	84	308	6395	5107	3528	-	69
71.35	1.52	99	292	5946	4189	1879	-	81
69.02	1.32	131	268	12273	5682	3082	463	-
66.97	1.40	112	317	2257	5729	2670	-	202
66.31	1.22	159	347	6896	6103	3164	1156	258
56.88	1.45	88	246	15871	3761	2674	-	249
33.13	1.09	114	271	12744	7254	656	1265	337
26.77	1.00	136	324	9294	7930	4144	912	478
17.15	.94	120	303	14090	6228	2569	1888	689
-5.85	.77	180	414	17017	6625	3172	1757	182
-8.65	.74	144	354	11923	9461	3908	-	532
-33.59	.55	135	219	6932	3466	3131	200	120
-42.48	.46	124	382	24400	4520	5506	-	186
-61.21	.40	151	315	7730	6087	5502	-	233
61.72	1.28	128	325	9848	6050	3450	295	345

COSTS AND RETURNS FOR HOGS - PER 100 LBS.

Farm No.	COSTS							Value Produced	
	Feed	Man Labor	Shel-ter	Equip.ment	In-ter-est	Power	Misc. Cost		Total
222	\$7.87	\$1.94	\$ -	\$.46	\$.29	\$.69	\$.64	\$11.89	\$21.79
217	8.79	1.38	.13	.07	.24	.16	.33	11.10	19.52
219	10.15	1.20	.70	.05	.29	.08	.14	12.70	20.56
113	13.60	1.17	.71	.01	.39	.17	.43	16.48	22.68
123	11.42	1.34	.30	.02	.23	.10	.08	13.49	19.46
230	10.32	1.98	.16	.08	.30	.11	.37	13.32	18.93
224	11.80	1.00	.25	.09	.29	.13	1.02	14.58	19.89
119	12.62	1.17	.09	.03	.27	.19	.45	14.82	19.69
130	11.68	1.60	.34	.25	.26	.14	.64	14.91	19.51
223	11.64	1.36	.52	.08	.24	.23	.63	14.70	17.76
419	14.71	2.09	.05	.26	.31	.17	.96	18.55	21.37
114	11.73	1.29	-	.06	.30	.10	.18	13.66	16.36
323	12.03	1.02	.22	.22	.22	.30	.89	14.90	17.58
519	12.92	1.09	.17	.15	.15	.16	.39	15.03	17.59
133	14.84	1.11	.31	.51	.29	.05	.48	17.59	19.80
317	13.33	1.23	.13	.43	.36	.37	.59	16.44	17.98
125	14.07	.88	.44	.04	.30	.21	.43	16.37	17.90
118	15.22	1.47	.54	.07	.19	.19	.22	17.90	19.10
134	13.55	1.83	.27	.19	.50	.33	.66	17.33	17.06
322	12.37	1.60	.56	.36	.36	.15	.85	16.25	15.90
234	15.90	2.25	.41	.33	.19	.16	-	19.24	18.52
127	17.39	1.53	.61	.11	.27	.17	.72	20.80	19.75
117	17.04	2.17	-	.24	.29	.02	.60	20.36	18.56
132	12.18	3.81	1.72	.65	.37	.25	1.29	20.27	18.23
523	16.51	2.02	.09	.65	.25	.33	.11	19.96	17.87
423	17.76	2.78	.57	.14	.23	.16	-	21.64	18.86
213	17.84	1.57	.04	.14	.31	.21	.77	20.88	17.92
129	18.48	1.80	.56	.30	.37	.39	.68	22.58	18.07
319	24.76	1.27	.68	.16	1.44	.07	-	28.38	23.14
Av.	13.64	1.41	.30	.19	.29	.20	.54	16.57	18.77

FACTORS OF COSTS AND RETURNS FOR HOGS - PER 100 LBS.

Ret. over all costs	Return per hour	Lbs. Produced	Man Hours	Feeds Fed. Lbs.				Pigs weaned per litter
				Corn Lbs.	Small grains	Comm. Feed	Skim Milk	
\$9.90	\$4.87	3455	2	188	70	12	38	-
8.42	5.68	23095	2	250	48	8	233	7.4
7.86	6.05	14505	1	263	98	22	-	7.0
6.20	5.04	39305	1	389	64	32	131	7.4
5.97	4.37	31050	2	305	67	40	-	8.2
5.61	3.06	16625	2	263	19	67	-	6.4
5.31	5.01	57780	1	251	110	38	-	6.9
4.87	4.13	58930	1	266	119	65	-	7.1
4.60	3.09	69293	2	198	105	76	2	8.8
3.06	2.59	42935	2	331	4	63	-	5.5
2.82	1.87	42435	3	403	96	45	-	5.8
2.70	2.47	34250	2	249	175	36	-	6.0
2.68	2.89	34650	1	314	127	14	-	6.5
2.56	2.68	76150	1	278	80	50	-	7.4
2.21	2.39	37171	1	492	34	31	-	5.6
1.54	1.80	50572	2	309	76	69	-	7.6
1.53	2.20	83870	1	337	59	80	30	5.8
1.20	1.45	25535	2	314	238	34	-	7.8
-.27	.68	27495	2	401	82	37	-	7.6
-.35	.62	37270	2	318	74	48	-	8.5
-.72	.55	18170	3	484	25	59	172	7.6
-1.05	.25	40010	2	430	101	69	111	7.0
-1.80	.14	18745	3	256	244	82	-	5.7
-2.04	.37	4015	5	404	52	25	-	7.3
-2.09	none	32940	3	459	109	16	402	8.3
-2.78	none	7240	3	289	209	-	1406	6.5
-2.96	none	50162	2	313	236	74	-	7.4
-4.51	none	26625	2	358	300	27	-	5.6
-5.24	none	5575	2	849	-	72	-	6.0
2.20	2.05	34822	2	347	104	45	87	6.7

COSTS AND RETURNS FOR CHICKENS - PER HEN

Costs

Farm No.	Costs							Value Produced			
	Feed	Man Labor	Shel-ter	Equip. ment	In-ter-est	Power	Misc. Cash.	Total	Eggs	Poult.	Total
217	\$4.43	\$2.86	\$.37	\$.04	\$.10	\$.25	\$.36	\$8.41	\$10.40	\$2.19	\$12.59
119	5.09	1.23	.60	.05	.08	.07	.49	7.61	8.36	2.66	11.02
130	3.24	2.37	.16	.20	.08	.08	.10	6.23	8.53	.76	9.29
132	6.02	2.04	.08	.24	.08	.10	.15	8.71	7.92	3.13	11.05
114	2.86	.86	.31	.06	.05	.04	.05	4.23	6.81	-.37	6.44
219	3.86	.98	.27	.31	.08	.05	.15	5.70	6.95	.95	7.90
423	3.51	1.55	.35	.14	.06	.11	.12	5.84	7.95	.09	8.04
122	4.92	1.26	-	.30	.06	.06	.13	6.73	8.87	-.08	8.79
117	7.81	1.90	.32	.39	.10	.03	.16	10.71	10.22	2.31	12.53
317	4.65	.97	-	.26	.06	.06	.14	6.14	6.49	.99	7.48
223	3.32	2.08	.49	.17	.06	.14	.13	6.39	7.62	-.17	7.45
323	5.26	1.27	.27	.11	.05	.04	.27	7.27	6.69	1.17	7.86
222	6.69	1.52	.45	.07	.04	.24	.18	9.19	9.52	.23	9.75
523	4.98	1.94	1.15	.34	.04	.27	.15	8.87	9.38	-.14	9.24
123	4.93	2.50	.16	.23	.10	.11	.19	8.22	6.54	1.78	8.32
224	3.36	1.01	.16	.13	.05	-	.09	4.80	5.08	-.41	4.67
116	6.71	2.41	.32	.23	.06	.18	.27	10.18	8.73	.70	9.43
319	6.76	1.86	.03	.28	.10	.08	.28	9.39	6.25	2.31	8.56
125	9.71	1.10	-	.79	.03	.09	.96	12.68	4.69	7.16	11.85
419	2.31	1.62	.28	.33	.09	.05	.50	5.18	4.51	-.20	4.31
214	5.37	2.38	.31	.04	.08	.01	.11	8.30	6.06	.49	6.55
133	4.64	1.52	.08	.53	.08	.10	.02	6.97	3.90	1.12	5.02
213	3.93	2.14	.24	.26	.05	.12	.02	6.76	4.42	-.16	4.26
230	6.17	4.33	.26	.19	.06	.09	.15	11.25	8.33	.39	8.72
134	5.40	1.29	.33	.30	.04	.04	.04	7.44	3.56	.54	4.10
519	8.26	1.56	1.16	.56	.04	.06	.02	11.66	7.18	-.02	7.16
129	5.45	2.40	.67	.15	.08	.20	.16	9.11	4.57	-.78	3.79
Av.	5.14	1.66	.30	.23	.06	.10	.21	7.70	7.40	1.05	8.45

FACTORS OF COSTS & RETURN PER HEN

Return over costs	Return per hour	No. eggs prod.	Lbs. meat prod.	Man Hours	Feed lbs.		
					Grain	Comm. Feeds	Milk
\$4.18	\$1.97	247	6.9	3.6	99	48	-
3.41	3.03	226	10.6	1.5	111	41	-
3.06	1.83	237	5.3	3.0	93	13	-
2.34	1.72	200	12.6	2.5	112	67	-
2.21	2.86	174	-1.5	1.1	55	26	-
2.20	2.60	191	2.8	1.2	54	69	-
2.20	1.94	184	4.5	1.9	62	36	-
2.06	2.11	235	4.0	1.6	89	80	-
1.82	1.57	278	10.7	2.4	145	97	-
1.34	1.90	203	8.0	1.2	126	30	-
1.06	1.20	221	4.4	2.6	49	45	-
.59	1.18	216	4.4	1.6	152	22	-
.56	1.10	272	3.4	1.9	45	124	-
.37	.95	266	3.8	2.4	144	24	-
.10	.83	194	6.8	3.1	118	31	-
-.13	.70	161	.1	1.3	80	28	-
-.75	.55	243	6.0	3.0	155	42	-
-.83	.44	193	12.6	2.3	127	61	-
-.83	.19	132	-	1.4	118	148	-
-.87	.37	149	-.9	2.0	47	22	-
-1.75	.21	178	5.4	3.0	66	76	-
-1.95	.23	120	7.7	1.9	35	75	-
-2.50	-.14	138	.7	2.7	134	4	-
-2.53	.33	230	6.6	5.4	130	50	-
-3.34	-1.27	104	5.7	1.6	115	27	-
-4.50	-.1.51	215	-.1	1.9	93	109	-
-5.32	.1.47	146	2.9	3.0	156	21	90
.75	1.16	205	4.7	2.1	100	52	3

COST PER HOUR OF OPERATING TRACTORS

Farm No.	Depreciation	Interest @ 5%	Fuel	Oil and Grease	Repair and Maint.	Servicing	Cost per Hour	Hours Used
<u>Group I 7 - 11 Rated D.H.P.</u>								
233	\$ -	\$ -	\$.17	\$.05	\$.01	\$.02	\$.25	364
228	.21	.01	.31	.07	.02	.03	.65	191
228	.18	.05	.33	.05	.04	.05	.70	211
244	.35	.01	.35	.03	*	.02	.76	311
242	.32	.12	.42	.02	-	.02	.90	236
Av.	.20	.03	.30	.05	.02	.03	.63	263
<u>Group II 14 - 22 Rated D.H.P.</u>								
232	.07	*	.22	.01	.04	.01	.35	294
240	-	-	.28	.01	.05	.01	.35	512
224	-	-	.33	.11	.03	-	.47	319
233	.09	.02	.25	.05	.06	-	.47	161
529	-	.02	.45	.02	.04	.01	.54	715
629	-	-	.36	.03	.13	.04	.56	678
429	.16	.03	.32	.01	.05	.01	.58	624
323	.16	.04	.29	.01	.08	.03	.61	424
427	.09	.04	.34	.05	.07	.02	.61	1072
332	.22	.11	.18	.01	.08	.01	.61	560
229	.17	.05	.18	.02	.21	.01	.65	860
533	.12	.08	.28	.10	.04	.03	.65	1019
243	.17	.04	.23	.02	.18	.01	.65	696
340	.16	.03	.37	-	.11	*	.67	825
327	.25	.11	.30	.03	.01	.01	.71	442
334	.03	.01	.51	.04	.11	.01	.71	397
226	.18	.08	.37	.05	.02	.02	.72	604
240	.28	.08	.23	.01	.15	*	.75	480
344	.30	.15	.27	-	.03	.02	.77	390
242	.09	.02	.56	.01	.07	.03	.78	924
340	.33	.09	.37	-	-	-	.79	92
333	-	-	.20	.02	.56	.01	.79	290
629	.28	.13	.35	.03	-	.04	.83	434
433	.10	.02	.39	.09	.16	.08	.84	681
226	.14	.02	.37	.05	.26	.07	.91	536
244	.35	.11	.42	.03	.01	*	.92	466
227	.20	.02	.50	.04	.17	.01	.94	502
329	.21	.01	.50	.01	.21	-	.94	464
429	.55	.09	.32	-	-	-	.96	101
629	.17	.05	.35	.03	.23	.13	.96	658
529	.43	.16	.28	.02	.08	.01	.98	405
533	.54	.19	.22	.02	.01	.01	.99	334
228	.41	.19	.33	.03	.03	.03	1.02	523
332	.24	.01	.33	.02	.30	.12	1.02	247

*less than 1/2 of 1 cent

COST PER HOUR OF OPERATING TRACTORS

Farm No.	Depre- cia- tion	Inter- est @ 5%	Fuel	Oil and Grease	Repair and Maint.	Servi- cing	Cost per Hour	Hours Used
<u>Group II 14 - 22 Rated D.H.P. (con't)</u>								
232	\$.50	\$.14	\$.23	\$.02	\$.13	\$.02	\$1.04	200
237	.28	.13	.47	.03	.13	.02	1.06	774
427	.33	.09	.34	.16	.06	.10	1.08	160
432	.28	.11	.55	.01	.22	.01	1.18	377
233	.16	.02	.34	.05	.57	.04	1.18	615
324	-	.09	.51	.07	.57	.05	1.29	32
324	.39	.13	.68	.06	.06	.01	1.33	411
235	.74	.11	.31	.05	.11	.06	1.38	468
237	.36	.01	.46	.03	.53	.07	1.46	148
235	-	-	.54	.06	.76	.21	1.57	74
Av.	.23	.07	.42	.04	.15	.04	.95	402
<u>Group III 25 - 27 Rated D.H.P.</u>								
323	.11	.03	.39	.01	.10	.05	.69	781
244	.25	.09	.31	.04	.01	.01	.71	279
432	.21	.10	.30	.02	.10	-	.73	526
429	.18	.06	.43	.01	.07	.01	.76	719
223	.21	.06	.42	.03	.17	.02	.91	952
323	.23	.09	.39	.01	.16	.03	.91	1171
533	.37	.08	.43	.02	.02	.02	.94	383
237	.31	.01	.47	.03	.17	.02	1.01	370
344	.26	.11	.47	*	.17	.01	1.02	588
240	.30	.13	.49	.01	.15	*	1.08	764
235	.27	.01	.68	.05	.10	.03	1.14	566
333	.49	.18	.41	.01	.08	.01	1.18	461
334	.37	.16	.68	.04	.20	.03	1.48	588
244	.42	.12	.69	.03	.22	.03	1.51	481
432	.90	.29	.39	*	.07	-	1.65	167
327	.87	.28	.61	.03	*	-	1.79	212
529	.81	.39	.57	.01	.03	.08	1.89	267
Av.	.31	.10	.47	.02	.13	.02	1.05	545
<u>Group IV 30 - 32 Rated D.H.P.</u>								
327	.39	.12	.60	.03	.02	.01	1.17	519
239	.17	.07	.65	.05	.21	.08	1.23	780
244	-	-	.47	.03	-	1.07	1.57	128
Av.	.23	.09	.62	.04	.12	.14	1.24	475

*less than 1/2 of 1 cent

COST OF OPERATING GENERAL CROP MACHINERY

Farm No.	Depre- cia- tion	Repair and Upkeep	Servi- cing	In- ter- est	Total Cost	Acres of Use	Cost per Acre
226	\$28	\$ 5	\$17	\$ 6	\$56	163.8	\$.34
239	21	21	17	9	68	150.3	.45
332	22	18	13	4	57	115.4	.49
327	79	7	1	58	145	258.5	.56
323	129	79	39	24	271	414.3	.65
235	35	58	19	73	185	273.4	.65
234	71	53	-	28	152	228.7	.66
333	32	22	8	17	79	114.6	.69
223	99	13	18	31	161	224.1	.72
243	60	20	4	21	105	146.3	.72
237	102	67	31	17	217	284.3	.76
329	33	9	2	14	58	71.2	.81
529	137	39	12	49	237	271.2	.87
433	86	7	12	17	122	130.0	.94
244	171	42	110	62	385	424.7	.95
344	59	30	13	29	131	129.0	1.03
232	42	42	1	17	102	96.9	1.05
242	95	-	38	22	155	146.3	1.06
228	46	33	34	31	144	128.5	1.12
224	95	30	41	31	197	168.0	1.17
629	87	73	62	38	260	220.1	1.18
633	59	100	27	50	236	200.6	1.18
429	95	45	59	41	240	192.2	1.25
227	94	28	6	32	160	118.2	1.35
324	76	65	5	16	162	112.6	1.44
334	97	91	58	43	289	162.5	1.78
340	51	16	65	21	153	79.5	1.92
233	133	59	43	44	279	116.7	2.39
427	130	89	45	43	307	114.0	2.69
432	261	80	38	62	441	160.5	2.75
229	197	57	34	30	318	95.3	3.34
240	224	24	179	93	520	154.9	3.35
533	95	113	77	29	314	86.0	3.65
Av.	92	44	34	33	203	174.3	1.17

COST OF OPERATING TILLAGE MACHINERY

Farm No.	Depre- cia- tion	Repair and Upkeep	Servi- cing	In- ter- est	Total Cost	Acres of Use	Cost per Acre
324	\$10	\$ 8	\$ -	\$-	\$18	73.9	\$.24
227	23	15	1	9	48	98.1	.49
243	35	12	8	7	62	122.8	.50
223	66	4	17	19	106	206.6	.51
327	85	1	5	54	145	256.5	.56
242	44	4	4	17	69	116.4	.59
333	18	16	13	9	56	92.4	.61
235	38	55	17	27	137	214.3	.64
226	47	15	19	10	91	140.1	.65
323	127	54	20	56	257	348.6	.74
429	44	45	5	26	120	155.3	.77
237	117	17	13	39	186	235.7	.79
529	77	46	32	16	171	210.8	.81
244	111	100	51	34	296	354.5	.83
228	64	5	13	24	106	124.4	.85
433	68	17	-	15	100	110.6	.90
234	78	65	-	22	165	174.3	.95
329	30	17	-	6	53	50.3	1.05
229	34	31	5	7	77	66.5	1.16
224	64	26	30	12	132	78.0	1.19
232	33	29	1	16	79	63.5	1.24
239	32	93	27	14	166	126.4	1.31
427	56	29	29	13	127	90.7	1.40
334	82	89	10	18	199	139.1	1.43
240	95	15	21	50	181	116.6	1.55
633	109	15	17	47	188	118.9	1.58
533	7	66	6	2	81	47.0	1.72
340	48	29	5	10	92	48.9	1.88
344	73	23	6	32	134	70.5	1.90
233	71	20	37	16	144	73.3	1.96
332	73	51	24	32	180	79.8	2.25
629	85	100	148	29	362	133.6	2.71
432	229	96	13	77	415	98.3	4.22
66	37	18	23	144	134.4	1.07	

COST OF OPERATING HAY MOWERS AND HAY RAKES

Farm No.	Depre- cia- tion	Repair and Maint.	Ser- vi- cing	In- ter- est	Total	Acres over	Cost per A. over
239	\$ -	\$ -	\$ 7	\$ -	\$ 7	68.0	\$.10
232	11	-	1	8	20	181.4	.11
633	41	3	3	22	69	352.4	.20
234	21	2	-	7	30	151.0	.20
427	-	-	21	-	21	85.2	.25
233	8	12	18	4	42	162.8	.26
333	-	12	15	-	27	105.1	.26
329	8	6	3	2	19	71.6	.27
432	14	20	3	8	45	162.5	.28
629	40	20	31	12	103	346.0	.30
429	31	15	8	14	68	186.2	.36
228	23	2	8	14	47	103.4	.45
324	40	3	-	10	53	112.4	.47
433	26	-	1	11	38	77.8	.49
237	51	56	35	25	167	302.9	.55
242	18	25	10	4	57	99.0	.57
327	21	-	12	10	43	66.6	.64
229	45	5	18	10	78	118.6	.66
529	31	53	41	14	139	206.6	.67
224	31	27	12	4	74	105.2	.70
334	35	17	1	14	67	93.6	.72
533	23	10	14	12	59	78.0	.76
235	51	46	19	14	130	171.2	.76
240	53	20	14	33	120	148.2	.81
323	70	11	9	13	103	119.6	.86
244	47	44	14	17	122	140.4	.87
226	36	5	25	10	76	82.8	.92
227	40	-	5	24	69	67.8	1.02
243	34	-	-	14	48	47.0	1.02
340	26	62	3	12	103	96.4	1.07
332	41	9	18	12	80	61.2	1.31
344	49	7	3	24	83	63.1	1.32
223	55	20	14	13	102	70.0	1.46
Av.	31	15	12	12	70	130.4	.54

COST OF OPERATING HAY LOADERS, SWEEP
RAKES AND OTHER GENERAL HAY HARVEST MACHINES

Farm No.	Depre- cia- tion	Repair and Maint.	Ser- vi- cing	In- ter- est	Total	Acres over	Cost per A. over
333	\$ 5	\$ -	\$ -	1	\$ 6	59.6	\$.10
235	10	-	4	1	15	45.0	.33
629	-	-	18	-	18	37.0	.49
224	37	-	-	1	38	78.0	.50
243	10	-	1	2	13	26.6	.50
239	-	-	3	-	3	5.0	.60
229	11	-	-	1	12	17.0	.71
334	10	-	-	0	10	13.5	.74
242	13	-	2	4	19	23.5	.81
228	7	-	10	4	21	23.3	.90
233	-	-	19	-	19	20.1	.94
226	20	-	10	7	37	31.6	1.17
227	20	-	6	15	41	31.4	1.30
332	21	-	-	10	31	23.1	1.34
234	30	-	-	11	41	26.5	1.54
323	69	7	16	20	112	47.8	2.34
244	19	2	-	6	27	10.2	2.65
232	16	6	-	4	26	4.0	6.50
Av.	16	1	5	5	27	29.1	.93

COST OF OPERATING CORN PLANTER AND CULTIVATOR

Farm No.	Depre- cia- tion	Repair and Upkeep	Servi- cing	In- ter- est	Total Cost	Acres Crop*	Cost per Acre
233	\$ 6	\$1	\$8	\$ 4	\$19	42.0	\$.10
327	50	-	2	26	78	145.9	.53
243	30	-	7	7	44	78.5	.56
235	40	6	25	12	83	134.0	.62
333	12	2	6	9	29	45.4	.64
237	69	-	9	22	100	141.6	.71
239	30	-	9	13	52	72.5	.72
323	46	87	10	13	156	212.9	.73
229	15	-	8	3	26	35.8	.73
242	21	12	14	13	60	82.5	.73
234	37	4	-	13	54	68.8	.78
324	38	14	4	9	65	73.9	.88
226	18	-	17	8	43	48.9	.88
429	35	5	9	12	61	68.5	.89
340	17	4	-	5	26	24.9	1.04
332	14	3	5	2	24	22.3	1.08
529	67	8	27	41	143	125.8	1.14
432	51	5	4	15	75	65.9	1.14
224	45	-	10	6	61	49.2	1.24
227	27	13	15	4	59	44.4	1.33
433	36	10	13	10	69	50.6	1.36
344	37	3	6	16	62	45.1	1.37
533	13	-	2	6	21	15.2	1.38
232	18	2	9	1	30	20.5	1.46
244	128	19	103	45	295	185.2	1.50
633	53	6	7	20	86	56.4	1.52
240	43	29	30	24	126	72.6	1.73
629	60	20	28	37	145	77.9	1.86
228	39	3	22	16	80	41.2	1.94
223	174	4	8	49	235	109.3	2.15
329	8	69	-	2	79	31.0	2.55
427	50	71	39	15	175	46.1	3.80
Av.	41	13	14	15	83	73.0	1.14

* refers all row crops

COST OF OPERATING GRAIN DRILL AND FANNING MILL

Farm No.	Depre- cia- tion	Repair and upkeep	Servi- cing	In- ter- est	Total Cost	Acres Crop*	Cost per Acre
323	\$20	\$5	\$ 1	\$ 2	\$28	135.7	\$.21
244	14	5	17	5	41	169.3	.24
332	9	-	-	8	17	61.7	.28
429	15	5	-	12	32	86.8	.37
232	12	-	-	5	17	43.0	.40
223	30	-	1	10	41	97.3	.42
226	22	2	12	10	46	91.2	.50
242	2	4	2	7	15	28.9	.52
529	12	13	20	3	48	84.4	.57
235	11	6	19	1	37	80.3	.64
224	13	-	4	1	18	27.0	.67
327	31	-	4	30	65	91.6	.71
234	46	-	-	34	80	105.5	.76
227	24	-	1	17	42	53.7	.78
433	33	-	3	14	50	60.0	.83
340	10	7	-	6	23	24.0	.96
228	18	-	14	17	49	50.1	.98
334	52	-	-	22	74	68.3	1.08
237	77	-	2	28	107	94.1	1.14
432	28	12	1	6	47	28.3	1.66
633	56	17	10	27	110	62.5	1.76
629	47	20	11	22	100	55.7	1.80
329	25	4	2	6	37	19.3	1.91
233	52	1	-	19	72	31.3	2.30
333	75	-	9	35	119	47.0	2.53
Av.	29	4	5	14	52	67.9	.77

* refers to all small grains and peas

COST OF OPERATING GRAIN BINDERS

Farm No.	Year Bought	Cost	Depre- cia- tion	Repairs and Upkeep	Servi- cing	Inter- est	Total	Acres Used	Cost per Acre
333	1944	\$40	\$ -	\$4	\$ 9	\$ -	\$13	47.0	\$.28
332	-	-	-	4	14	-	18	54.7	.33
228	1937	80	5	2	10	1	18	50.1	.34
529	1941	450	30	8	11	8	57	102.4	.56
234	1948	674	45	8	-	28	81	105.5	.77
633	1946	375	47	12	-	7	66	62.5	1.06
533	1950	150	15	-	48	7	70	31.8	2.20
224	1942	385	25	58	10	7	100	27.0	3.70
Av.	-	269	21	12	13	7	53	60.1	.88

COST OF OPERATING STATIONARY THRESHERS

Farm No.	Year Bought	Cost	Depre- cia- tion	Repairs and Upkeep	Servi- cing	Inter- est	Total	Acres Used	Cost per Acre
228	1944	\$100	\$10	\$ -	\$1	\$ 2	\$13	50.1	\$.26
332	1945	128	12	-	10	3	25	54.7	.46
333	1944	125	13	-	10	2	25	47.0	.53
234	1948	533	107	24	-	11	142	105.5	1.34
240	1951	445	30	8	10	22	70	44.0	1.59
633	1947	880	88	-	6	31	125	62.5	2.00
224	1944	771	55	17	1	17	90	27.0	3.33
Av.		426	45	7	5	13	70	55.8	1.25

COST OF OPERATING COMBINES

Farm No.	Size ft.	Year Bought	Cost	Depre- cia- tion	Repair and Upkeep	Servi- cing	Inter- est	Gas	Total	Acres Used			Cost per Acre
										Own Farm	Other Farms	Total	
<u>Combines 5' - 6'</u>													
233	6	1950	\$ 120	\$ 20	\$ -	\$24	\$ 5	\$ -	\$ 49	31.3	20.0	51.3	\$.96
327	5	1949	1697	114	6	16	80	-	216	181.7	-	181.7	1.19
243	6	1946	350	29	4	20	12	-	65	44.3	-	44.3	1.47
432	6	1948	425	42	25	3	14	6	90	28.3	30.0	58.3	1.54
429	6	1947	1586	100	39	17	58	-	214	86.8	24.0	110.8	1.93
334	6	1948	1300	130	-	20	46	10	206	68.6	30.0	98.6	2.09
237	6	1950	1555	155	78	33	70	-	336	125.6	40.0	165.6	2.68
226	6	1946	1100	110	54	76	27	-	267	91.2	-	91.2	2.95
242	5	1950	1260	120	3	-	60	-	183	42.4	-	42.4	3.17
529	6	1950	2000	200	55	97	95	-	447	92.4	18.0	110.4	4.05
232	6	1948	1714	160	59	31	64	-	314	20.7	30.0	50.7	6.19
Av.			1191	107	29	31	48	2	217	73.9	17.5	91.4	2.37
<u>Combines 8' - 12'</u>													
433	12	1951	1125	112	1	24	30	17	184	60.0	19.0	79.0	2.49
244	12	1946	2872	205	108	169	103	53	637	205.5	-	205.5	3.10
323	8	1951	3100	310	59	195	155	23	742	221.1	-	221.1	3.36
427	12	1951	1125	150	32	9	50	13	254	44.6	19.0	63.6	3.99
629	12	1941	1701	181	200	44	12	12	449	55.7	-	55.7	8.06
Av.	-	-	1985	191	80	88	70	24	453	117.4	7.6	125.0	3.63

COST OF OPERATING SWATHERS

Farm No.	Year Bought	Cost	Depre- cia- tion	Repair and Upkeep	Servi- cing	Inter- est	Gas	Total	Acres Used			Cost per Acre
									Own Farm	Other Farms	Total	
323	1938	\$358	\$ -	\$11	\$16	\$ -	\$ -	\$27	135.7	-	135.7	\$.20
226	1948	35	5	4	13	1	-	23	91.2	-	91.2	.25
232	-	-	-	-	6	-	-	6	20.7	-	20.7	.29
235	-	-	-	-	28	-	-	28	80.3	-	80.3	.35
323	-	-	-	17	18	-	-	35	97.3	-	97.3	.36
237	1942	350	29	-	2	4	-	35	94.1	-	94.1	.37
244	1945	360	20	6	32	12	-	70	169.3	-	169.3	.41
432	1949	28	5	5	1	1	-	12	28.3	-	28.3	.42
233	1941	175	9	5	21	4	-	39	31.3	20.0	51.3	.76
227	1948	402	27	-	4	16	-	47	53.7	-	53.7	.87
340	1951	540	54	25	16	14	-	109	24.0	86.8	110.8	.98
240	1950	30	?	40	-	2	-	44	44.0	-	44.0	1.00
629	1949	120	20	30	34	5	-	89	55.7	-	55.7	1.60
Av.	-	184	13	11	15	4	-	43	71.2	8.2	79.4	.55

COST OF OPERATING FIELD CHOPPERS AND BALERS

Farm No.	Year Bought	Cost	Depre- cia- tion	Repair and Upkeep	Servi- cing	Inter- est	Gaso- line	Total	Acres Used			Cost per Acre
									Own Farm	Other Farms	Total	
<u>Field Choppers and Blowers</u>												
237	-	\$-	\$-	\$ -	\$29	\$ -	\$12	\$ 41	47.7	-	47.7	\$.86
244	1947	118	20	-	87	-	-	107	110.5	-	110.5	.96
533	1948	3000	300	169	84	105	50	708	39.0	260.0	299.0	2.37
233	1947	282	50	68	9	4	-	131	53.3	-	53.3	2.46
340	1951	945	88	10	3	30	-	131	53.2	-	53.2	2.46
429	1951	1034	102	20	44	33	-	199	79.7	-	79.7	2.66
229	1950	362	70	1	-	16	5	92	30.0	-	30.0	3.07
228	1949	350	35	-	6	14	-	55	13.3	-	13.3	4.14
240	1950	2560	256	46	86	116	17	521	103.4	-	103.4	5.04
327	1949	1820	91	14	67	72	7	251	40.4	-	40.4	6.21
224	1951	2100	210	-	16	100	6	332	36.9	-	36.9	9.00
432	1951	3326	427	24	45	9	10	515	49.2	-	49.2	10.46
Av.	-	1325	137	29	40	42	9	257	54.7	21.7	76.4	3.36
<u>Balers</u>												
433	1951	1200	240	183	76	30	78	607	60.9	460.0	520.9	1.16
344	1948	2320	232	27	27	93	19	398	84.0	155.0	239.0	1.66
529	1948	1380	138	14	19	53	-	224	117.1	-	117.1	1.91
Av.	-	1633	203	74	41	59	32	409	87.33	205.0	292.33	1.40

COST OF OPERATING CORN PICKERS

Farm No.	Year Bought	Cost	Depre- cia- tion	Repair and Upkeep	Ser- vi- cing	In- ter- est	Total	Acres Used			Cost per Acre
								Own Farm	Other Farms	Total	
<u>One-row pickers</u>											
329	1946	\$135	\$20	\$ 7	\$-	\$ 2	\$29	24.5	-	24.5	\$1.18
533	1950	35	12	-	7	1	20	15.2	-	15.2	1.32
344	1951	625	15	51	17	10	93	39.6	30.0	69.6	1.34
228	1951	1000	25	-	12	12	49	26.0	-	26.0	1.88
242	1947	710	100	3	6	15	124	50.2	-	50.2	2.47
234	1947	775	155	14	-	14	183	62.8	-	62.8	2.91
224	1949	700	70	9	1	26	106	35.0	-	35.0	3.03
226	1950	810	81	2	25	36	144	42.9	-	42.9	3.35
233	1949	892	90	25	7	39	161	40.7	-	40.7	3.95
240	1947	788	97	11	17	39	164	38.5	-	38.5	4.26
Av.	-	647	67	12	9	19	107	37.5	3.0	40.5	2.65
<u>Two-row pickers</u>											
237	1950	200	20	24	31	10	85	96.9	-	96.9	.88
433	1950	766	152	4	26	38	220	50.6	160.0	210.6	1.04
223	1951	1560	160	1	15	35	211	57.8	125.0	182.8	1.15
429	1945	955	86	85	106	22	299	63.5	184.0	247.5	1.21
323	1942	820	82	44	62	4	192	127.5	-	127.5	1.50
334	1951	625	62	49	10	25	146	70.8	-	70.8	2.06
235	1947	1200	200	12	24	24	260	120.2	-	120.2	2.16
529	1947	2400	240	-	31	83	354	121.3	25.0	146.3	2.42
227	1947	1081	57	14	15	31	117	41.4	-	41.4	2.83
432	1948	876	160	-	2	20	182	52.7	-	52.7	3.45
244	1950	1600	200	10	40	70	320	85.5	-	85.5	3.74
629	1941	650	65	200	-	4	269	63.0	-	63.0	4.27
327	1950	1235	82	120	10	58	270	56.8	-	56.8	4.75
Av.	-	1082	120	43	29	33	225	77.5	38.0	115.5	1.95

COST OF OPERATING PORTABLE ELEVATORS

Farm No.	Year Bought	Cost	Depre- cia- tion	Repair and Upkeep	Servi- cing	Inter- est	Total	Acres*	Cost per Acre
242	1945	\$121	\$ 10	\$ 1	\$ 2	\$ 3	\$ 16	92.6	\$.17
228	1945	140	10	-	4	5	19	102.9	.18
323	1939	405	27	5	46	4	82	348.6	.24
237	1942	310	21	12	20	6	59	222.5	.26
223	1946	325	40	-	3	8	51	186.6	.27
429	1949	300	30	5	-	12	47	150.3	.31
244	1951	660	60	-	11	25	96	291.0	.32
327	1950	654	30	13	10	30	83	247.5	.34
226	1946	225	22	-	10	6	38	109.7	.35
235	1948	500	25	7	24	22	78	214.3	.36
234	1950	468	47	-	-	23	70	168.3	.42
529	1949	495	35	-	39	21	95	210.8	.45
334	1949	525	53	20	-	24	97	139.1	.70
233	1950	363	30	6	1	18	55	72.0	.76
229	1947	277	30	6	2	7	45	56.5	.80
633	1951	615	62	16	10	15	103	118.9	.86
340	1949	270	18	-	8	12	38	43.9	.86
240	1949	430	35	-	27	17	79	87.3	.90
224	1948	552	37	-	4	22	63	63.0	1.00
427	1949	542	54	18	2	22	96	90.7	1.06
344	1951	598	32	2	15	20	69	65.0	1.06
629	-	-	-	-	114	-	114	103.7	1.10
432	1947	370	42	5	40	14	101	81.0	1.25
Av.		398	32	5	17	15	69	140.7	.49

*Acres of small grain, corn for grain, and soybeans for grain

COST OF HORSE WORK - PER FARM

Farm No. of No. Horses	Man Hours	Feed	Labor	Shel- ter	Equip.	Depr.	In- ter- est	Total	Hours Worked	Cost per hour	
224	2.0	115	\$ 73	\$ 92	\$ 7	\$ 5	\$ 4	\$ 1	\$182	853	\$.21
234	4.0	-	241	-	50	43	40	18	392	1412	.25
240	.6	26	39	21	-	1	-	2	63	250	.25
633	2.0	161	198	129	17	-	20	4	368	1360	.27
228	2.0	91	37	73	6	-	20	5	141	403	.35
332	2.0	56	50	45	5	-	-	6	106	293	.36
333	3.0	214	334	171	-	-	40	8	553	1290	.43
323	3.0	148	259	118	58	-	-	5	440	627	.70
533	2.0	72	274	58	34	14	-	6	386	378	1.02
Av.	2.3	98	168	78	20	7	14	6	293	763	.38

COST OF OPERATING CROP SPRAYERS

Farm No.	Year Bought	Cost	Depre- cia- tion	Repair and Upkeep	Ser- vi- cing	In- ter- est	Total Operating Cost
239	-	\$-	\$-	\$-	\$11	\$-	\$11
429	1948	61	6	5	-	2	13
427	-	-	-	5	9	-	14
237	-	-	-	12	3	-	15
327	1951	200	10	-	2	10	22
232	1948	178	18	-	-	6	24
433	1950	153	15	-	4	7	26
333	1948	188	20	-	-	6	26
432	1949	235	30	-	-	8	38
227	1949	165	33	-	-	5	38
234	1950	215	22	8	-	10	40
226	1948	200	40	-	-	4	44
334	-	-	40	-	-	6	46
529	1950	102	10	15	24	5	54
224	1950	275	28	15	1	12	56
235	1948	400	40	8	8	-	56
633	1948	300	60	-	-	6	66
323	1949	460	46	17	4	18	85
244	-	-	-	45	49	-	94
Av.		165	22	7	6	6	41

Summary of Machinery Costs and Custom work Hired

Farm No.	General Machinery	Tillage Machinery	Hay Mower and Rake	Hay Loader Sweep Rakes	Corn Planter and Cult.	Grain Drill and Eng.-mill	Grain Binder	Thresher	Swath-er	Com-bine
239	\$ 68	\$166	\$ 7	\$ 3	\$52	\$ -	\$ -	\$ -	\$ 1	\$ 2
243	105	62	48	13	44	1	-	-	5	65
324	162	18	53	1	65	-	-	-	-	-
333	79	56	27	6	29	119	13	25	-	-
329	58	53	19	0	79	37	9	-	-	-
332	57	180	80	31	24	17	18	25	-	-
235	185	137	130	15	83	37	-	-	28	-
234	152	165	30	41	54	80	81	142	-	-
223	161	106	102	8	235	41	-	-	35	125
242	155	69	57	19	60	15	22	-	-	183
237	217	186	167	-	100	107	33	-	35	336
327	145	145	43	-	78	65	4	-	-	216
323	271	257	103	112	156	28	-	-	27	742
227	160	48	69	41	59	42	-	-	47	-
228	144	106	47	21	80	49	18	13	-	-
633	236	188	69	14	86	110	66	125	-	-
244	385	296	122	27	295	41	-	58	70	637
429	240	120	68	-	61	32	-	-	14	214
232	102	79	20	26	30	17	-	-	6	314
334	289	199	67	10	-	74	7	-	-	206
226	56	91	76	37	43	46	-	-	23	267
229	318	77	78	12	26	-	-	-	1	-
629	260	362	103	18	145	100	-	-	89	449
233	279	144	42	19	19	72	-	-	39	49
529	237	171	139	72	143	48	57	105	-	447
344	131	134	83	-	62	1	7	1	-	-
427	307	127	21	60	175	-	1	-	9	254
224	197	132	74	38	61	18	100	90	-	-
340	153	92	103	15	26	23	-	-	109	-
433	122	100	38	-	69	50	-	-	5	184
240	520	181	120	-	126	6	-	70	44	-
432	441	415	45	-	75	47	-	-	12	90
533	314	81	59	-	21	-	70	-	-	-
Av.	203	144	70	20	81	40	15	20	18	145

Summary of Machinery Costs and Custom work Hired (cont'd.)

Field Chop- per	Baler	Corn Picker	Port. Elev- ator	Crop Spray- er	Total + Crop Mach- inery	Cost per Acre*	crop custom work	
							Total	per/Acre
\$ -	\$ -	\$ 5	\$ -	\$11	\$315	\$2.09	\$170	\$1.13
-	-	8	6	-	357	2.68	48	.36
-	-	-	4	-	303	2.69	767	6.81
-	-	-	-	26	380	3.34	125	1.10
-	-	29	-	-	284	3.65	359	4.61
-	-	-	-	-	432	3.73	342	2.95
-	-	260	78	56	1009	3.88	-	-
-	-	183	70	40	1038	4.49	-	-
-	-	211	51	-	1075	4.78	565	2.51
-	-	124	16	-	720	4.81	260	1.74
41	-	85	59	15	1381	4.88	170	.60
251	-	270	83	22	1322	5.08	115	.44
-	-	192	82	85	2055	5.24	289	.74
-	-	117	-	38	621	5.25	233	1.97
55	-	49	19	-	601	5.44	151	1.37
-	-	2	103	66	1065	5.58	482	2.52
107	-	320	96	94	2548	5.89	197	.46
199	-	299	47	13	1307	6.09	-	-
-	-	-	-	24	618	6.38	390	4.02
-	-	146	97	46	1141	7.02	208	1.28
363	-	144	38	44	1228	7.27	75	.44
92	-	-	45	-	649	7.77	405	4.85
18	24	269	114	-	1951	8.00	-	-
131	-	161	55	5	1015	8.25	-	-
-	224	354	95	54	2146	8.49	-	-
-	398	93	69	-	979	9.24	128	1.21
-	-	10	96	14	1074	9.76	97	.88
332	-	106	63	56	1267	9.80	534	4.13
131	-	-	38	-	690	10.70	198	3.07
-	607	220	5	26	1426	11.23	4	.03
521	-	164	79	-	1831	11.87	-	-
515	-	182	101	38	1961	14.30	337	2.48
708	-	20	-	-	1273	14.38	102	1.15
105	38	122	49	23	1093	6.42	205	1.20

in this farm
* per crop acre^v exclusive of pasture

+ includes cost of doing custom work for others.

SOURCE AND USE OF LABOR BY TYPE OF FARM

Farm No.	Source of Labor					Crops							
	Operator	Family	Hired	Exch. grat.	Total hours	Grain	Corn	Soy-beans	Hay	Other crops	Haul man.	Fall work	Total crops
<u>Emphasis on Dairy Cattle</u>													
329	2516	-	249	-	2765	108	114	-	123	23	66	21	455
227	2799	495	99	96	3489	216	227	-	108	51	205	88	895
223	3122	128	189	207	3646	285	532	90	58	55	58	63	1141
429	2978	1315	407	271	4971	244	384	-	475	71	75	38	1287
242	2670	42	2237	55	5004	162	492	94	223	82	114	36	1203
327	2207	2815	-	-	5022	400	303	380	154	84	44	59	1424
226	3298	1452	432	43	5225	450	445	-	145	142	102	96	1380
232	2925	895	1367	43	5230	144	115	51	266	95	-	24	695
324	2406	250	2723	9	5388	-	319	-	140	23	96	-	578
229	3203	413	1626	162	5404	144	270	26	204	60	188	64	956
228	4567	54	553	276	5450	387	382	-	278	85	160	60	1352
432	2615	845	2013	46	5519	125	378	-	321	17	145	61	1047
340	3783	1694	64	161	5702	126	179	-	256	17	138	15	731
332	5463	-	102	144	5709	441	203	-	266	85	199	103	1297
233	3350	792	1614	291	6047	251	418	-	226	45	149	41	1130
533	3966	494	2244	263	6967	291	153	-	386	117	168	41	1156
333	3262	328	3260	152	7002	355	391	-	218	119	233	32	1348
224	3631	8	3485	44	7168	229	420	-	366	56	242	35	1348
633	3647	75	3197	452	7371	356	337	-	370	160	351	57	1631
237	3348	10	4011	321	7690	345	331	89	400	224	160	102	1651
344	2413	3201	2148	91	7853	188	369	-	229	35	156	53	1030
240	6481	333	3653	-	10467	399	835	-	383	124	390	56	2187
Av.	3393	711	1622	142	5868	257	345	33	254	81	156	52	1178
<u>Emphasis on Feeder Cattle and Hogs</u>													
243	1765	179	6	11	1961	94	176	67	24	54	46	162	623
433	2502	74	205	138	2919	143	172	-	119	45	91	104	674
334	2574	99	515	122	3310	86	290	138	154	68	152	142	1030
427	3344	122	193	172	3831	120	222	-	233	97	163	78	913
239	3750	94	520	620	4984	201	450	-	190	72	130	51	1094
235	3018	109	2501	73	5701	319	521	14	297	72	172	81	1476
529	3041	2685	484	73	6283	330	586	-	497	170	239	62	1884
629	5525	44	640	204	6413	296	531	-	472	176	228	89	1792
323	4008	384	2667	38	7097	638	681	264	280	131	119	218	2331
244	2306	209	5542	351	8408	739	1015	177	287	656	126	216	3216
Av.	3184	400	1327	180	5091	297	464	66	255	154	147	120	1503

SOURCE AND USE OF LABOR BY TYPE OF FARM (CONT.)

Livestock							Miscellaneous					
Dairy cattle	Feeder cattle	Hogs	Chick-ens	Sheep	Hor-ses	Total	Bldg. fences	Mach. equip.	Pow-er	Misc.	Off farm	Total
<u>Emphasis on Dairy Cattle</u>												
1181	-	217	273	-	-	1671	356	12	-	33	238	639
1236	-	509	457	-	-	2202	73	72	8	81	158	392
1162	-	576	-	-	-	1738	241	126	34	138	228	767
1919	-	89	166	164	-	2338	191	481	38	216	420	1346
2364	-	192	651	-	-	3207	121	130	49	160	134	594
1472	-	399	369	243	-	2483	441	159	24	491	-	1115
1473	-	-	665	-	-	2138	461	308	96	723	118	1706
2149	-	-	759	-	38	2946	995	66	11	409	108	1589
2903	-	109	1018	-	-	4030	488	27	9	140	116	780
1740	25	860	525	-	-	3150	365	138	12	505	278	1298
2415	-	469	-	-	92	2976	165	171	58	306	422	1122
3102	-	748	-	-	-	3850	166	205	5	220	26	622
2798	-	411	714	-	-	3923	132	148	11	195	562	1048
2330	-	84	720	-	56	3190	301	107	49	354	411	1222
2118	-	519	342	-	1	2980	906	254	68	629	80	1937
2779	-	251	486	61	72	3649	271	294	57	364	1176	2162
3134	-	732	482	-	214	4562	217	135	14	543	183	1092
3746	-	555	492	-	116	4909	316	156	54	320	65	911
2685	-	830	556	-	161	4232	364	131	28	260	725	1508
4089	-	767	5	-	-	4861	207	272	53	445	201	1178
4620	-	510	644	-	2	5776	299	115	19	315	299	1047
4351	344	1391	598	-	26	6710	628	677	16	244	5	1570
2535	17	465	451	21	35	3524	350	190	33	322	271	1166
<u>Emphasis on Feeder Cattle and Hogs</u>												
-	-	515	157	-	-	672	116	143	32	252	123	666
-	530	444	176	-	-	1150	121	205	120	133	516	1095
-	442	726	260	1	-	1429	211	103	39	329	169	851
-	486	779	262	-	-	1527	622	213	62	228	266	1391
511	555	598	201	-	-	1865	839	122	93	380	591	2025
1011	264	919	413	281	4	2892	406	200	119	515	93	1333
329	696	1112	177	-	-	2314	829	539	50	566	101	2085
176	484	1040	97	-	-	1797	1182	588	145	471	438	2824
479	588	986	249	390	143	2835	265	560	149	941	16	1931
346	1250	628	232	-	3	2459	830	878	207	512	307	2734
285	530	775	222	67	15	1894	542	355	102	433	262	1694

SUMMARY OF TRACTOR HOURS BY ENTERPRISE

Farm No.	Live stock	Crops							Bldg. Mach. equip	Work off farm	Total hours
		Grain	Corn	Soy-beans	Other Hay	Haul crops	Fall man. work	Total			

Farms with Emphasis on Dairy Cattle

232	39	133	66	-	128	22	-	24	373	37	11	34	494
329	32	108	111	-	112	-	62	21	414	-	5	45	496
324	31	-	304	-	93	5	82	-	484	2	5	1	523
227	17	112	187	-	70	15	55	88	527	4	11	29	588
633	71	135	233	-	188	9	15	57	638	4	4	18	735
332	23	116	127	-	165	34	66	103	611	8	68	108	818
333	81	214	244	-	58	15	10	33	574	10	38	137	840
224	55	114	376	-	184	14	34	35	757	68	20	14	914
344	100	118	278	-	129	13	127	52	717	5	10	149	981
432	108	101	308	-	224	16	104	60	813	7	48	8	984
229	94	80	197	21	117	29	176	64	684	7	52	149	986
228	78	144	238	-	98	24	93	60	657	22	38	197	992
223	53	216	348	89	37	20	44	63	817	23	16	106	1015
340	73	112	198	-	225	7	118	15	675	5	14	332	1099
226	50	372	350	-	81	25	86	96	1010	26	33	21	1140
327	14	296	267	379	62	29	38	59	1130	7	22	-	1173
242	77	136	537	89	137	44	82	36	1061	2	10	45	1195
233	83	216	339	-	284	12	143	41	1035	41	15	51	1225
533	21	164	128	-	228	7	22	40	589	45	24	591	1270
237	93	289	301	82	249	80	122	101	1224	38	49	79	1483
429	42	175	362	-	391	59	79	38	1104	4	34	441	1625
240	176	251	626	-	301	32	285	53	1548	15	15	2	1756
Av.	64	164	278	30	162	23	84	52	793	17	25	116	1015

Farms with Emphasis on Feeder Cattle and Hogs

243	14	84	174	67	24	19	13	162	543	22	14	103	696
334	82	64	270	131	87	14	88	141	795	18	19	106	1020
433	181	105	170	-	58	20	31	104	488	16	28	312	1025
239	105	153	424	-	116	26	78	51	848	49	40	202	1244
529	71	236	490	-	325	3	64	56	1174	36	51	54	1386
427	364	112	215	-	145	48	186	78	784	142	47	67	1404
235	119	201	512	12	178	6	87	79	1075	66	92	54	1406
244	68	374	701	67	197	28	110	188	1665	14	53	38	1838
629	106	211	487	-	338	33	152	89	1310	126	84	257	1883
323	140	502	838	236	183	35	51	212	2057	41	71	5	2314
Av.	125	204	428	52	165	23	86	116	1074	53	50	120	1422

AVERAGE RATES OF PERFORMANCE FOR FIELDWORK

Machine		No. of Farms	Av. per Acre		Man hours per acre	
Kind	Size		Man hours	Power hours	low	high
T. Disc	7'-10'	12	.40	.40	.32	.59
S. Disc.	10'-18'	16	.22	.22	.14	.40
2 bottom plow		15	1.13	1.12	.61	1.82
3 bottom plow		10	1.02	1.02	.72	1.65
Spring-tooth	7'-12'	16	.34	.34	.26	.75
Spring-tooth	15'-20'	2	.27	.23	.16	.36
Spike Tooth	18'-21'	20	.14	.14	.10	.23
Grain drill	8'-10'	18	.41	.38	.11	.69
Grain drill	11'-12'	6	.30	.28	.23	.40
Drill:						
Corn planter	Tractor					
	2-row	22	.54	.54	.30	.79
Corn planter	4-row	3	.46	.43	.29	.75
Check:						
Corn planter	2-row	6	.66	.62	.48	1.26
Corn planter	4-row	3	.44	.38	.30	.54
Cultivator	2-row	25	.46	.45	.28	.77
Corn Picker	1-row	5	4.99	3.32	1.71	8.28
Corn Picker	2-row	9	1.53	1.26	.42	2.27
Corn, Field chopper		18	5.36	3.10	2.23	10.77
Mower	7 ft.	22	.49	.47	.29	.76
Side del. Rake		27	.36	.35	.17	1.02
Sweep rake		3	2.21	1.47	1.33	3.12
Hay loader		7	2.59	.97	1.68	4.67
Hay baler		3	3.05	1.41	2.61	3.71
Hay, Field chopper		6	2.57	2.57	1.20	3.57
Grain Binder	7-8	3	1.11	.61	.87	1.85
Shock		7	1.26	-	.75	1.81
Thresh		7	3.41	1.26*	2.09	3.95
Swather	6-7-8	6	.67	.64	.27	1.30
Swather	12	3	.42	.35	.26	.51
Combine	5-6	7	1.63	1.08	.97	3.04
- # -	12	3	1.38	.42	.72	1.84

* plus 1.75 hours of horse work.

Seasonal Distribution of Man Labor by Source and Selected Enterprises--Average Hours per Farm

Month	Source of Labor				Livestock					Crops			Man-		Misc.**	
	Total labor	Operator	Familily	Hired	Exch. rec'd	Dairy cattle	Hogs	Chick-ens	Feeder cattle	Small Grain	Flax	Corn	Soy-beans	Alf. mixt.		ure haul.
Jan.	374	227	34	112	1	266	42	34	51	-	-	-	-	-	14	70
Feb.	358	212	32	114	*	242	55	32	55	-	-	-	-	-	16	56
March	420	254	38	126	2	270	77	40	65	1	-	-	-	-	10	75
April	430	267	44	116	3	243	77	43	56	10	8	1	5	-	17	77
May	570	341	65	151	13	208	49	39	40	49	22	107	39	1	27	105
June	557	307	69	153	28	170	41	38	32	*	11	53	43	85	6	164
July	531	296	72	144	19	166	37	36	19	7	7	49	39	81	8	147
Aug.	546	302	66	149	29	158	43	33	27	137	38	30	-	20	8	152
Sept.	482	285	44	128	25	159	48	33	32	24	33	54	5	38	14	132
Oct.	502	305	53	122	22	176	48	32	40	1	5	85	38	4	13	157
Nov.	463	279	51	122	11	218	48	32	50	*	-	6	4	-	11	111
Dec.	392	252	45	94	1	248	51	33	82	-	-	-	-	-	12	85
Total	5625	3327	613	1531	154	2524	616	425	549	229	124	385	173	229	156	331
No. of farms	32	32	32	32	32	22	29	27	9	31	10	32	8	32	31	32

* Less than 1/2 hr.

** includes repair work on buildings, snow clearing, upkeep of farmstead and roads, farm meetings, farm business, etc.

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