



**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](mailto: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  
Department of Agriculture  
and  
UNITED STATES DEPARTMENT OF AGRICULTURE  
Bureau of Agricultural Economics  
Cooperating

-- o --

A Preliminary Report  
of

COST OF CROP PRODUCTION

From  
Data Secured in 1932  
on the

FARM ACCOUNTING ROUTE

In

STEVENS COUNTY, MINNESOTA

By

Geo. A. Sallee and Geo. A. Pond  
Robert H. Loreaux, Routeman

-- o --

Mimeographed Report No. 56  
Division of Agricultural Economics  
University Farm  
St. Paul, Minnesota  
January 1933

INDEX

	Page
Source of Data.....	1
Methods of Computing and Presenting Data.....	2
Using Crop Reports to Increase Crop Returns.....	3
Planning the Cropping Program.....	5
Summary of Crop Costs and Returns.....	7
Cost of Producing Husked Corn.....	8
Labor and Power Used in Producing Husked Corn.....	9
Cost of Producing Oats.....	11
Labor and Power Used in Producing Oats.....	12
Cost of Producing Barley.....	13
Labor and Power Used in Producing Barley.....	14
Cost of Producing Wheat.....	15
Labor and Power Used in Producing Wheat.....	16
Cost of Producing Oats and Wheat.....	17
Labor and Power Used in Producing Oats and Wheat.....	18
Cost of Producing Flax.....	19
Labor and Power Used in Producing Flax.....	20
Cost of Producing Alfalfa.....	21
Labor and Power Used in Producing Alfalfa.....	22
Cost of Producing Wild Hay.....	24
Labor and Power Used in Producing Wild Hay.....	25
Cost of Producing Corn Fodder.....	26
Labor and Power Used in Producing Corn Fodder.....	27
Cost of Producing Corn Silage.....	29
Labor and Power Used in Producing Corn Silage.....	30

SOURCE OF DATA

Method of Study

The Division of Agricultural Economics of the University of Minnesota, the West Central Agricultural Experiment Station at Morris, and the Bureau of Agricultural Economics of the United States Department of Agriculture are co-operating in an accounting study of twenty-four farms in Stevens County in west central Minnesota. This study was started March 1, 1932. The farms were selected in cooperation with the county agricultural agent, Mr. Frank Douglas, and Mr. Allen W. Edson of the West Central Experiment Station. Farms which are representative of the area were chosen. The farmers cooperating in this work keep a complete record of cash receipts and cash expenditures, a daily record of the labor used on each crop and class of livestock, a record of the farm produce used in the house, and other detailed information regarding the farm business. These records are checked at least twice per month by the route man and supplemented with inventories, livestock feed records, reports of crop yields and practices and other significant facts about the farm operations. The data collected are sent to the central office at University Farm, St. Paul, where a detailed set of records for each farm is kept. From these records, the costs presented in this report have been computed. The financial returns from these farms, the cost and income from livestock production and other significant facts will be presented in later reports as the information becomes available.

Description of the Area

Stevens County is located in the west central portion of the state. All of the county lies within the glaciated area, the northwestern part lying within the bed of the glacial Lake Agassiz. As a result of glaciation, the topography is for the most part flat to gently rolling with numerous sinks and depressions, in

many of which stagnant water stands all year. The level areas are large and in wet years some difficulty is experienced in farming the land that has not been artificially drained with ditches or tile. The soil material is high in lime and due to the fine texture, the leaching has not extended below an average depth of two feet. Liming is seldom needed, even for alfalfa. In most of the county, the soil is very productive if well drained.

The climate is marked by wide variations in temperature. The growing season approximates 133 days and the average annual rainfall is about 24 inches, two-thirds of which comes in the growing season. A mixed type of farming prevails. Corn, oats, barley, wheat, flaxseed and some rye are grown. Alfalfa and wild hay are the principal roughages. Sweet clover is grown for both pasture and hay. Beef cattle, dairy cattle, hogs and poultry are found thruout the county. Recently, the raising of turkeys has become an important enterprise on many farms.

### Description of the Farms

The average size of the farms studied was 355 acres. This is approximately 36 per cent larger than the average for the county as given in the 1930 census. The 1930 census lists the farms varying from 269 to 499 acres in size as being the most numerous group in Stevens County. Approximately 292 acres or 82 per cent of the farm acreage is in harvested crops. Approximately 48 per cent of the crop acreage was in oats, barley and wheat, 25 per cent in corn, 14 per cent in hay, and 9 per cent in flax. Fifty-seven per cent of the acreage of corn was husked, 23 per cent was cut and shocked, 14 per cent was put in the silo, and 6 per cent was harvested with livestock. According to the census, 47 per cent of the crop acreage in Stevens County was in wheat, oats and barley in 1929, 23 per cent was in corn, 14 per cent in hay, and 3 per cent in flax. Sixty-seven per cent of the corn in the county was husked, 23 per cent cut and shocked, 4 per cent put in the silo, and 7 per cent hogged or grazed off.

Of the twenty-four farms studied, four were owned by the operator, two were rented, and eighteen were partly owned and partly rented. Thirty-eight per cent of the total land operated was rented. Both share and cash rental leases were employed.

### METHODS OF COMPUTING AND PRESENTING DATA

#### Factors of Cost

Comparative costs and returns for 1932 for each of the ten principal crops grown on these farms are presented in this report. The hours of man labor and horse and tractor work used per acre for each of the crops are also presented. The factors of cost are charged at local market prices. The man labor rate of 15 cents per hour is based on wages paid to hired men on these farms and includes an allowance for board. Horse work was charged at 7 cents per hour, two-plow tractors at 65 cents per hour, three-plow at 80 cents, and four-plow tractors at \$1.00. The seed charge for hay is based on the cost of seeding divided by the expected life of the stand. Manure is charged at 25 cents per ton plus the cost of hauling and spreading. Forty per cent of the total manure cost is charged against the crop on the land to which it is applied and the balance is prorated to the rest of the crops in the rotation on an acre basis. The machinery charge includes an allowance for depreciation, repairs, interest on the investment and shelter it received. It also includes the expense for any use of the truck or auto. The land charge is based upon prevailing cash rental rates paid by the cooperators. The local market price on December 1 was used in computing the crop value for the various crops. The value of crops, such as silage, which have no regular market price is computed by comparing their feeding value with

other crops, for which a local market price is available. All costs except those for flax are figured at the farm. Marketing charges for flax, when it was hauled direct to market at threshing time, have been included. The costs do not include any labor for hauling hay from the stack nor fodder from the shock since hauling practices and size of loads vary so widely.

The physical expenditures and money costs are expressed on an acre basis. The cost per bushel or ton is also given. In the tables showing costs, the farms are arranged in order of cost per bushel or ton, with the lowest cost appearing first. In the tables showing the labor expenditures, the farm with the lowest number of hours of man labor is placed first and the other farms follow in order, with the highest amount of man labor coming last.

The costs presented are relative rather than absolute costs. Since many of the cost items such as the farmers' own labor and the use of his own land, machinery, and equipment do not represent actual current "out-of-pocket" cash expense, it is necessary for comparative purposes to estimate their value. However, uniform rates have been used for all crops so that comparisons may be made between different crops and different farms. Uniform rental rates are used for each crop, since the varied rental systems on the different farms, including cash rented, share rented, and owned land, would tend to obscure these comparisons. All crops have been valued at uniform prices, except as they vary in quality. Some farmers undoubtedly receive different prices and also have labor and machinery costs differing from those used. The reader, in interpreting these figures, must make such adjustments in the returns as are necessary to fit any individual case.

#### USING CROP RECORDS TO INCREASE CROP RETURNS

##### Reducing Costs

The cost and crop value per acre for each farm producing each of the ten important crops is presented in the tables following page 7. Altho sweet clover is an important crop on some farms, its use as a combined hay, pasture and seed crop make the presentation of comparative data impossible. The hours of labor and power used by operations are also presented. The costs and returns show a wide range between farms, indicating that different practices and methods are followed on different farms. The variation in production costs is indicated in Table 1.

Table 1

Crop	Unit	Cost per Unit		
		Average	High	Low
Husked corn	Bu.	\$.36	\$.87	\$.22
Oats	Bu.	.17	.33	.12
Barley	Bu.	.31	.73	.20
Wheat	Bu.	.57	1.02	.36
Flax	Bu.	1.11	2.94	.57
Alfalfa	Ton	7.08	16.44	3.90
Wild hay	Ton	4.10	6.11	2.70
Corn fodder	Ton	5.64	10.65	2.98
Corn silage	Ton	2.00	3.68	1.34

A study of the records from these farms has revealed some important factors influencing costs. Among these are variations in labor and power costs and differences in crop yields.

The variation in the hours of labor per acre of the various crops as presented in Table 2, is indicative of the extent to which variations in labor

Table 2

Variation in Hours of Man Labor Used per Acre of Crops  
Stevens County, 1932

Crop	Average	High	Low
Husked corn	12.5	17.5	7.4
Oats	6.0	9.9	3.5
Barley	6.1	11.1	3.7
Wheat	5.7	11.1	3.4
Flax	7.0	21.0	3.0
Alfalfa	5.9	11.1	3.1
Wild hay	5.7	12.5	2.6
Corn fodder	10.6	14.8	7.3
Corn silage	14.1	18.4	9.3

and power occur. These variations in labor expenditures are due to differences in the number of operations performed and to the efficiency of the individual operations. By referring to the labor tables, each cooperator can compare his record with that of the others in these respects and thereby discover why his costs are high or low.

Variations in the yield per acre are also responsible for much of the variation in the cost per bushel or ton of the various crops. The cost per acre and the cost per bushel of husked corn for the farms grouped according to the yield per acre are shown in Table 3. There is little difference between the three

Table 3

The Yield and the Cost per Acre and per Bushel of Husked Corn  
Stevens County, 1932

Yield	No. farms	Average yield, bu.	Cost	
			Per acre	Per bu.
Under 25 bu.	5	20.4	\$9.64	\$.47
25 to 34.9 "	9	28.9	9.80	.34
35 and over	5	37.7	9.58	.25

groups in the cost per acre but there is a large difference in the cost per bushel. The farms with the high yields had a much lower cost per bushel than those with low yields.

A few things that may be done to increase the crop yields are (1) to plant the varieties best adapted to the farm, (2) to plant only clean seed of high vitality, (3) to properly prepare the seedbed, and (4) to plant at the right time. Information regarding the best varieties and cropping practices may be obtained from the Agricultural Experiment Station at Morris or from the County Agricultural Agent.

Planning the Cropping System

Every farmer necessarily chooses a cropping system for his farm. Such a system should be based essentially on expected conditions extending over a period of years. Any adjustments to temporary market conditions should usually be of a minor nature, rather than a total reorganization of the cropping system. The first consideration in developing a cropping system is a definite rotation or succession of crops. A good crop rotation should include the following groups of crops: (1) small grain crops, (2) cultivated crops, and (3) legume hay or pasture crops. Approximately the same proportion of the crop land should be in each group each year. Each group should follow the other in succession altho the same group may remain on the same field for two or three years. Such a crop rotation will preserve or increase the productivity of the farm, reduce production costs, and stabilize earnings. The second consideration in developing the cropping system is the selection of the crops to be included in each rotation group. Some crops are grown primarily for feed whereas others are commonly grown for sale. A comparison between the different cash crops and the different feed crops commonly grown in the county is presented in the following paragraphs.

Selection of feed crops. If the crops are to be fed, the selection should be based upon the amount and quality of digestible nutrients produced per acre. The records secured in this study together with data published by the State Department of Agriculture furnish the basis for such a selection. The production per acre and the relative cost per hundred pounds of digestible nutrients for Stevens County, based on ten year average county yields and average route costs adjusted for differences in yields, are presented in Table 4.

Table 4

Production per Acre and Relative Cost per Hundred Pounds of Digestible Nutrients - Stevens County

Crop	Average yield* (1922-31) bu.	Total digestible nutrients, lb.	% protein is of total nutrients	Cost of 100 lbs. of total nutrients
<b>Grains</b>				
Corn	28.3	1295	6.3	\$.75
Barley	25.6	976	13.8	.84
Oats	33.1	746	11.3	1.00
Wheat	13.1	623	11.2	1.26
<b>Roughages</b>				
Alfalfa	1.7	1734	20.7	.40
Wild hay	.9	860	6.3	.43
Silage	5.8	1949	7.2	.61
Corn fodder	1.6 <sup>+</sup>	1154	7.7	.83

\*From the annual reports of the State Department of Agriculture.

+Nutrients calculated on the basis of 1.2 tons yield. The balance is estimated lost thru waste and shrink.

The data presented indicate that on the basis of past yields and present costs the lowest cost feed grain crop is corn. It produces more nutrients per acre and at a lower cost than either oats, barley, or wheat. Barley is next to corn in amount of feed produced and in cheapness.

Alfalfa, on the basis of the above data is the cheapest source of roughage. It also has the advantage of producing a large quantity of nutrients per acre and of containing a high percentage of protein. Wild hay is a relatively cheap feed due to the absence of seedbed preparation and seeding costs, and to the fact that it is permitted to grow only on land not suited for other purposes and therefore at a low land cost. Silage has the disadvantage of a higher cost, and a very low protein content. However, it offers a method of utilizing the entire corn crop.

Selection of cash crops. The profitableness of raising cash crops depends to a large extent upon the prices received. It is impossible to predict, with any assurance, what the prices of crops will be in the future. However, it is possible to calculate the relative profitableness of the various crops, using ten year average county yields, average prices for the past three years, and 1932 costs adjusted to the ten year average yields. The results of such a calculation are shown in Table 5. On this basis, flax is the most profitable cash crop,

Table 5

Comparative Returns per Acre of Crops  
Stevens County

	Corn	Wheat	Flax	Oats	Barley
Cost per acre	\$9.65	\$7.85	\$8.70	\$7.50	\$8.15
Yield, average 1922-31, bu.	28.3	13.1	8.7	33.1	25.6
Cost per bushel	\$.34	\$.60	\$1.00	\$.23	\$.32
Dec. 1 price 1930-32	.32	.52	1.16	.17	.28
Net return per acre*	-.59	-1.04	1.39	-1.99	-1.02

\*A minus (-) indicates the amount the cost exceeds the value of the crop.

followed in order by corn, barley, wheat, and oats. The actual returns from the various crops may vary from that shown but the relative position is quite likely to remain approximately the same.

Each cooperator should study the data presented here with a view toward obtaining the best selection of crops and the most efficient production possible under his conditions.



Comparative Cost and Return per Acre for the Principal Crops  
Stevens County, 1932

	Corn	Oats	Barley	Wheat	Oats & wheat	Flax	Alfal- fa hay	Wild hay	Corn fodder	Corn silage
Number of farms	19	23	21	17	9	19	16	18	21	12
Acres per farm	57	59	42	43	35	33	16	15	20	20
Before harvest:							1st Cutting			
Man labor, hr.	7.2	2.3	2.2	2.3	2.5	3.3	4.2	-	6.9	6.4
Horse work, hr.	22.3	7.4	7.1	7.1	9.3	9.8	7.0	-	20.8	18.3
Tractor work, hr.	.9	.6	.5	.7	.2	.8	-	-	1.0	1.3
Harvesting:							2nd Cutting			
Man labor, hr.	5.4	3.7	3.9	3.4	3.6	3.7	1.7	5.7	3.7	7.7
Horse work, hr.	10.4	5.6	5.9	5.0	5.9	5.2	2.9	9.2	5.6	12.7
Tractor work, hr.	.3	.1	.2	.2	.1	.3	-	-	-	-
Total:										
Man labor, hr.	12.6	6.0	6.1	5.7	6.1	7.0	5.9	5.7	10.6	14.1
Horse work, hr.	32.7	13.0	13.0	12.1	15.2	15.0	9.9	9.2	26.4	31.0
Tractor work, hr.	1.2	.7	.7	.9	.3	1.1	-	-	1.0	1.3
Costs:										
Man labor	\$1.88	\$1.90	\$1.91	\$1.85	\$1.91	\$1.06	\$1.88	\$1.85	\$1.60	\$2.12
Horse and tractor	3.12	1.46	1.42	1.49	1.26	1.82	.69	.64	2.61	3.12
Seed	.18	.72	1.00	.97	.98	.93	.60	-	.32	.27
Twine	-	.17	.17	.15	.18	.15	-	-	.24	.23
Threshing	.24 <sup>+</sup>	.87	.75	.68	.85	.66	-	-	-	1.23 <sup>†</sup>
Manure	.71	.40	.53	.29	.33	.43	.54	-	.67	.69
Machinery	1.05	.91	.90	.92	.93	1.01	1.16	.70	1.65	1.65
Operating Costs	7.18	5.43	5.68	5.35	5.44	6.06	3.87	2.19	7.09	9.31
Land	2.50	2.50	2.50	2.50	2.50	2.50	2.50	1.50	2.50	2.50
TOTAL COST	9.68	7.93	8.18	7.85	7.94	8.56	6.37	3.69	9.59	11.81
Yield, bu. tons	29.0	45.8	26.1	13.7	33.8	7.7	.9	.9	1.7	5.9
Cost per bu. or ton	\$.36	\$.17	\$.31	\$.57	\$.24	\$1.11	\$7.08	\$4.10	\$5.64	\$2.00
December 1 price	.12	.08	.19	.36	.16	.79	6.00	2.66	3.00	2.00
Crop value	3.48	3.66	4.96	4.93	5.41	6.08	5.40	2.39	5.10	11.80
Crop value less total cost*	-6.20	-4.27	-3.22	-2.92	-2.53	-2.48	-.97	-1.30	-4.49	-.01

\*A minus (-) indicates a cost greater than the value of the crop.

+Charge for mechanical husker.

†Charge for ensilage cutter and power.

Cost and Return per Acre of Husked Corn  
Stevens County, 1932

Farm no.	Hours									Cost							Yield bu.	Cost per bu.	Crop value*	
	Before Harvest			Harvesting			Total			Man labor	Horse & tractor	Seed	Husker	Man-ure	Mach-inery	Land				Total
218	5.7	21.3	.7	6.0	11.9	-	11.7	33.2	.7	\$1.75	\$2.88	\$.12	\$.15	\$.10	\$1.05	\$2.50	\$8.55	39.7	\$.22	\$4.76
102	3.7	11.1	.9	4.5	13.2	-	8.2	24.3	.9	1.24	2.41	.16	.57	.72	1.05	2.50	8.65	35.6	.24	4.27
118	7.8	29.8	-	9.6	17.5	-	17.4	47.3	-	2.61	3.31	.16	-	.20	1.05	2.50	9.83	38.3	.26	4.60
201	4.5	11.4	1.3	9.0	17.9	-	13.5	29.3	1.3	2.02	3.09	.14	-	.70	1.05	2.50	9.50	36.6	.26	4.39
119	8.3	26.9	.2	3.7	10.7	-	12.0	37.6	.2	1.80	2.76	.21	.65	2.40	1.05	2.50	11.37	38.2	.30	4.58
105	7.8	32.0	-	7.2	14.3	-	15.0	46.3	-	2.25	3.24	.16	-	.21	1.05	2.50	9.41	31.5	.30	3.78
101	9.2	37.2	-	5.1	10.2	-	14.3	47.4	-	2.15	3.32	.15	-	.01	1.05	2.50	9.18	30.1	.30	3.61
109	10.0	30.1	.2	5.6	9.6	.2	15.6	39.7	.4	2.33	3.06	.15	.17	.68	1.05	2.50	9.94	31.8	.31	3.81
313	4.9	10.8	2.3	2.5	3.5	.7	7.4	14.3	3.0	1.11	2.95	.19	.58	.37	1.05	2.50	8.75	27.5	.32	3.30
219	6.8	22.9	.5	5.8	14.4	-	12.6	37.3	.5	1.88	3.02	.16	.54	.18	1.05	2.50	9.33	28.1	.33	3.37
208	7.2	25.1	-	4.0	7.7	-	11.2	33.8	-	1.68	2.36	.18	-	1.34	1.05	2.50	9.11	27.2	.34	3.24 <sup>00</sup>
108	7.9	14.5	2.7	5.1	5.7	1.7	13.0	20.2	4.4	1.95	4.31	.16	.51	.23	1.05	2.50	10.71	30.3	.35	3.64 <sup>1</sup>
113	5.2	13.1	1.7	2.9	3.6	1.0	8.1	16.7	2.7	1.21	2.93	.16	.54	.38	1.05	2.50	8.77	23.0	.38	2.76
111	8.9	35.7	-	2.2	3.5	.5	11.1	39.2	.5	1.66	3.05	.23	.30	1.45	1.05	2.50	10.24	26.8	.38	3.22
126	8.5	25.1	-	6.0	11.8	-	14.5	36.9	-	2.18	2.59	.19	-	1.34	1.05	2.50	9.85	24.5	.40	2.94
123	4.8	10.5	1.4	6.6	13.3	-	11.4	23.8	1.4	1.71	2.77	.15	-	.10	1.05	2.50	8.28	20.1	.41	2.41
319	11.0	33.9	1.1	6.5	13.1	-	17.5	47.0	1.1	2.63	4.02	.26	-	1.11	1.05	2.50	11.57	26.9	.43	3.23
301	9.4	30.0	-	6.6	12.9	-	16.0	42.9	-	2.39	3.01	.22	-	.53	1.05	2.50	9.70	21.3	.45	2.56
213	4.9	1.3	4.3	3.1	3.6	1.3	8.0	4.9	5.6	1.21	4.69	.18	.58	1.37	1.05	2.50	11.58	13.3	.87	1.60
Average	7.2	22.3	.9	5.4	10.4	.3	12.6	32.7	1.2	1.88	3.12	.18	.24	.71	1.05	2.50	9.68	29.0	.36	3.48

\*At December 1 price of 12¢ per bushel.

Hours of Man Labor and Horse and Tractor work Used per Acre of Husked Corn  
Stevens County, 1932

Farm no.	Yield bu.	Flowing				Disking				Springtooth Harrowing			Harrowing			Planting	
		Man	Horse	Tractor	Times over	Man	Horse	Tractor	Times over	Man	Horse	Times over	Man	Horse	Times over	Man	Horse
313	27.5	1.25	.56	1.12	1.0	.35	.78	.25	2.0	.01	.06	.1	.20	1.14	.9	.37	.37*
213	13.3	.98	-	.98	1.0	-	-	-	-	1.14	1.14*	4.8	.15	.15*	1.0	.67	1.33
113	23.0	1.50	-	1.50	1.0	.13	-	.13	.6	-	-	-	.21	1.24	1.4	.55	1.10
102	35.6	.67	-	.67	1.0	.19	1.13	-	.5	.22	.22*	.7	.21	1.23	1.3	.55	1.11
111	26.8	2.97	11.88	-	1.0	.09	.35	-	.1	.84	3.37	2.0	.73	4.41	3.1	.82	1.63
208	27.0	2.14	8.56	-	1.0	.39	1.56	-	1.0	-	(.38*	-	.54	2.18	3.0	.66	1.32
123	20.1	1.03	.13	1.00	1.0	-	-	-	-	.46	(.39	1.0	-	-	-	.71	1.42
218	39.7	1.74	9.20	.20	1.0	-	-	-	-	.37	.37*	1.5	.12	.12*	1.0	.71	1.43
119	38.2	1.56	7.83	.16	1.0	.79	3.52	-	2.0	-	-	-	.26	1.20	1.0	.62	1.22
219	28.1	1.75	6.38	.51	1.0	.86	3.49	-	2.0	.11	.50	.2	.33	1.57	1.3	.68	1.36
108	30.3	1.60	-	1.60	1.0	-	-	-	-	.63	.63*	1.5	.38	1.51	2.0	.73	1.45
201	36.6	1.06	-	1.06	1.0	.25	-	.24	1.0	-	-	-	.38	1.64	2.0	.62	1.22
101	30.1	2.60	13.02	-	1.0	1.06	4.23	-	2.0	-	-	-	.34	1.37	1.2	.89	1.78
126	24.5	2.37	10.75	-	1.0	-	-	-	-	.76	2.15	.6	.69	2.41	1.7	1.03	2.06
105	31.5	2.20	13.12	-	1.0	1.04	4.15	-	2.0	-	-	-	.11	.43	.5	.62	1.24
109	31.8	2.00	8.64	.25	1.0	-	-	-	-	1.09	4.38	2.3	.41	1.65	2.0	.70	1.40
301	21.3	3.30	9.90	-	1.0	.98	3.95	-	2.0	-	-	-	.27	1.09	1.6	.67	1.33
118	38.3	2.63	13.16	-	1.0	.40	1.61	-	.6	.37	1.82	.6	.14	.72	.6	.94	1.88
319	26.9	3.11	12.53	1.02	1.7	.43	1.90	-	.7	.10	.10*	.1	.39	1.57	1.1	1.00	2.00
Average	29.0	1.92	6.61	.53	1.0	.37	1.40	.03	.9	.32	(.67 (.15*	.8	.31	(1.33 (.01*	1.4	.71	(1.38 (.02*

\*Tractor hours.

Hours of Man Labor and Horse and Tractor Work Used per Acre of Husked Corn (continued)  
Stevens County, 1932

Farm no.	Harrowing				Cultivating				Hand Husking			Machine Husking				Total		
	Man	Horse	Tractor	Times over	Man	Horse	Tractor	Times over	Man	Horse	Times over	Man	Horse	Tractor	Times over	Man	Horse	Tractor
313	.28	1.77	-	1.4	2.31	6.24	.61	3.3	.70	1.36	.12	1.79	2.15	.66	.88	7.38*	14.31	3.01
213	.19	-	.19	1.0	1.81	-	1.81	3.9	.42	.85	.10	2.68	2.71	1.29	.90	8.04	4.89	5.56
113	.14	.23	.10	1.0	2.62	10.49	-	4.0	.46	.92	.17	2.48	2.73	.97	.83	8.09	16.71	2.70
102	.11	.65	-	.7	1.69	6.67	-	3.0	1.27	2.54	.12	3.25	10.69	-	.88	8.25†	24.27	.89
111	.18	1.11	-	1.0	3.24	12.97	-	4.0	1.34	2.67	.45	.87	.79	.47	.55	11.08	39.18	.47
208	.42	1.66	-	2.0	3.01	10.76	-	3.0	4.04	7.73	1.00	-	-	-	-	11.20	33.77	-
123	.27	1.32	-	1.2	2.30	7.22	-	2.5	6.65	13.20	1.00	-	-	-	-	11.42	23.78	1.38
218	-	-	-	-	2.75	10.67	-	5.0	5.98	11.92	1.00	-	-	-	-	11.67	33.22	.69
119	.22	.90	-	1.0	4.86	12.24	-	5.0	-	-	-	3.70	10.70	-	1.00	12.01	37.61	.16
219	.26	1.27	-	1.4	2.76	8.32	-	3.8	2.06	3.91	.17	3.74	10.52	-	.83	12.55	37.32	.51
108	.29	.36	.20	1.8	4.28	11.14	.29	4.0	.43	.52	.07	4.65	5.18	1.73	.93	12.99	20.16	4.45
201	.09	.55	-	1.0	2.14	7.94	-	3.0	8.95	17.91	1.00	-	-	-	-	13.49	29.26	1.30
101	.51	1.78	-	1.0	3.79	15.00	-	5.0	5.12	10.24	1.00	-	-	-	-	14.31	47.42	-
126	.33	.98	-	.8	3.38	6.77	-	2.9	5.96	11.80	1.00	-	-	-	-	14.52	36.92	-
105	.27	1.60	-	1.5	3.54	11.46	-	3.0	7.24	14.26	1.00	-	-	-	-	15.02	46.26	-
109	.20	.80	-	1.0	5.54	13.27	-	5.3	5.06	9.18	.74	.56	.42	.17	.26	15.56	39.74	.42
301	.54	2.16	-	1.9	3.62	11.61	-	4.0	6.57	12.90	1.00	-	-	-	-	15.95	42.94	-
118	.31	1.56	-	1.0	3.01	9.03	-	3.0	9.56	17.56	1.00	-	-	-	-	17.36	47.34	-
319	.17	.67	-	.9	5.82	15.27	-	4.7	6.53	13.08	1.00	-	-	-	-	17.55	47.02	1.12
Average	.25	1.02	.03	1.1	3.29	9.85	.14	3.8	4.12	8.03	.63	1.25	2.42	.28	.37	12.55†	32.74	1.17

\*Includes .12 man and .25 horse hours rolling and cultipacking.

+ " .09 " " .25 " " " " " " " " " " " "

‡ " .01 " " .03 " " " " " " " " " " " "

- 17 -

Cost and Return per Acre of Oats  
Stevens County, 1932

Farm No.	HOURS									COST								Cost			
	Before Harvest			Harvesting			Total			Man Labor	Horse & Tr.	Seed	Twine	Thresh- ing	Mach- Manure	inery Land	Total	Yield bu.	per bu.	Crop Value*	
	Man	Horse	Tr.	Man	Horse	Tr.	Man	Horse	Tr.												
108	1.2	2.9	.4	4.2	5.4	.3	5.4	8.3	.7	\$.82	\$1.04	\$.97	\$.15	\$1.32	\$.33	\$.97	\$2.50	\$8.10	65.9	\$.12	\$5.27
111	2.6	11.2	-	3.9	7.6	-	6.5	18.8	-	.98	1.32	.93	.18	1.06	.44	.90	2.50	8.31	64.6	.13	5.17
102	1.8	8.2	.3	3.6	5.5	-	5.4	13.7	.3	.81	1.21	.85	.22	1.00	.16	.91	2.50	7.66	55.4	.14	4.43
109	3.3	9.0	.7	4.5	8.8	-	7.8	17.8	.7	1.17	1.71	.66	.21	1.15	.26	.90	2.50	8.56	57.2	.15	4.58
113	2.1	3.2	1.2	2.9	2.8	.4	5.0	6.0	1.6	.75	1.46	.83	.19	1.09	.47	.90	2.50	8.19	54.5	.15	4.36
120	1.5	-	1.5	4.0	4.3	.3	5.5	4.3	1.8	.83	1.66	.73	.21	1.07	.22	.90	2.50	8.12	53.8	.15	4.78
218	1.3	0.1	1.2	2.8	3.6	.3	4.1	3.7	1.5	.61	1.47	.54	.15	1.01	.51	.90	2.50	7.69	50.3	.15	4.02
119	1.7	6.9	-	3.5	4.5	.1	5.2	11.4	.1	.78	.91	.82	.16	.98	.77	.90	2.50	7.82	49.2	.16	3.94
219	2.3	9.8	.3	3.6	5.4	.1	5.9	15.2	.4	.89	1.42	.87	.16	1.03	.47	.90	2.50	8.24	51.3	.16	4.10
301	4.1	11.7	-	3.1	6.2	-	7.2	17.9	-	1.07	1.25	.67	.15	.81	.51	.90	2.50	7.97	47.8	.17	3.82
126	2.6	12.3	-	3.9	5.8	-	6.5	18.1	-	.97	1.27	.44	.17	.76	.28	.90	2.50	7.29	43.7	.17	3.50
208	3.1	12.3	-	3.0	5.0	-	6.1	17.3	-	.95	1.20	.61	.18	.86	.57	.90	2.50	7.77	45.8	.17	3.66
105	2.8	15.3	-	3.9	7.6	-	6.7	22.9	-	1.01	1.61	.76	.18	.83	.21	.90	2.50	8.00	45.7	.18	3.66
201	1.8	3.2	1.1	2.6	3.1	.3	4.4	6.3	1.4	.65	1.55	.95	.19	.88	.14	.94	2.50	7.80	43.8	.18	3.50
104	3.2	14.1	-	6.7	9.7	-	9.9	23.8	-	1.48	1.67	.65	.25	1.12	1.64	.92	2.50	10.23	57.2	.18	4.58
203	1.8	2.4	1.2	3.0	4.2	.2	4.8	6.6	1.4	.73	1.68	.63	.13	.78	-	.90	2.50	7.35	39.2	.19	3.14
101	3.7	17.4	-	2.9	5.7	-	6.6	23.1	-	.99	1.62	.81	.12	.67	-	.92	2.50	7.63	39.9	.19	3.19
123	1.1	2.3	.6	4.1	7.2	.1	5.2	9.5	.7	.78	1.23	.75	.20	.70	.10	.90	2.50	7.16	36.6	.20	2.93
319	2.3	2.5	1.7	5.0	9.4	-	7.3	11.9	1.7	1.09	1.94	.73	.21	.76	.45	.90	2.50	8.58	42.2	.20	3.38
313	1.0	3.5	.3	4.0	4.8	.4	5.0	8.3	.7	.75	1.05	.57	.14	.57	.26	.90	2.50	6.74	32.8	.21	2.62
209	4.0	17.9	-	4.7	7.3	-	8.7	25.2	-	1.31	1.77	.46	.18	.58	.72	.90	2.50	8.42	28.9	.29	2.31
103	2.6	.9	2.3	2.7	3.1	.2	5.3	4.0	2.5	.79	2.44	.53	.08	.52	-	1.00	2.50	7.86	25.9	.30	2.07
213	1.4	2.2	.9	2.1	2.5	.4	3.5	4.7	1.3	.53	1.17	.84	.11	.43	.62	.90	2.50	7.10	21.3	.33	1.70
Ave.	2.3	7.4	.6	3.7	5.6	.1	6.0	13.0	.7	.90	1.46	.72	.17	.87	.40	.91	2.50	7.93	45.8	.17	3.66

\*Crop value at Dec. 1 price of \$.08 per bu.

Hours of Man Labor and Horse and Tractor Work Used per Acre  
of Oats, Stevens County, 1932

Farm No.	Yld. bu.	Plowing			Disking & Spring-tooth Harrowing				Harrowing			Seeding			Cutting			Shock.	Threshing		Total		
		Man	Hse.	X	Man	Hse.	Tr.	X	Man	Hse.	X	Man	Hse.	Tr.	Man	Hse.	Tr.	Man	Man	Hse.	Man	Horse	Tractor
213	21.3	.50	.50 <sup>+</sup>	.8	.18	-	.18	.9	.21	.21 <sup>+</sup>	1.5	.55	2.19	-	.40	-	.40	.41	1.31	2.51	3.56	4.70	1.29
218	50.3	.70	.70 <sup>+</sup>	1.0	-	-	-	.15	.15 <sup>+</sup>	1.0	.41	.06	.38	.29	-	.29	.72	1.79	3.59	4.06	3.65	1.52	
201	43.8	.93	.93 <sup>+</sup>	.7	.45	1.42	.17	.9	.13	.77	1.0	.30	1.03	-	.58	1.18	.29	.83	1.15	1.89*	4.37	6.29	1.39
203	39.2	.80	.80 <sup>+</sup>	1.0	.15	-	.15	1.0	.59	2.34	2.0	.25	.07	.21	.68	1.19	.18	.85	1.50	2.99	4.82	6.59	1.34
313	32.8	-	-	-	.64	3.50	-	1.5	-	-	-	.37	-	.34	.81	-	.40	.80	2.34	4.82	4.96	8.32	.74
113	54.5	.93	.93 <sup>+</sup>	.6	.34	.86	.13	.5	.32	{.18 <sup>+</sup> .54	2.3	.47	1.84	-	.36	-	.36	.88	1.67	2.81	4.97	6.05	1.60
119	49.2	.46	2.32	.4	.24	.97	-	.8	.51	1.72	1.0	.46	1.85	-	.57	1.18	.13	1.02	1.94	3.37	5.20	11.41	.13
123	36.6	.21	.21 <sup>+</sup>	.2	.38	-	.38	2.0	.05	.19	.3	.46	1.84	-	.91	2.64	.12	.78	2.39	4.62	5.24 <sup>a</sup>	9.52	.71
103	25.9	1.23	1.23 <sup>+</sup>	1.0	.40	-	.40	1.0	.42	{.18 <sup>+</sup> .92	2.0	.50	-	.50	.64	-	.22	.55	1.55	3.10	5.29	4.02	2.53
108	65.9	.14	.86	.1	.44	.22	.37	1.9	.14	{.56 <sup>+</sup> .03	1.0	.45	1.29	-	.50	.24	.31	.74	2.94	5.13*	5.35	8.30	.71
102	55.4	1.10	{4.31 <sup>+</sup> 4.98	1.0	-	-	-	.29	1.61	2.0	.39	1.56	-	.57	2.30	-	.93	2.07	3.27*	5.35	13.72	.31	
120	53.8	.76	.75 <sup>+</sup>	1.0	.21	-	.21	.7	.13	.13 <sup>+</sup>	1.0	.29	-	.25	.35	-	.35	1.09	2.53	4.34*	5.51 <sup>b</sup>	4.34	1.84
219	51.3	1.40	6.42 <sup>c</sup>	.8	.19	.76	-	.5	.27	1.25	1.5	.40	1.52	-	.44	1.21	.14	1.02	2.19	4.09	5.91	15.25	.42
208	45.8	1.96	7.83	1.0	.03	.11	-	.1	.56	2.24	2.4	.58	2.10	-	.45	1.80	-	.85	1.69	3.20	6.12	17.28	-
126	43.7	2.00	10.02	1.0	-	-	-	-	.41	1.65	2.0	.16	.63	-	.98	3.93	-	1.49	1.41	1.89*	6.45	18.12	-
111	64.6	.78	3.12	.3	.65	2.61	-	.7	.45	2.54	2.0	.72	2.89	-	.93	3.72	-	.81	2.15	3.92	6.49	18.80	-
101	39.9	2.50	12.49	1.0	.06	.26	-	.1	.55	2.22	2.0	.60	2.39	-	.89	3.43	-	.61	1.39	2.38*	6.60	23.17	-
105	45.7	1.94	11.64	1.0	-	-	-	-	.41	2.07	2.0	.46	1.63	-	.63	2.50	-	.72	2.54	5.09	6.70	22.93	-
301	47.8	2.61	7.84	1.0	-	-	-	-	.97	1.93	2.5	.48	1.90	-	.76	3.05	-	.78	1.57	3.14	7.17	17.86	-
319	42.2	1.20	1.20 <sup>+</sup>	.5	.17	1.04	-	.5	.55	{.19 <sup>+</sup> .48	2.0	.37	1.24	-	.74	2.98	-	.91	3.31	6.40	7.25	11.85	1.68
109	57.2	1.95	{3.74 <sup>+</sup> 3.90	1.0	.21	.83	-	.4	.55	2.18	1.9	.56	1.99	-	1.11	4.44	-	.91	2.50	4.43	7.79	17.77	.74
209	28.9	2.76	12.86	1.0	.11	.43	-	.2	.62	2.47	2.0	.56	2.18	-	1.14	4.46	-	2.14	1.41	2.83	8.74	25.23	-
104	57.2	1.66	8.32	1.0	-	-	-	-	.65	3.06	3.0	.85	2.80	-	1.20	4.79	-	1.81	3.70	4.88*	9.87	23.85	-
Average	45.8	1.24	4.03	.76	.21	.57	.09	.6	.39	{1.32 <sup>+</sup> .06	1.7	.46	1.43	.07	.69	1.96	.14	.94	2.05	3.68	5.99 <sup>d</sup>	13.00	.74

X Times over

+ Tractor hours

\*Truck or auto and trailer used for hauling part or all of the grain from the thresher

a. Includes .06 man and .23 horse hours rolling & pulverizing

b. " .15 " " .15 tractor hours " " "

c. Also used tractor .28 hours plowing.

d. Includes .01 man, .01 tractor and .01 horse hrs. rolling, etc.

Cost and Return per Acre of Barley  
Stevens County, 1932

Farm No.	HOURS									COST							Cost				
	Before Harvest			Harvesting			Total			Man Labor	Horse & Tr.	Seed	Twine	Thresh- ing	Manure	Mach- inery	Land	Total	Yld. per bu.	per bu.	Crop Value*
113	.9	1.6	.5	3.6	3.6	.4	4.5	5.2	.9	\$.67	\$ .92	\$1.00	\$.22	\$1.10	\$ -	\$.90	\$2.50	\$7.31	36.6	\$.20	\$6.95
201	1.1	2.4	.6	3.9	4.8	.3	5.0	7.2	.9	.75	1.10	1.06	.22	1.02	.15	.93	2.50	7.73	34.0	.23	6.46
118	2.6	11.3	-	4.8	8.9	-	7.4	20.2	-	1.11	1.41	.94	.24	1.00	.44	.90	2.50	8.54	35.0	.24	6.65
119	2.5	11.4	-	3.1	5.3	-	5.6	16.7	-	.85	1.17	1.02	.20	1.01	.77	.90	2.50	8.42	33.8	.25	6.42
108	2.6	6.3	1.3	3.2	3.2	.3	5.8	9.5	1.6	.87	1.70	1.14	.16	1.04	.55	.90	2.50	8.86	34.6	.26	6.57
105	3.3	18.0	-	3.9	7.7	-	7.2	25.7	-	1.08	1.80	1.00	.20	.93	.21	.91	2.50	8.63	33.2	.26	6.31
109	2.8	8.1	.8	4.5	7.6	-	7.3	15.7	.8	1.09	1.60	.87	.21	.90	.26	.90	2.50	8.33	30.1	.28	5.72
219	1.6	6.4	-	3.5	5.5	.1	5.1	11.9	.1	.77	.95	.95	.16	.80	.47	.90	2.50	7.50	26.5	.28	5.04
120	1.6	-	1.6	4.3	4.3	.4	5.9	4.3	2.0	.88	1.81	1.03	.23	.98	.95	.90	2.50	9.28	32.5	.28	6.18
319	1.4	6.6	-	8.6	15.9	-	10.0	22.5	-	1.49	1.58	1.10	.23	.99	.89	.90	2.50	9.68	33.2	.29	6.31
111	2.2	9.4	-	3.3	6.9	-	5.5	16.3	-	.82	1.14	.96	.18	.52	.42	.90	2.50	7.44	25.2	.30	4.79
218	1.3	-	1.3	2.6	3.0	.3	3.9	3.0	1.6	.58	1.47	.91	.12	.74	.10	.90	2.50	7.32	24.8	.30	4.71
301	2.3	8.5	-	4.0	7.6	-	6.3	16.1	-	.95	1.13	1.24	.18	.73	.32	.90	2.50	7.95	26.4	.30	5.02
103	1.0	2.9	.3	3.2	2.7	.3	4.2	5.6	.6	.63	.90	.87	.12	.69	1.24	.90	2.50	7.85	22.9	.34	4.35
126	3.1	13.7	-	4.2	6.6	-	7.3	20.3	-	1.10	1.42	1.16	.17	.63	.28	.90	2.50	8.16	21.7	.38	4.12
313	1.8	1.5	1.4	2.5	1.8	.4	4.3	3.3	1.8	.64	1.39	.93	.13	.30	.20	.92	2.50	7.01	16.2	.43	3.08
203	1.8	2.4	1.1	4.4	5.0	.3	6.2	7.4	1.4	.94	1.85	1.08	.14	.55	.46	.90	2.50	8.42	18.5	.45	3.52
213	1.7	2.8	.9	2.5	3.2	.4	4.2	6.0	1.3	.63	1.29	1.15	.14	.47	.76	.90	2.50	7.84	15.8	.50	3.00
209	3.8	17.1	-	3.3	6.4	-	7.1	23.5	-	1.06	1.64	1.01	.14	.51	.76	.90	2.50	8.52	17.0	.50	3.23
104	3.7	17.0	-	7.4	9.9	-	11.1	26.9	-	1.67	1.88	.86	.13	.60	1.59	.90	2.50	10.13	20.1	.51	3.82
123	2.0	2.3	1.4	1.7	4.0	-	3.7	6.3	1.4	.56	1.56	.76	.07	.28	.22	.90	2.50	6.85	9.3	.73	1.77
Aver.	2.2	7.1	.5	3.9	5.9	.2	6.1	13.0	.7	.91	1.42	1.00	.17	.75	.53	.90	2.50	8.18	26.1	.31	4.96

\* Crop value at December 1 price of 19¢ per bu.

Hours of Man Labor and Horse and Tractor Work Used per Acre  
of Barley, Stevens County, 1932

Farm No.	Yld. bu.	Plowing				Disking & Spring-tooth harrowing				Harrowing			Seeding		Cutting			Shock.			Threshing			Total		
		Man	Hse.	Tr.	X	Man	Hse.	Tr.	X	Man	Hse.	X	Man	Hse.	Man	Hse.	Tr.	Man	Man	Hse.	Man	Hse.	Tr.			
123	9.3	1.11	-	1.11	1.0	.29	-	.29	1.0	.06	.15	.1	.54	2.17	.64	2.54	-	.31	.80	1.43	3.75	6.29	1.40			
218	24.8	.63	-	.63	1.0	.27	-	.27	1.1	.11	.11 <sup>+</sup>	1.0	.30	.27 <sup>+</sup>	.29	-	.29	.72	1.57	3.04	3.89	3.04	1.57			
103	22.9	-	-	-	-	.30	-	.30	1.0	.24	.95	1.0	.48	1.92	.90	-	.32	.90	1.34	2.71	4.16	5.58	.62			
213	15.8	.45	-	.45	.5	.30	-	.30	.7	.20	.20 <sup>+</sup>	1.5	.70	2.80	.40	-	.40	.57	1.58	3.15	4.20	5.95	1.35			
313	16.2	.79	-	.79	.7	.53	1.48	.14	1.2	-	-	-	.44	.42 <sup>+</sup>	.88	-	.44	.66	.95	1.78	4.25	3.26	1.79			
113	36.6	-	-	-	-	.43	-	.43	2.0	.09	.09 <sup>+</sup>	1.0	.40	1.59	.34	-	.34	.96	2.24	3.59	4.46	5.18	.86			
201	34.0	.37	-	.37	-	.29	.27	.22	.9	.14	.84	1.0	.35	1.32	.57	.95	.33	.99	2.34	3.86 <sup>*</sup>	5.05	7.24	.92			
219	26.5	-	-	-	-	.96	3.82	-	2.4	.20	.98	1.0	.42	1.58	.50	1.43	.15	1.08	1.97	4.05	5.13	11.86	.15			
111	25.2	.35	1.39	-	.1	.80	3.19	-	1.1	.38	2.29	1.0	.62	2.50	.87	3.47	-	.55	1.91	3.46	5.48	16.30	-			
119	33.8	1.06	5.44	-	1.0	.88	3.52	-	2.0	.19	.77	1.1	.42	1.66	.54	2.18	-	.82	1.74	3.11	5.65	16.68	-			
108	34.6	1.59	3.40	1.02	1.0	.24	.20	.17	1.2	.28	1.16 <sup>**</sup>	2.0	.44	1.52	.33	-	.33	.89	1.99	3.18	5.76	9.46	1.59			
120	32.5	.85	-	.85	1.0	.21	-	.21	1.0	.14	.14 <sup>+</sup>	1.0	.23	.23 <sup>+</sup>	.47	-	.47	1.43	2.38	4.28	5.85 <sup>a</sup>	4.28	2.04			
203	18.5	.80	-	.80	1.0	.19	-	.19	1.3	.33	1.32	2.0	.45	1.08 <sup>‡</sup>	.91	.20	.33	.82	2.75	4.85 <sup>*</sup>	6.25	7.45	1.43			
301	26.4	-	-	-	-	1.02	4.06	-	2.0	.71	1.85	2.0	.63	2.54	.78	3.10	-	.81	2.38	4.51	6.33	16.06	-			
209	17.0	2.60	12.40	-	1.0	.23	.92	-	.6	.40	1.61	1.8	.52	2.08	.78	3.17	-	.90	1.65	3.28	7.08	23.46	-			
105	33.2	2.11	12.74	-	1.0	.07	.30	-	.1	.50	3.10	2.0	.61	1.91	.76	3.03	-	.81	2.32	4.63	7.18	25.71	-			
109	30.1	1.57	3.46	.77	1.0	.14	.56	-	.3	.47	1.89	2.0	.61	2.17	.82	3.28	-	1.12	2.57	4.30	7.30	15.66	.77			
126	21.7	2.14	9.86	-	1.0	.06	.12	-	.2	.42	1.74	2.0	.51	2.04	.89	3.55	-	1.02	2.27	3.02 <sup>*</sup>	7.31	20.33	-			
118	35.0	.50	2.54	-	.2	.88	3.51	-	1.2	.33	1.65	1.0	.86	3.58	.96	3.85	-	1.12	2.71	5.07	7.36	20.20	-			
319	33.2	-	-	-	-	1.00	5.55	-	2.0	.16	.63	1.0	.20	.39	1.03	4.12	-	1.19	6.38	11.83	9.96	22.52	-			
104	20.1	1.79	8.95	-	1.0	.48	1.92	-	1.6	.69	3.10	3.0	.75	3.00	1.17	4.68	-	1.71	4.52	5.28	11.11	26.93	-			
Ave.	26.1	.89	2.87	.32	.59	.45	1.40	.12	1.20	.29	1.14 <sup>+</sup>	1.36	.50	1.71 <sup>+</sup>	.71	1.88	.16	.92	2.30	4.02	6.07 <sup>b</sup>	13.02	.69			

X Times over

+ Tractor hours

\*Truck or auto and trailer used in hauling all or part of the grain from the thresher.

\*\*Also used tractor .07 hours.

‡ Also used tractor .11 hours in seeding.

a Includes .14 man and .14 tractor hours rolling

b Includes .01 man and .01 tractor hours rolling



Cost and Return per acre of Wheat  
Stevens County, 1932

Farm No.	Hours									Cost								Yield bu.	Cost per bu.	Crop value*	
	Before Harvest			Harvesting			Total			Man labor	Horse & trac.	Seed	Twine	Thresh- ing	Man- ure	Mach- inery	Land				Total
	Man	Horse	Trac.	Man	Horse	Trac.	Man	Horse	Trac.												
108	1.4	2.5	.8	5.4	6.4	.3	6.8	8.9	1.1	\$1.01	\$1.36	\$1.10	\$.23	\$1.20	\$.46	\$.91	\$2.50	\$8.77	24.0	\$.36	\$8.64
102	1.4	3.4	.7	3.1	5.2	-	4.5	8.6	.7	.67	1.14	.97	.18	1.02	.30	.91	2.50	7.69	20.6	.37	7.42
301	2.1	7.3	-	3.0	6.2	-	5.1	13.5	-	.76	.94	.94	.14	.66	.32	.90	2.50	7.16	14.0	.51	5.04
119	1.3	5.1	-	2.1	3.5	-	3.4	8.6	-	.51	.60	1.01	.12	.69	.77	.90	2.50	7.10	13.7	.52	4.93
219	2.9	8.6	1.0	2.6	3.7	.3	5.5	12.3	1.3	.82	1.91	.81	.13	.78	.47	.90	2.50	8.32	15.5	.54	5.58
104	3.8	16.7	-	4.7	6.8	-	8.5	23.5	-	1.27	1.65	.73	.24	.68	1.60	.95	2.50	9.62	17.5	.55	6.30
201	1.7	5.2	.6	3.5	4.9	.3	5.2	10.1	.9	.77	1.43	.88	.15	.67	.19	.93	2.50	7.52	13.4	.56	4.82
109	3.3	6.2	1.6	3.4	6.3	-	6.7	12.5	1.6	1.00	1.91	.86	.24	.73	.26	.90	2.50	8.40	14.7	.57	5.29
120	1.6	-	1.5	2.6	3.2	.4	4.2	3.2	1.9	.63	1.61	1.01	.14	.64	-	.92	2.50	7.45	12.8	.58	4.61
101	3.9	16.4	-	3.4	7.1	-	7.3	23.5	-	1.09	1.64	1.02	.15	.67	-	.90	2.50	7.97	13.0	.61	4.68
113	2.4	2.8	1.6	2.1	1.7	.4	4.5	4.5	2.0	.67	1.62	1.07	.12	.59	-	.90	2.50	7.47	11.8	.63	4.25
126	3.7	16.9	-	4.0	5.7	-	7.7	22.6	-	1.15	1.58	1.02	.13	.64	.39	.90	2.50	8.31	12.5	.66	4.50
213	1.0	2.0	.5	2.9	3.4	.4	3.9	5.4	.9	.59	.94	.84	.10	.48	-	.90	2.50	6.35	9.5	.67	3.42
313	.7	-	.6	3.2	1.8	.5	3.9	1.8	1.1	.58	1.03	.94	.16	.53	-	1.06	2.50	6.80	9.9	.69	3.56
319	4.0	20.9	.1	7.1	11.1	-	11.1	32.0	.1	1.66	2.30	1.37	.15	.64	-	.90	2.50	9.52	13.0	.73	4.68
123	2.1	4.8	.9	2.3	5.3	-	4.4	10.1	.9	.66	1.44	.96	.09	.49	.14	.90	2.50	7.18	9.8	.74	3.53
103	2.4	1.9	1.9	2.8	3.0	.3	5.2	4.9	1.9	.79	2.29	.98	.06	.38	-	.90	2.30	7.90	7.7	1.02	2.77
Average	2.3	7.1	.7	3.4	5.0	.2	5.7	12.1	.9	.85	1.49	.97	.15	.68	.29	.92	2.50	7.85	13.7	.57	4.93

\*Crop value at December 1 price of 36¢ per bushel.

Hours of Man Labor and Horse and Tractor Work Used  
per Acre of Wheat. Stevens County, 1932

Farm No.	Yld. Bu.	Plowing			Disking & Spring tooth harrowing			Harrowing			Seeding		Cutting			Shock Threshing			Total			
		Man	Hse.	Tr.	X	Man	Hse.	X	Man	Hse.	X	Man	Hse.	Man	Hse.	Trac.	Man	Hse.	Man	Hse.	Trac.	
313	9.9	-	-	-	-	.33	.33+	2.0	-	-	-	.33	.28+	1.03	-	.53	1.01	1.17	1.84*	3.87	1.84	1.14
119	13.7	-	-	-	-	.43	1.70	1.0	.43	1.70	2.0	.43	1.70	.45	1.79	-	.63	1.05	1.75	3.42	8.64	-
213	9.5	-	-	-	-	.49	.49+	2.0	-	-	-	.53	1.97	.38	-	.38	.69	1.81	3.43	3.90	5.40	.67
120	12.8	.75	-	.75	1.0	.29	.29+	1.0	.10	.10+1.0	.29	.28+	.34	-	.34	.55	1.75	3.17*	4.19 <sup>a</sup>	3.17	1.88	
123	9.8	.75	-	.75	.7	.17	.17+	.6	.54	2.33	2.0	.60	2.40	.78	3.14	-	.47	1.10	2.19	4.41	10.06	.92
113	11.8	1.49	-	1.49	1.0	-	-	-	.46	{.16+ 1.35	2.0	.38	1.51	.35	-	.35	.75	1.03	1.67	4.46	4.53	2.00
102	20.6	.57	-	.57	1.0	-	-	-	.37	1.99	2.0	.34	1.36	.48	1.94	-	.56	2.06	3.29*	4.48	8.58	.67
301	14.0	-	-	-	-	1.08	4.34	2.0	.50	.99	1.0	.49	1.98	.77	3.10	-	.68	1.57	3.12	5.09	13.53	-
103	7.7	1.25	-	1.25	1.0	.39	.39+	1.0	.47	1.89	2.0	.25	.25+	.84	-	.28	.49	1.49	2.98	5.18	4.87	2.17
201	13.4	1.06	2.94	.47	.8	.16	{.03 .16+	.7	.20	1.16	1.3	.31	1.08	.56	1.10	.29	.69	2.22	3.75*	5.20	10.06	.92
219	15.5	2.08	5.20	1.04	1.0	-	-	-	.38	1.90	2.0	.44	1.46	.50	.92	.27	.49	1.58	2.82	5.47	12.30	1.31
109	14.7	1.60	-	1.60	1.0	.46	1.84	1.0	.52	2.00	2.0	.66	2.32	.72	2.88	-	.66	2.07	3.42	6.69	12.46	1.60
108	24.0	-	-	-	-	.79	.79+	2.0	.15	.61	1.0	.48	1.88	.71	-	.35	.51	3.90	6.36*	6.84	8.85	1.14
101	13.0	2.44	12.31	-	1.0	-	-	-	.71	2.20	2.0	.75	1.86	1.05	4.10	-	.88	1.49	2.99	7.32	23.45	-
126	12.5	2.00	9.98	-	1.0	.31	1.26	.3	.80	3.22	2.0	.60	2.38	.88	3.50	-	1.40	1.67	2.24*	7.66	22.58	-
104	17.5	2.71	12.42	-	1.0	-	-	-	.45	2.24	3.0	.64	2.07	.99	3.98	-	1.43	2.24	2.62*	8.46	23.53	-
319	13.0	2.74	16.46	-	1.0	-	-	-	.70	{2.39 .10+	2.0	.52	2.09	.77	3.09	-	2.09	4.25	7.94	11.07	31.97	.10
Ave.	13.7	1.15	3.49	.47	.7	.29	{.54 .15+	.8	.40	{1.53 .02+	1.5	.48	{1.53 .05+	.68	1.74	.17	.84	1.90	3.28	5.74	12.11	.86

+ Tractor hours

X Times acreage was covered

\* Truck or auto and trailer used for hauling all or part of grain from the thresher.

<sup>a</sup> Totals include .12 man and .12 tractor hours rolling and pulverizing.

16

Cost and Return per Acre of Oats and Wheat  
Stevens County, 1932

Farm No.	HOURS									COST									* Cost		
	Before Harvest			Harvesting			Total			Man Labor	Horse & Tr.	Seed	Twine	Thresh- ing	Manure	Mach- inery	Land	Total	Yld. bu.	per Crop bu.	value**
108	1.8	2.2	1.1	4.6	5.4	.3	6.4	7.6	1.4	\$.96	\$1.46	\$1.10	\$.16	\$1.26	\$-	\$1.16	\$2.50	\$8.60	50.6	17.0	\$8.10
201	.6	1.4	.3	3.4	4.2	.3	4.0	5.6	.6	.59	.83	1.01	.21	.91	.14	.88	2.50	7.07	36.6	19.3	5.86
118	3.1	14.4	-	4.1	7.5	-	7.2	21.9	-	1.09	1.53	.92	.22	.83	.28	.90	2.50	8.27	36.3	22.8	5.81
123	1.3	4.1	.3	3.5	6.7	-	4.8	10.8	.3	.72	1.00	1.28	.20	.80	.40	.90	2.50	7.80	32.2	24.2	5.15
301	3.1	9.5	-	3.1	6.1	-	6.2	15.6	-	.93	1.09	.79	.09	.74	.32	.90	2.50	7.36	29.6	24.9	4.74
208	2.2	8.7	-	3.3	6.1	-	5.5	14.8	-	.82	1.04	1.34	.22	.82	.56	.90	2.50	8.20	32.9	24.9	5.26
111	4.0	15.6	-	3.7	7.3	-	7.7	22.9	-	1.16	1.60	.98	.19	.96	.42	.90	2.50	8.71	32.1	27.2	5.14
119	2.8	11.4	.1	2.4	3.9	.1	5.2	15.3	.2	.78	1.24	.75	.12	.67	.55	.90	2.50	7.51	26.9	27.9	4.30
126	3.5	16.2	-	4.0	5.8	-	7.5	22.0	-	1.13	1.54	.74	.17	.64	.28	.90	2.50	7.90	26.8	29.5	4.29
Ave.	2.5	9.3	.2	3.6	5.9	.1	6.1	15.2	.3	.91	1.26	.98	.18	.85	.33	.93	2.50	7.94	33.8	23.5	5.41

\* At 40 lb. per bu.

\*\* Crop value at December 1 price of 16¢ per bu.

Hours of Man Labor and Horse and Tractor Work Used per Acre of Oats and Wheat  
Stevens County, 1932

Farm No.	Yld. Bu.*	Plowing		X	Disking and Spring-tooth harrowing			Harrowing			Seeding		Cutting		Shock		Threshing		Total		
		Man	Horse		Man	Horse	X	Man	Horse	X	Man	Horse	Man	Horse	Tr.	Man	Man	Horse	Man	Horse	Tractor
201	36.6	-	-	-	.37	.27+	2.0	.12	.73	1.0	.15	.30	.76	1.19	.30	.81	1.78	2.97	3.99	5.57	.57
123	32.2	-	-	-	.30	.38	2.0	.27	1.07	1.0	.75	2.98	.72	2.87	-	.59	2.15	3.90	4.78	10.82	.30
119	26.9	1.12	.12+	1.0	.69	2.76	1.3	.54	2.05	1.7	.41	1.66	.52	1.51	.08	.55	1.37	2.39	5.20	15.35	.20
208	32.9	.82	3.27	1.0	.34	1.36	1.0	.52	2.08	2.0	.51	2.05	.44	1.76	-	.69	2.14	4.28	5.46	14.80	-
301	29.6	1.24	3.72	.5	.45	1.80	.7	.99	2.16	2.0	.46	1.84	.74	2.97	-	.64	1.70	3.10	6.22	15.59	-
108	50.6	.78	.78+	.4	.39	.33+	1.6	.15	.56	1.0	.48	1.47	.70	.30	.32	.68	3.22	5.07	6.40	7.61	1.43
118	36.3	1.58	7.88	.6	.23	.21	.4	.49	2.46	1.6	.85	3.09	.77	3.07	-	.93	2.40	4.46	7.25	21.87	-
126	26.8	2.36	11.82	1.0	-	-	-	.36	1.46	2.0	.73	2.92	.86	3.44	-	1.38	1.80	2.41	7.49	22.05	-
111	32.1	2.64	10.55	1.0	.40	1.03	1.0	.35	1.74	1.5	.58	2.32	.79	3.17	-	.79	2.18	4.09	7.73	22.90	-
Ave.		1.17	(4.69	.6	.35	(.94	1.1	.42	1.59	1.5	.55	2.07	.70	2.25	.08	.79	2.08	3.63	6.06	15.17	.28
			(.10+			(.10+															

\* At 40 lbs. per bushel  
X Times acreage was covered  
+ Tractor hours

Cost and Return per Acre of Flax  
Stevens County, 1932

Farm No.	HOURS						COST										Cost				
	Before Harvest			Harvesting			Total			Man Labor	Horse & Tr.	Seed	Twine	Thre- shing	Mach- inery	Land	Total	Yld. bu.	per Crop bu.	Value*	
102	1.6	4.4	.7	4.3	6.9	-	5.9	11.3	.7	\$.88	\$1.32	\$.95	\$.22	\$1.31	.30	\$1.07	\$2.50	\$8.55	15.1	\$.57	\$11.93
105	2.2	8.8	-	4.6	6.2	.3	6.8	15.0	.3	1.03	1.26	.87	.24	1.15	.21	.90	2.50	8.16	12.9	.63	10.19
103	1.4	1.9	.9	3.9	3.1	.4	5.3	5.0	1.3	.79	1.32	.89	.15	.83	-	1.10	2.50	7.58	10.3	.73	8.14
108	3.2	13.7	.7	4.0	3.7	.5	7.2	17.4	1.2	1.09	2.03	1.03	.15	.95	.62	1.34	2.50	9.71	11.9	.82	9.40
208	1.6	6.1	-	3.6	6.1	-	5.2	12.2	-	.79	.87	.82	.18	.82	.63	1.10	2.50	7.71	8.7	.59	6.87
119	2.7	11.9	-	2.9	6.0	-	5.6	17.9	-	.84	1.26	.79	.14	.69	.78	.90	2.50	7.90	8.7	.91	6.87
218	1.3	-	1.3	3.3	3.7	.3	4.6	3.7	1.6	.68	1.53	.85	.18	.64	.10	.96	2.50	7.44	8.0	.93	6.32
201	2.2	5.4	1.0	3.2	3.1	.5	5.4	8.5	1.5	.81	1.76	.73	.18	.67	.14	1.02	2.50	7.81	8.3	.94	6.56
203	3.5	3.0	2.8	4.5	2.5	.4	8.0	5.5	3.2	1.20	2.87	.61	.20	.69	-	1.09	2.50	9.16	8.6	1.01	6.79
109	5.2	17.2	1.1	4.3	6.8	-	9.5	24.0	1.1	1.43	2.39	.82	.14	.68	.10	1.03	2.50	9.09	8.6	1.06	6.79
219	2.3	13.4	.2	2.9	4.7	.2	5.2	18.1	.4	.78	1.62	1.01	.10	.58	.64	1.07	2.50	8.30	7.2	1.15	5.69
120	1.4	-	1.4	3.8	5.8	.5	5.2	5.8	1.9	.79	1.77	.88	-	.48	.09	1.10	2.50	7.61	6.2	1.23	4.90
101	4.2	19.2	-	3.7	7.7	-	7.9	26.9	-	1.18	1.88	1.17	.14	.63	-	.91	2.50	8.41	6.8	1.24	5.37
113	2.6	2.5	1.9	2.7	3.0	.5	5.3	5.5	2.4	.79	1.94	.94	.15	.41	.32	.90	2.50	7.95	5.2	1.54	4.11
111	7.4	32.2	-	4.4	7.7	-	11.8	39.9	-	1.76	2.79	.94	.16	.71	.43	1.09	2.50	10.38	6.1	1.70	4.82
213	1.1	2.1	.6	2.6	2.4	.4	3.7	4.5	1.0	.56	.98	.77	.11	.28	.76	.96	2.50	6.92	3.4	2.01	2.69
104	14.1	36.7	-	6.9	12.7	-	21.0	49.4	-	3.14	3.46	1.18	.30	.46	2.60	.90	2.50	14.54	5.8	2.49	4.58
123	1.1	2.1	.6	1.9	4.4	-	3.0	6.5	.6	.46	.96	1.32	.07	.22	.24	.90	2.50	6.67	2.4	2.76	1.90
313	3.8	5.2	2.5	3.5	2.9	.6	7.3	8.1	3.1	1.09	2.59	1.04	.08	.32	.25	.91	2.50	8.78	3.0	2.94	2.37
Aver.	3.3	9.8	.8	3.7	5.2	.3	7.0	15.0	1.1	1.06	1.82	.93	.15	.66	.43	1.01	2.50	8.56	7.7	1.11	6.08

\* Crop value at December 1 price of \$.79 per bu.

Hours of Man Labor and Horse and Tractor Work Used per Acre  
of Flax. Stevens County, 1932.

Farm No.	Yld. bu.	Plowing				Disking and Springtooth Harrowing				Harrowing			Seeding		Cutting		Shock.	Threshing		Total		
		Man	Hse.	Tr.	X	Man	Hse.	Tr.	X	Man	Hse.	X	Man	Hse.	Man	Hse.	Man	Man*	Hse.	Man	Hse.	Tr.
123	2.4	.36	-	.36	.4	.27	-	.27	1.42	-	-	-	.52	2.10	.65	2.58	.37	.88	1.77	3.05	6.45	.63
213	3.4	-	-	-	-	.45	-	.45	2.00	.15	.15 <sup>+</sup>	1.0	.52	2.10	.43	.42 <sup>+</sup>	.57	1.60	2.39	3.72	4.49	1.02
218	8.0	.34	-	.34	.5	.48	-	.48	2.00	.15	.15 <sup>+</sup>	1.5	.30	.30 <sup>+</sup>	.30	.30 <sup>+</sup>	.69	2.29	3.73	4.55	3.73	1.57
219	7.2	1.45	9.86	.23	1.0	.22	.85	-	.53	.21	1.01	1.5	.41	1.71	.69	1.21 <sup>+</sup>	.44	1.77	2.93	5.19	18.09	.44
120	6.2	.68	-	.68	1.0	.27	-	.26	1.46	.02	.02 <sup>+</sup>	.1	.20	.20 <sup>+</sup>	.45	.45 <sup>+</sup>	.03	3.32	5.84	5.23 <sup>(1)</sup>	5.84	1.87
103	10.3	-	-	-	-	.57	-	.57	2.00	.47	1.87	2.0	.34	.34 <sup>+</sup>	1.20	.39 <sup>+</sup>	.58	2.12	3.14	5.28	5.01	1.30
113	5.2	1.50	-	1.50	1.0	.47	.59	.34	1.69	.19	.09 <sup>+</sup>	1.0	.39	1.56	.47	.47 <sup>+</sup>	.58	1.68	2.96	5.28	5.48	2.40
208	8.7	-	-	-	-	.90	3.59	-	2.00	.25	1.01	1.0	.41	1.46	.66	2.63	.89	2.21	3.68	5.32	12.37	-
201	8.3	.97	-	.97	.8	.27	1.28	-	.63	.35	1.99	1.6	.55	2.11	.67	.49 <sup>+</sup>	.66	1.89	3.06	5.36	8.52	1.46
119	8.7	1.26	6.31	-	1.0	.54	2.15	-	1.00	.24	.97	1.0	.45	1.81	.56	2.23	.51	1.87	3.75	5.61 <sup>(2)</sup>	17.94	-
102	15.1	.67	-	.67	1.0	.17	.65	-	.30	.33	1.93	2.3	.35	1.41	.61	2.39	.86	2.78	4.54	5.86 <sup>(3)</sup>	11.27	.67
105	12.9	.85	1.02	-	.1	1.03	4.11	-	2.00	.43	1.90	1.9	.44	1.73	.80	.25 <sup>+</sup>	1.05	2.83	5.05	6.83	14.97	.26
108	11.9	1.94	9.90	.29	1.0	.47	-	.47	1.21	.40	2.18	1.8	.41	1.65	.47	.48 <sup>+</sup>	.78	2.77	3.65	7.24	17.38	1.24
313	3.0	1.42	-	1.42	-	1.58	3.37	.84	6.00	.22	1.30	1.0	.24	.24 <sup>+</sup>	1.20	.60 <sup>+</sup>	.51	1.73	2.89	7.29 <sup>(4)</sup>	8.14	3.10
101	6.8	2.67	13.36	-	1.0	-	-	-	-	.62	2.49	2.0	.85	3.38	.98	3.92	.36	2.41	3.74	7.89	26.89	-
203	8.6	.79	-	.79	1.0	1.46	-	1.46	3.00	.74	3.00	5.0	.52	.52 <sup>+</sup>	1.13	.41 <sup>+</sup>	1.15	2.21	2.54	8.00	5.54	3.18
109	8.6	2.39	6.24	1.09	1.4	1.34	5.37	-	1.59	.78	3.00	1.6	.74	2.62	1.09	4.35	.40	2.71	2.32	9.45	23.90	1.09
111	6.1	3.21	12.83	-	1.0	2.09	8.34	-	2.68	1.34	8.02	5.4	.75	3.00	.96	3.85	.80	2.62	3.85	11.77	39.89	-
104	5.8	11.54	25.99	-	1.0	.80	3.18	-	1.00	1.06	4.91	5.0	.66	2.64	1.59	6.36	1.59	3.71	6.37	20.95	49.45	-
Average	7.7	1.66	4.50	.44	.7	.71	1.76	.27	1.71	.42	1.89	1.9	.48	1.54	.78	1.65	.67	2.28	3.59	7.04 <sup>(5)</sup>	15.02	1.07

X Times over

\*Truck or auto and trailer used in hauling part or all of the flaxseed from the thresher on all farms except No. 123, 113 & 119.

+Tractor hours.

- (1) Includes .26 man and tractor hours rolling & pulverizing (5) Includes .04 man, .09 horse, and .01 tractor hours rolling, etc.  
 (2) " .18 " " .72 horse hours " " "  
 (3) " .09 " " .35 " " "  
 (4) " .29 " " .58 " " "

Cost and Return per Acre of Alfalfa Hay  
Stevens County, 1932

Farm no.	Hours					Costs					Yield tons	Cost per ton	Crop value+				
	1st Cutting		2nd Cutting		Total		Man labor	Horse work	Seed	Man-ure				Mach-inery	Land	Total	
	Man	Horse	Man	Horse	Man	Horse											Per cent*
102	5.4	8.9	2.8	4.7	100	8.2	13.6	\$1.23	\$.95	\$.60	\$.30	\$1.35	\$2.50	\$6.93	1.8	\$3.90	\$10.80
105	7.0	7.8	2.4	4.8	100	9.4	12.6	1.40	.88	.60	1.70	1.35	2.50	8.43	1.9	4.35	11.40
201	3.9	8.0	-	-	-	3.9	8.0	.58	.56	.60	.14	.80	2.50	5.18	1.1	4.65	6.60
119	3.0	5.2	1.2	2.2	81	4.2	7.4	.62	.52	.60	.78	1.25	2.50	6.27	1.3	4.72	7.80
209	5.5	9.0	2.7	4.2	100	8.2	13.2	1.22	.92	.60	.73	1.35	2.50	7.32	1.2	5.99	7.20
301	3.7	4.8	.5	1.0	19	4.2	5.8	.62	.40	.60	.32	.91	2.50	5.35	.9	6.20	5.40
108	4.7	7.8	2.0	3.1	69	6.7	10.9	1.01	.76	.60	.57	1.18	2.50	6.62	.9	6.48	5.40
118	3.7	7.4	1.8	3.1	100	5.5	10.5	.82	.73	.60	.18	1.35	2.50	6.18	.8	7.75	4.80
126	2.6	4.2	1.8	2.8	57	4.4	7.0	.67	.49	.60	.28	1.12	2.50	5.66	.7	8.18	4.20
109	4.4	7.6	.7	1.5	31	5.1	9.1	.77	.64	.60	.19	.97	2.50	5.67	.7	8.36	4.20
104	6.0	10.8	5.1	8.4	100	11.1	19.2	1.66	1.34	.60	1.61	1.35	2.50	9.06	1.0	8.89	6.00
123	3.4	6.8	1.8	3.4	76	5.2	10.2	.78	.71	.60	-	1.22	2.50	5.81	.6	10.22	3.60
111	3.1	5.8	-	-	-	3.1	5.8	.47	.41	.60	.42	.80	2.50	5.20	.5	10.79	3.00
203	4.2	6.2	2.4	4.9	100	6.6	11.1	.99	.78	.60	.83	1.35	2.50	7.05	.6	12.60	3.60
208	3.1	4.5	.4	.7	8	3.5	5.2	.53	.36	.60	.55	.85	2.50	5.39	.4	12.72	2.40
213	3.4	6.9	1.2	2.3	100	4.6	9.2	.69	.65	.60	-	1.35	2.50	5.79	.4	16.44	2.40
Average	4.2	7.0	1.7	2.9	.65	5.9	9.9	.88	.69	.60	.54	1.16	2.50	6.37	.9	7.08	5.40

\*Per cent of acreage cut the second time.

+At December 1 price of \$6.00 per ton.

Hours of Man Labor and Horse Work Used per Acre of Alfalfa Hay - First Cutting  
Stevens County, 1932

Farm no.	Yield tons	Cultivating		Cutting		Raking & Cocking		Hauling to Barn			Stacking			Total	
		Man	Horse	Man	Horse	Man	Horse	Man	Horse	% of acreage	Man	Horse	% of acreage	Man	Horse
126	.5	-	-	.88	1.75	.55	1.11	-	-	-	1.20	1.38	100	2.63	4.24
119	1.0	-	-	.85	1.69	.67	1.35	1.48	2.15	100	-	-	-	3.00	5.19
208	.4	-	-	.78	1.56	.32	.64	-	-	-	1.95	2.25	100	3.05	4.45
111	.5	.40	1.60	.97	1.93	.48	.96	-	-	-	1.29	1.29	100	3.14	5.78
123	.4	-	-	1.11	2.22	.65	1.31	.06	.12	.8	1.58	3.16	92	3.40	6.81
213	.3	-	-	1.56	3.13	.47	.94	1.41	2.82	100	-	-	-	3.44	6.89
301	.7	-	-	.86	1.73	.83	.86	1.96	2.19	100	-	-	-	3.65	4.78
118	.6	-	-	1.33	2.66	.84	1.68	1.51	3.02	100	-	-	-	3.68	7.36
201	1.1	.31	1.22	.54	1.08	.46	.94	2.56	4.79	100	-	-	-	3.87	8.03
203	.5	-	-	1.16	2.31	.68	1.36	2.32	2.54	100	-	-	-	4.16	6.21
109	.6	.15	.61	1.18	2.36	1.17	1.60	1.92	3.06	100	-	-	-	4.42	7.63
108	.7	-	-	.93	1.86	.60	1.20	3.17	4.77	100	-	-	-	4.70	7.83
102	1.1	-	-	1.22	2.43	.71	1.42	3.45	5.07	100	-	-	-	5.38	8.92
209	.8	-	-	1.07	1.99	.92	1.84	.42	1.08	12	3.04	4.05	.88	5.45	8.96
104	.7	.19	.76	2.17	4.34	.60	1.20	-	-	-	3.03	4.49	100	5.99	10.79
105	1.6	-	-	1.07	2.15	1.37	1.04	4.56	4.61	100	-	-	-	7.00	7.80
Average	.7	.07	.26	1.11	2.20	.71	1.20	1.55	2.26	64	.75	1.04	36	4.19	6.98

1  
23  
20  
1



Hours of Man Labor and Horse Work Used per Acre of Alfalfa Hay - Second Cutting  
Stevens County, 1932

Farm no.	Yield tons	Cutting		Raking		Hauling to Barn			Stacking			Total	
		Man	Horse	Man	Horse	Man	Horse	% of acreage	Man	Horse	% of acreage	Man	Horse
213	*	.62	1.25	.39	.78	.16	.31	100	-	-	-	1.17	2.34
119	.4	.70	1.40	.35	.89	.38	.65	100	-	-	-	1.43	2.74
118	.2	.88	1.77	.40	.80	.49	.53	-	-	-	-	1.77	3.10
123	.2	.86	1.73	.45	.89	1.01	1.83	100	-	-	-	2.32	4.45
105	.3	.83	1.66	.34	.69	-	-	-	1.20	2.39	100	2.37	4.74
109	.2	1.14	2.27	.42	.85	.85	1.70	100	-	-	-	2.41	4.82
203	.2	1.30	2.61	.45	.89	.69	1.38	100	-	-	-	2.44	4.88
301	.7	1.39	2.78	.52	1.04	.69	1.39	100	-	-	-	2.60	5.21
209	.4	.93	1.87	.47	.93	1.31	1.40	100	-	-	-	2.71	4.20
102	.7	1.01	2.03	.81	1.62	1.01	1.01	100	-	-	-	2.83	4.66
108	.4	.96	1.93	.61	1.22	1.39	1.37	100	-	-	-	2.96	4.52
126	.3	1.13	2.26	.49	.97	-	-	-	1.62	1.62	100	3.24	4.85
104	.3	1.59	3.18	.83	1.66	-	-	-	2.68	3.57	100	5.10	8.41
208	.3	1.73	3.45	1.03	2.07	-	-	-	3.10	3.45	100	5.86	8.97
Average		1.08	2.16	.54	1.08	.57	.82	71	.61	.79	29	2.80	4.85

\*Less than .1 ton per acre.

Cost and Return per Acre of Wild Hay  
Stevens County, 1932

Farm no.	Hours		Man labor	Horse work	Mach- inery	Land	Total cost	Yield tons	Cost per ton	Crop value*
	Man	Horse								
101	5.7	8.2	\$.85	\$.57	\$.70	\$1.50	\$3.62	1.3	\$2.70	\$2.50
104	12.5	19.9	1.87	1.39	.70	1.50	5.46	2.0	2.80	3.08
213	7.4	12.5	1.11	.87	.70	1.50	4.18	1.2	3.62	4.63
201	4.5	8.9	.67	.63	.70	1.50	3.50	.9	3.96	.88
102	3.5	6.9	.52	.49	.70	1.50	3.21	.8	4.01	1.60
208	2.9	3.7	.43	.26	.70	1.50	2.89	.7	4.13	2.81
123	3.8	7.5	.56	.53	.70	1.50	3.29	.8	4.16	1.03
101	3.5	6.9	.52	.48	.70	1.50	3.20	.8	4.27	3.00
126	7.7	9.8	1.15	.69	.70	1.50	4.04	.9	4.27	1.62
111	5.2	7.3	.79	.51	.70	1.50	3.50	.8	4.33	3.23
209	3.4	4.9	.51	.34	.70	1.50	3.05	.7	4.62	2.64
109	5.0	7.9	.76	.55	.70	1.50	3.51	.7	4.81	2.93
103	8.3	13.2	1.24	.93	.70	1.50	4.37	.9	4.87	1.79
219	5.2	11.0	.79	.77	.70	1.50	3.76	.7	5.34	2.22
118	6.6	12.3	.99	.86	.70	1.50	4.05	.7	5.40	3.00
203	8.9	13.4	1.33	.94	.70	1.50	4.47	.8	5.50	2.03
119	2.6	3.8	.39	.26	.70	1.50	2.85	.5	5.73	1.84
108	5.1	6.9	.77	.49	.70	1.50	3.46	.6	6.11	2.26
Average	5.7	9.2	.85	.64	.70	1.50	3.69	.9	4.10	2.39

\*At December 1 price of \$4.00 per ton for upland, \$2.00 for midland and \$1.00 for slough hay.

Hours of Man Labor and Horse Work Used per Acre of Wild Hay  
Stevens County, 1932

Farm no.	Yield tons	Cutting		Raking		Hauling to Barn			Stacking			Total	
		Man	Horse	Man	Horse	Man	Horse	% of acreage	Man	Horse	% of acreage	Man	Horse
119	.5	.79	1.59	.45	.90	.09	.12	5	1.25	1.15	95	2.58	3.76
208	.7	.57	1.15	.32	.64	-	-	-	2.01	1.91	100	2.90	3.70
209	.7	.75	1.45	.40	.80	-	-	-	2.24	2.65	100	3.39	4.90
101	.8	1.30	2.60	.40	.80	-	-	-	1.75	3.50	100	3.45	6.90
102	.8	1.15	2.30	.35	.70	.07	.13	12	1.92	3.82	88	3.49	6.95
123	.8	1.22	2.43	.58	1.16	.36	.72	32	1.60	3.20	68	3.76	7.51
201	.9	1.73	3.46	.76	1.51	1.98	3.97	100	-	-	-	4.47	8.94
109	.7	.97	1.93	.47	.93	.14	.24	23	3.45	4.83	77	5.03	7.93
108	.6	1.35	2.70	.71	1.41	-	-	-	3.08	2.83	100	5.14	6.94
111	.8	1.13	2.27	.56	.80	.32	.32	34	3.22	3.87	66	5.23	7.26
219	.7	1.84	3.68	.60	1.19	2.81	6.11	100	-	-	-	5.25	10.98
301	1.3	1.43	2.86	.76	1.51	2.45	2.70	71	1.01	1.11	29	5.65	8.18
118	.7	1.43	2.86	1.06	1.57	4.08	7.87	100	-	-	-	6.57	12.30
213	1.2	1.16	2.31	.69	1.39	5.56	8.80	100	-	-	-	7.41	12.50
126	.9	1.59	3.18	.84	1.69	-	-	-	5.24	4.93	100	7.67	9.80
103	.9	1.57	3.14	.90	1.79	5.79	8.30	100	-	-	-	8.26	13.23
203	.8	2.40	4.80	.80	1.60	2.82	4.12	53	2.88	2.90	47	8.90	13.42
104	2.0	3.13	6.26	1.05	2.11	-	-	-	8.32	11.62	100	12.50	19.89
Average	.9	1.42	2.83	.65	1.25	1.47	2.41	40	2.11	2.68	59	5.65	9.17

Cost and Return per Acre of Fodder Corn  
Stevens County, 1932

Farm No.	HOURS									COST										Yld. ton	Cost per ton	Crop Value*
	Before Harvest			Harvesting			Total			Man	Horse	Seed	Twine	Manure	Mach- inery	Land	Total					
	Man	Hse.	Tr.	Man	Horse	Tr.	Man	Horse	Tr.	Labor	& Tr.											
105	5.2	17.3	-	4.3	6.9	9.5	24.2	-	\$1.42	\$1.69	\$.36	\$.33	\$.21	\$1.65	\$2.50	\$8.16	2.7	\$2.98	8.10			
218	5.7	23.4	.5	2.4	4.2	8.1	27.6	.5	1.22	2.32	.10	.14	.10	1.65	2.50	8.03	2.5	3.22	7.50			
319	8.8	25.9	.8	5.3	10.0	14.1	35.9	.8	2.11	3.00	.70	.47	.02	1.65	2.50	10.45	2.3	4.64	6.90			
123	4.6	10.6	1.5	4.5	7.1	9.1	17.7	1.5	1.37	2.44	.49	.31	.09	1.65	2.50	8.85	2.2	4.82	6.60			
119	8.6	26.3	.3	3.8	3.7	12.4	30.0	.3	1.87	2.32	.25	-	2.04	1.65	2.50	10.63	2.1	4.97	6.30			
108	7.4	12.8	3.1	4.3	5.6	11.7	18.4	3.1	1.76	3.28	.57	.25	-	1.65	2.50	10.01	1.9	5.16	5.70			
102	3.8	8.8	1.4	3.5	4.4	7.3	13.2	1.4	1.09	2.04	.42	.35	.88	1.65	2.50	8.93	1.7	5.34	5.10			
208	7.1	25.9	-	3.7	5.5	10.8	31.4	-	1.63	2.20	.32	.23	1.34	1.65	2.50	9.87	1.8	5.48	5.40			
313	4.7	11.5	2.1	3.4	4.5	8.1	16.0	2.1	1.21	2.53	.22	.18	.53	1.65	2.50	8.82	1.6	5.51	4.80			
101	9.4	36.0	-	5.4	7.2	14.8	43.2	-	2.23	3.03	.38	.28	.01	1.65	2.50	10.08	1.8	5.55	5.40			
201	5.7	22.8	.1	2.8	4.2	8.5	27.0	.1	1.28	2.01	.20	.21	.14	1.65	2.50	7.99	1.4	5.56	4.20			
118	8.2	31.3	-	3.6	4.9	11.8	36.2	-	1.77	2.53	.53	.32	.18	1.65	2.50	9.48	1.6	6.02	4.80			
203	4.8	10.5	2.0	3.9	5.2	8.7	15.7	2.0	1.30	2.90	.17	.16	1.65	1.65	2.50	10.33	1.7	6.04	5.10			
109	9.1	31.6	.2	1.7	5.2	10.8	36.8	.2	1.63	2.69	.20	.27	.31	1.65	2.50	9.25	1.3	6.94	3.90			
126	7.6	23.3	-	3.1	5.4	10.7	28.7	-	1.60	2.01	.26	.15	.28	1.65	2.50	8.45	1.2	7.04	3.60			
209	9.4	27.4	-	2.4	3.3	11.8	30.7	-	1.77	2.15	.25	.27	1.40	1.65	2.50	9.99	1.4	7.16	4.20			
103	4.5	2.9	3.7	3.7	4.3	8.2	7.2	3.7	1.23	3.05	.15	.16	1.90	1.65	2.50	10.64	1.4	7.60	4.20			
301	9.5	30.3	-	2.9	4.7	12.4	35.0	-	1.86	2.45	.15	.20	.47	1.65	2.50	9.28	1.2	7.98	3.60			
213	5.8	2.5	4.6	4.7	6.4	10.5	8.9	4.6	1.58	4.16	.30	.16	1.05	1.65	2.50	11.40	1.2	9.32	3.60			
219	5.5	13.3	1.3	3.8	7.1	9.3	20.4	1.3	1.40	2.51	.33	.39	.53	1.65	2.50	9.31	.9	10.40	2.70			
111	10.2	41.8	-	4.3	7.1	14.5	48.9	-	2.18	3.43	.47	.29	.94	1.65	2.50	11.46	1.1	10.65	3.30			
Ave.	6.9	20.8	1.0	3.7	5.6	10.6	26.4	1.0	1.60	2.61	.32	.24	.67	1.65	2.50	9.59	1.7	5.64	5.10			

\* At December 1st price of \$3.00 per ton

Hours of Man Labor and Horse and Tractor Work Used per Acre for Corn Cut and Shocked  
Stevens County, 1932

Farm No.	Yield ton	Plowing				Disking				Springtooth Harrowing			Harrowing			
		Man	Horse	Tractor	Times over	Man	Horse	Tractor	Times over	Man	Horse	Times over	Man	Horse	Tractor	Times over
102	1.7	.67	-	.67	1.00	-	-	-	-	.72	.72 <sup>x</sup>	1.84	.22	1.33	-	1.46
313	1.6	1.30	.91	1.09	1.00	.32	1.86	.10	2.00	.04	.14	.14	.22	1.18	-	.81
218	2.5	2.00	11.99	-	1.00	-	-	-	-	.38	.38 <sup>x</sup>	1.69	.10	-	.10	1.00
103	1.4	1.94	.58	1.74	1.34	.32	-	.32	.98	.18	.18 <sup>x</sup>	1.02	.45	1.80	-	1.25
201	1.4	.63	3.17	-	.39	.44	1.24	.15	1.00	-	-	-	.37	2.05	-	1.00
203	1.7	1.05	-	1.00	1.21	.28	-	.24	1.19	.21	.20 <sup>x</sup>	1.40	.29	1.18	-	1.40
123	2.2	1.02	-	1.02	1.15	.33	1.64	-	.55	.39	.39 <sup>x</sup>	1.66	.35	1.58	.09	1.40
219	.9	1.34	-	1.34	1.00	.45	1.79	-	1.00	-	-	-	.53	2.27	-	2.00
105	2.7	1.55	6.21	-	1.00	.26	1.04	-	.14	-	-	-	-	-	-	-
213	1.2	1.23	-	1.23	1.00	.66	-	.66	1.40	.39	.39 <sup>x</sup>	.52	.49	.87	.04	2.43
126	1.2	2.20	11.00	-	1.00	-	-	-	-	-	-	-	.80	3.20	-	3.00
109	1.3	3.08	14.58	.17	1.00	-	-	-	-	1.50	6.00	2.50	.25	1.00	-	1.00
208	1.8	2.00	7.95	-	1.00	.40	1.55	-	1.00	-	-	-	.55	2.19	-	3.00
108	1.9	1.60	-	1.60	1.00	-	-	-	-	.86	.86 <sup>x</sup>	1.93	.26	.11	.26	2.00
209	1.4	1.97	9.84	-	1.00	-	-	-	-	.77	3.09	1.00	.17	.70	-	1.00
118	1.6	2.60	13.01	-	1.00	.66	2.62	-	1.00	.61	3.06	1.00	-	-	-	-
301	1.2	3.28	9.86	-	1.00	1.00	4.01	-	2.00	-	-	-	.29	1.16	-	1.39
119	2.1	1.60	6.65	.27	1.00	.80	3.62	-	2.00	-	-	-	.50	2.18	-	1.92
319	2.3	1.50	4.75	.75	1.00	.88	3.50	-	1.00	-	-	-	.19	.75	-	1.00
111	1.1	2.89	11.54	-	1.00	.27	1.08	-	.29	2.20	9.49	2.78	.91	5.38	-	4.14
101	1.8	3.53	15.17	-	1.43	.61	2.44	-	1.14	-	-	-	.55	2.21	-	1.43
Average	1.7	1.86	6.05	.52	1.02	.36	1.26	.07	.79	.39	(1.04 (.15 <sup>x</sup> )	.83	.36	1.48	.02	1.55

<sup>x</sup>Tractor hours.

Hours of Man Labor and Horse and Tractor Work Used per Acre for Corn Cut and Shocked (continued)  
Stevens County, 1932

Farm No.	Planting			Harrowing			Cultivating				Cutting		Shocking	Total		
	Man	Horse	Tractor	Man	Horse	Times over	Man	Horse	Tractor	Times over	Man	Horse	Man	Man	Horse	Tractor
102	.59	1.17	-	-	-	-	1.59	6.31	-	3.00	1.45	4.39	2.05	7.29	13.20	1.39
313	.35	-	.35	.29	1.72	1.99	2.17	5.61	.60	3.17	1.52	4.55	1.84	8.07*	16.02	2.14
218	.58	1.16	-	.06	.11	.20	2.58	10.17	-	5.00	1.40	4.20	1.04	8.14	27.63	.48
103	.38	.10	.36	.07	.28	.50	1.20	.11	1.14	3.00	1.44	4.31	2.24	8.22	7.18	3.74
201	.64	1.28	-	.21	1.29	1.00	2.55	9.89	-	3.61	1.45	4.23	1.39	8.52+	27.05	.15
203	.38	-	.34	.42	1.70	2.00	2.16	7.57	.22	3.00	1.76	5.20	2.14	8.69	15.65	2.00
123	.79	1.59	-	.19	1.13	1.00	1.49	4.63	-	2.40	2.38	7.15	2.17	9.11	17.72	1.50
219	.74	1.44	-	.24	1.18	1.00	2.20	6.63	-	3.00	1.81	7.14	2.03	9.34	20.45	1.34
105	.74	1.48	-	.39	2.33	2.00	2.21	6.27	-	2.00	1.76	6.87	2.56	9.47	24.20	-
213	.82	1.66	-	.39	.39 <sup>x</sup>	.87	1.88	-	1.88	3.00	2.14	6.42	2.53	10.53	8.95	4.59
126	.60	1.20	-	.50	1.00	1.00	3.45	6.90	-	3.00	1.80	5.40	1.30	10.65	28.70	-
109	.58	1.16	-	.25	1.00	1.00	3.42	7.83	-	5.00	1.75	5.25	-	10.83	36.82	.17
208	.62	1.22	-	.41	1.66	2.00	3.15	11.31	-	3.15	1.65	5.53	2.09	10.87	31.41	-
108	1.07	2.16	-	.34	.34 <sup>x</sup>	2.03	3.28	10.53	-	4.00	1.87	5.60	2.47	11.75	18.40	3.06
209	.72	1.44	-	-	-	-	5.76	12.30	-	4.00	1.10	3.28	1.29	11.78	30.65	-
118	1.01	2.01	-	.33	1.64	1.00	3.00	8.99	-	3.00	1.62	4.86	1.99	11.82	36.19	-
301	.71	1.42	-	.46	1.85	1.78	3.75	12.05	-	4.00	1.56	4.69	1.34	12.39	35.04	-
119	.58	1.14	-	.35	1.41	1.46	4.80	11.29	-	5.00	1.24	3.74	2.58	12.45	30.03	.27
319	.94	1.88	-	.37	1.50	1.00	4.93	13.51	-	4.00	2.50	10.00	2.75	14.06	35.89	.75
111	.88	1.76	-	.08	.44	.29	3.03	12.12	-	3.78	2.25	7.14	2.00	14.51	48.95	-
101	.99	1.98	-	.60	2.27	1.43	3.11	11.92	-	4.14	2.41	7.23	3.04	14.84	43.22	-
<b>Average</b>	<b>.70</b>	<b>1.30</b>	<b>.05</b>	<b>.28</b>	<b>(1.07</b>	<b>1.12</b>	<b>2.94</b>	<b>8.38</b>	<b>.18</b>	<b>3.54</b>	<b>1.76</b>	<b>5.58</b>	<b>1.94</b>	<b>10.63†</b>	<b>26.35</b>	<b>1.03</b>
					<b>(.04<sup>x</sup></b>											

<sup>x</sup>Tractor hours.

\*Includes .02 man and .05 horse hours rolling and pulverizing.

+ " .84 " " 3.90 " " summer following previous year.

† " .74 " " .19 " " rolling and summer following.

Cost and Return per Acre of Silage Corn  
Stevens County, 1932

Farm no.	Hours								Costs							Yield Total (tons)	Cost per ton	Crop value*		
	Before Harvest			Harvesting			Total		Man labor	Horse and trac.	Seed	Twine	Silo filler	Man- ure	Mach- inery				Land	
	Man	Horse	Tractor	Man	Horse	Man	Horse	Tractor												
219	6.7	26.1	-	11.4	17.4	18.1	43.5	-	\$2.72	\$3.05	\$.33	\$.39	\$1.70	\$.53	\$1.65	\$2.50	\$12.87	9.6	\$1.34	19.20
201	5.1	20.2	.4	12.0	16.4	17.1	36.6	.4	2.56	2.85	.23	.27	1.74	.14	1.65	2.50	11.94	8.7	1.37	17.40
203	6.1	14.5	2.2	11.4	17.0	17.5	31.5	2.2	2.63	4.31	.17	.19	1.51	1.31	1.65	2.50	14.27	8.5	1.68	17.00
103	3.6	1.7	3.2	5.7	9.7	9.3	11.4	3.2	1.40	2.92	.22	.18	.78	-	1.65	2.50	9.59	5.6	1.71	11.20
119	7.8	26.9	.1	6.0	11.8	13.8	38.7	.1	2.06	2.75	.22	.22	1.39	1.11	1.65	2.50	11.90	6.1	1.94	12.20
113	5.3	13.4	1.8	5.7	10.4	11.0	23.8	1.8	1.65	2.87	.31	.26	.90	.55	1.65	2.50	10.68	5.1	2.08	10.20
209	9.4	27.3	-	6.0	8.2	15.4	35.5	-	2.30	2.49	.25	.27	1.43	1.40	1.65	2.50	12.29	5.9	2.09	11.80
109	9.9	31.3	.1	9.4	16.4	18.4	47.7	.1	2.76	3.40	.21	.26	1.46	.31	1.65	2.50	12.55	5.1	2.44	10.20
313	5.2	13.4	2.1	4.7	8.5	9.9	21.9	2.1	1.48	2.87	.23	.18	.74	.80	1.65	2.50	10.45	4.3	2.46	8.60
123	5.9	18.2	1.3	8.8	16.6	14.7	34.8	1.3	2.21	3.50	.52	.31	1.60	.86	1.65	2.50	13.15	4.7	2.81	9.40
213	4.8	1.5	4.1	5.9	10.8	10.7	12.3	4.1	1.61	4.09	.28	.16	.70	1.09	1.65	2.50	12.08	4.1	2.92	8.20
126	8.2	25.1	-	5.3	8.8	13.5	33.9	-	2.03	2.37	.25	.13	.86	.23	1.65	2.50	10.02	2.7	3.68	5.40
Aver- age	6.4	18.3	1.3	7.7	12.7	14.1	31.0	1.3	2.12	3.12	.27	.23	1.23	.69	1.65	2.50	11.81	5.9	2.00	11.80

\*At December 1 price of \$2.00 per ton.

103

Hours of Man Labor and Horse and Tractor Work Used per Acre of Silage  
Stevens County, 1932

Farm No.	Yield ton	Plowing				Disking				Springtoothing				Harrowing			
		Man	Horse	Tractor	Times over	Man	Horse	Tractor	Times over	Man	Horse	Tractor	Times over	Man	Horse	Tractor	Times over
103	5.6	1.25	-	1.25	1.0	.22	-	.22	1.0	.16	-	.16	1.0	.20	.81	-	1.0
313	4.3	1.26	.83	1.08	1.0	.33	2.23	.06	2.0	.35	1.41	-	.4	.23	1.13	-	1.0
213	4.1	.91	-	.91	1.0	.36	-	.36	.3	.63	-	.63	2.2	.11	-	.11	2.6*
113	5.1	1.50	-	1.50	1.0	.29	-	.29	1.4	-	-	-	-	.29	1.75	-	2.0
126	2.7	2.31	11.54	-	1.0	-	-	-	-	1.22	3.41	-	.8	.47	1.65	-	1.3
119	6.1	1.75	8.74	.06	1.0	.90	4.02	-	2.0	-	-	-	-	.14	.58	-	1.0
123	4.7	1.11	.09	1.09	1.0	.60	3.42	.17	1.1	.34	2.39	.04	.7	.32	1.20	.02	.6
209	5.9	1.97	9.85	-	1.0	-	-	-	-	.78	3.10	-	1.0	.15	.62	-	1.0
201	8.7	1.62	8.11	-	1.0	.36	-	.36	1.0	-	-	-	-	.38	1.85	-	1.0
205	8.5	1.50	-	1.38	1.5	-	-	-	-	.54	-	.50	2.0	.42	1.67	-	2.0
219	9.6	2.52	12.81	-	1.0	.44	1.75	-	2.0	-	-	-	-	.54	2.27	-	2.0
109	5.1	3.08	14.70	.10	1.0	-	-	-	-	1.47	5.86	-	2.5	.22	.89	-	1.0
Average	5.9	1.73	5.56	.62	1.0	.29	.95	.12	.9	.46	1.35	.11	.9	.29	1.20	.01	1.4

\*Includes times over with harrow attached behind disk and springtooth harrow. No harrowing hours reported for this.



Hours of Man Labor and Horse and Tractor Work Used per Acre of Silage (continued)  
Stevens County, 1932

Farm no.	Planting			Harrowing			Cultivating				Cutting		Filling		Total			
	Man	Horse	Tractor	Man	Horse	Tractor	Man	Horse	Tractor	Times over	Man	Horse	Man	Horse	Man	Horse	Tractor	
103	.18	-	.18	.21	.85	-	1.0	1.39	-	1.39	3.0	1.27	3.78	4.47	5.96	9.35	11.40	3.20
313	.34	-	.34	.38	1.76	-	2.0	2.26	6.06	.58	3.3	1.18	3.53	3.56	4.99	9.89	21.94	2.06
213	.73	1.46	-	.29	-	.29	.8	1.75	-	1.75	3.2	1.61	4.81	4.35	6.02	10.74	12.29	4.05
113	.55	1.10	-	.12	.33	.06	1.0	2.56	10.24	-	4.0	1.51	4.54	4.19	5.82	11.01	23.78	1.85
126	.80	1.59	-	.23	.58	-	.9	3.14	6.28	-	2.7	1.09	3.26	4.19	5.59	13.45	33.90	-
119	.65	1.29	-	.43	2.11	-	1.8	3.92	10.10	-	4.2	1.28	3.85	4.69	7.98	13.76	38.67	.06
123	.83	1.67	-	.18	.98	-	.4	2.54	8.50	-	3.0	1.30	3.91	7.52	12.65	14.74	34.81	1.32
209	.71	1.41	-	-	-	-	-	5.75	12.30	-	4.0	.27	.80	5.75	7.43	15.38	35.51	-
201	.61	1.22	-	.21	1.26	-	1.0	1.92	7.69	-	3.0	1.45	4.04	10.51	12.39	17.06	36.56	.36
203	.40	-	.35	.52	2.08	-	2.0	2.73	10.75	-	3.0	1.60	4.81	9.81	12.17	17.52	31.48	2.23
219	.75	1.44	-	.23	1.15	-	1.0	2.19	6.65	-	3.0	1.81	7.14	9.62	10.33	18.10	43.54	-
109	.57	1.13	-	.21	.83	-	1.0	3.46	7.87	-	5.0	1.79	5.38	7.58	11.03	18.38	47.69	.10
Average	.59	1.03	.07	.25	.99	.03	1.1	2.80	7.20	.31	3.4	1.35	4.15	6.35	8.53	14.11	30.96	1.27

13