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UNIVERSITY OF MINNESOTA
Department of Agriculture
and
UNITED STATES DEPARTMENT OF AGRICULTURE
Bureau of Agricultural Economics
Cooperating

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# A Preliminary Report of CROP PRODUCTION COSTS

From
Data Secured in 1937
on the

## FARM ACCOUNTING ROUTE

In

WINONA COUNTY, MINNESOTA

By

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## INTRODUCTION

This preliminary report is used to present the costs of producing the important crops grown on the farms included in the Farm Accounting Route in Winona County, Minnesota. The cooperation of a group of the progressive farmers in the county was secured in 1935 with the aid of the county agricultural agent, Mr. H.C. Pederson. During the three-year period a few farmers have elected to discontinue the work, and others have been added to take their place. A large proportion of the farmers have contributed records for each of the three years. These farmers have kept detailed records of time spent, operations performed, seed and twine used, yields, and other pertinent crop data. The costs of production for 1937 are presented for each farm; the average costs for 1935 and 1936 are presented at the foot of each table. Comparative statements of costs and returns for 1935, 1936 and 1937 are presented on pages 5, 6 and 7. These data will enable the cooperating farmers to compare their costs with those of their neighbors. Such comparisons should suggest methods of improving their crop operations and increasing their net returns.

Winona County lies in the southeastern part of the state. The topography varies from gently rolling to very hilly. Much of the county is covered with a deposit of very productive loessial material. The surface soil is deficient in lime, but lime deposits underlie it at a relatively shallow depth. The soil washes easily, with the steeper slopes subject to considerable erosion. The growing season varies from 140 to 160 days. The average rainfall is approximately 29 inches, 70 per cent of which is received during the months of April to September, inclusive. Livestock and livestock products constitute the major sources of income.

The farms studied were larger than the average of the county. The distribution of acreage of the farms studied and of all farms in the county is given in Table 1.

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Table 1

Distribution of Crop Acreage
Acres per Farm

| Crop | Farms Studied 1935 | 1936 | 1937 | County* 1934 | Crop | Farms Studied 1935 | 1936 | 1937 | County 1934 |
|---|---|---|---|---|---|---|---|---|---|
| Number of farms | 20 | 24 | 25 | - | | | | | |
| Corn | 26 | 32 | 28 | 19 | Alfalfa | 18 | 14 | 20 | 2 |
| Oats | 35 | 26 | 27 | 17 | Clover and timothy | 11 | 22 | 17 | 8 |
| Barley | 51 | 38 | 27 | 15 | Other hay | 8 | 5 | 4 | 5 |
| Wheat | 11 | 8 | 11 | 2 | Other crops | 3 | 14 | 7 | 6 |
| Other grains | 22 | 20 | 16 | 7 | Total crop acreage | 185 | 179 | 157 | 81 |
| | | | | | Total acreage | 334 | 301 | 273 | 170 |

*1935 United States Census of Agriculture.

Soil Erosion a Problem

Soil erosion control is a definite problem on most of the farms studied. In fact, this area was selected because it offered an opportunity to study the effect of erosion control methods on farm organization and the cost of farm operation. A few fairly level farms were included for purposes of comparison. Most of the operators of the farms subject to erosion are cooperating with the Federal Soil Conservation Service in an erosion control program. The changes in field arrangements and cropping practices specified by that program were begun in 1936, and were almost completed in 1937. Difficulties in obtaining satisfactory stands of grass seedings has hindered the completion of the changes. The possible effects of these changes should be considered in comparing the crop statements for the three years.

The introduction of strip cropping has materially reduced the average size of fields, as may be seen from the data in Table 2. The average size of the

Table 2

Acres per Field by Crops and by Years - Winona County

| Crop | Year 1935 | 1936 | 1937 |
|---|---|---|---|
| Corn | 11.09 | 8.06 | 7.10 |
| Small grain | 15.43 | 11.80 | 9.92 |
| Alfalfa | 6.93 | 6.26 | 5.96 |
| Timothy and clover | 11.12 | 12.64 | 7.17 |

corn, small grain, and timothy and clover fields has been reduced by one-third since 1935. The size of alfalfa fields has been affected less. Preliminary studies of the data obtained in this project indicate that considerably more time per acre is required for crop operations on small fields than on large fields. Analyses are being made at the present time to determine the effect of length and width of strips and of working with the contour upon labor requirements.

The Crop Seasons of 1935, 1936 and 1937

Heavy precipitation, plus the moisture from the winter snows on unfrozen ground, provided moisture for good yields in 1935. (See Table 3.) Heavy summer rains, however, interfered with the curing of hay and drying of grain in the shock. Rainfall was satisfactory during the spring of 1936, but scant rains and high temperatures during July reduced the yields of all crops. Rainfall was again satis-

Table 3

Weather Conditions--Rainfall and Temperature*

| Month | Rainfall (inches) | | | | Mean Temperature (degree F.) | | | |
|---|---|---|---|---|---|---|---|---|
| | 1935 | 1936 | 1937 | Normal | 1935 | 1936 | 1937 | Normal |
| April | 2.34 | .78 | 2.37 | 2.43 | 45.5 | 42.0 | 45.5 | 46.8 |
| May | 4.80 | 5.60 | 3.71 | 4.03 | 54.2 | 65.3 | 59.9 | 58.5 |
| June | 5.56 | 2.14 | 4.51 | 4.66 | 64.6 | 66.9 | 69.7 | 68.3 |
| July | 4.62 | 1.10 | 1.46 | 3.05 | 78.2 | 79.9 | 75.1 | 72.8 |
| August | 5.28 | 4.32 | 4.19 | 3.51 | 71.5 | 76.1 | 76.3 | 69.6 |
| September | 4.08 | 3.48 | 2.24 | 3.50 | 63.1 | 66.1 | 63.9 | 61.9 |

*"Climatological Data", Minnesota Division of United States Weather Bureau. Average of reports for Winona (weight 2) and Rochester (weight 1).

factory in the spring of 1937, but scant rains and high temperatures during the early part of July again reduced the yield of the second cutting of hay.

The dates on which a majority of the cooperating farmers began some of the major field operations are presented in Table 4. Field work began earlier in the

Table 4

Dates* for Starting Specified Crop Operations--Winona County

| Crop operation | Year | | |
|---|---|---|---|
| | 1935 | 1936 | 1937 |
| Seeding small grain | April 13 | April 22 | April 20 |
| Planting corn | May 17 | May 13 | May 19 |
| Cutting alfalfa - 1st cutting | June 21 | June 13 | June 15 |
| Cutting small grain | July 20 | July 15 | July 19 |
| Cutting corn for silage | September 19 | September 8 | September 6 |

*The date on which the largest number of farmers started work (i.e., the mode).

spring of 1935 than in either of the two following years. Harvesting, however, began considerably later in 1935 than in either of the other years.

## METHODS OF COMPUTING DATA

The data for each farm were computed as if the farmer was a full-owner. The factors of cost were charged at local prices. Man labor was charged at 20 cents per hour. Horse work was charged at 8 cents per hour in 1935 and 1936, and at 9 cents in 1937. Two-plow tractors were charged at 45 cents per hour in 1935 and at 50 cents in 1936 and 1937, and three-plow tractors at 60 cents in 1935 and at 65 cents in 1936 and 1937. Seeds were charged at purchase prices, or at farm prices plus the cost of cleaning. Manure was charged at 50 cents per ton plus the cost of application. Forty per cent of the total manuring charge was allocated to the land covered and the balance was prorated on an acre basis to the remaining land normally receiving manure. Flat charges per acre were made for seed for hay crops for machinery and for land. The local farm prices on December 1 were used in determining the value of the crop.

Many of the costs used in these calculations are not out-of-pocket cash costs. Care must, therefore, be used in interpreting these data; but since the costs have been calculated on the same basis for each farm, they can be used safely in comparison between farms.

## USING CROP RECORDS TO INCREASE CROP RETURNS

A good crop rotation and efficient crop production are necessary for profitable farming. Good crop records will help the farmer to plan a satisfactory cropping program. They supply facts which are needed for accurate thinking.

Most of the crops raised on southeastern Minnesota farms are utilized as feed for livestock. It is important that those feed crops yield a large quantity of nutrients per acre at a low cost. The production per acre and the relative cost per hundred pounds of digestible nutrients for the principal feed crops for Winona County are presented in Table 5. Since these data are averages for the county, they

Table 5

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

| Crop | Average yield* (1917-36) | Total lbs. digestible nutrients+ | % protein is of total nutrients+ | Cost‡ per 100 lbs. of total nutrients |
|---|---|---|---|---|
| Grains: | bushel | | | |
| Corn | 37.4 | 1711 | 8.7 | $1.00 |
| Barley | 25.6 | 976 | 11.3 | 1.29 |
| Winter wheat | 18.3 | 870 | 11.1 | 1.46 |
| Oats | 35.1 | 790 | 13.8 | 1.51 |
| Spring wheat | 15.8 | 751 | 11.1 | 1.64 |
| Roughages: | ton | | | |
| Alfalfa | 2.6 | 2652 | 20.8 | .42 |
| Clover and timothy | 1.7 | 1676 | 10.3 | .58 |
| Silage | 7.8 | 2621 | 7.2 | .78 |

*Yields of alfalfa, clover and timothy, and silage estimated from available data; all other yields from annual reports of State Department of Agriculture.
+Analysis of feeds from "Feeding the Dairy Herd", by Eckles, Minnesota Bulletin 218 (1932).
‡Average costs for Winona County Farm Accounting Route adjusted for differences in yield.

may not be directly applicable to all farms. However, they indicate the general relationships existing in this area. A farmer may use his own crop records to prepare a similar comparison in order to determine the most desirable cropping system for his farm.

Many farms raise some crops for sale. One important consideration in the selection of these is the net returns per acre. The calculation of statements similar to those on pages 5 to 7, using data applicable to the individual farm, will aid the farmer in selecting the most profitable cash crops.

Costs per unit of producing crops vary greatly among farms. The cost of producing barley in 1937 ranged from 32 cents per bushel to 76 cents. These costs per unit were affected both by costs per acre and by yields per acre. An examination of the crop statements in this report reveals substantial differences among the farms in the costs of producing an acre of any of the crops. The costs per acre of producing barley in 1937 ranged from $11.46 to $17.88. Some factors which favor low costs are (1) efficient arrangement of fields, (2) the use of efficient combinations of power and machinery, and (3) wise purchasing of supplies.

High crop yields will, within limits, reduce the costs per unit of producing crops. Analysis of the data presented in this report shows that in general costs per unit were low on those farms where yields were high. Some factors that favor high yields are (1) the use of a crop rotation which will increase fertility, (2) the effective use of manure available, (3) the use of commercial fertilizer when tests indicate its use to be profitable, (4) thorough preparation of the seedbed, (5) early seeding, (6) the use of varieties best adapted to the farm, and (7) the planting of clean seed of high vitality.

## Comparative Cost and Return per Acre for the Principal Crops

| | Barley | | | Oats | | | Winter Wheat | | | Spring Wheat | | Rye | Flax |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1935 | 1936 | 1937 | 1935 | 1936 | 1937 | 1935 | 1936 | 1937 | 1935 | 1937 | 1935 | 1935 |
| Number of farms | 19 | 19 | 23 | 18 | 17 | 18 | 10 | 13 | 17 | 9 | 6 | 5 | 4 |
| Acres per farm | 53 | 40 | 30 | 40 | 34 | 36 | 14 | 13 | 14 | 10 | 7 | 27 | 6 |
| Costs and returns: | | | | | | | | | | | | | |
| Man labor | $1.61 | $1.62 | $1.93 | $1.63 | $1.65 | $1.78 | $2.22 | $1.94 | $1.84 | $1.70 | $1.67 | $1.39 | $2.78 |
| Horse and tractor | 1.84 | 2.07 | 2.23 | 1.94 | 2.13 | 2.16 | 2.08 | 2.31 | 2.17 | 1.85 | 2.25 | 1.50 | 3.01 |
| Seed | 2.12 | 1.55 | 2.41 | 1.34 | .87 | 1.29 | 1.97 | 1.95 | 2.32 | 1.83 | 2.61 | 1.84 | 1.57 |
| Twine | .16 | .17 | .30 | .17 | .18 | .29 | .21 | .16 | .24 | .18 | .25 | .17 | .02 |
| Threshing | .61 | .49 | .77 | .90 | .87 | 1.26 | .75 | .67 | .57 | .42 | .49 | .36 | 1.48 |
| Manure | .79 | 1.29 | 1.68 | .75 | 1.10 | 1.78 | .58 | 1.08 | 1.56 | .68 | 1.05 | .65 | .38 |
| Machinery | 1.06 | 1.05 | 1.05 | 1.06 | 1.05 | 1.05 | 1.05 | 1.16 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |
| OPERATING COSTS | 8.19 | 8.24 | 10.37 | 7.79 | 7.85 | 9.61 | 8.86 | 9.27 | 9.75 | 7.71 | 9.37 | 6.96 | 10.29 |
| Land | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 |
| TOTAL COSTS | 11.69 | 11.74 | 13.87 | 11.29 | 11.35 | 13.11 | 12.36 | 12.77 | 13.25 | 11.21 | 12.87 | 10.46 | 13.79 |
| Crop Value (Dec.1) | 11.28 | 19.32 | 17.03 | 7.63 | 12.67 | 10.60 | 21.86 | 19.94 | 13.52 | 8.25 | 13.50 | 5.21 | 9.48 |
| VALUE LESS COST* | -.41+ | 7.58+ | 3.16+ | -3.66 | 1.32 | -2.51 | 9.50 | 7.17 | .27 | -2.96 | .63 | -5.25 | -4.31 |
| Yield, bu. | 20.5 | 16.8 | 26.2 | 31.8 | 28.8 | 42.4 | 23.5 | 16.8 | 16.9 | 11.0 | 15.0 | 12.4 | 6.0 |
| Cost per bu.: Average | $.57 | $.70 | $.53 | $.36 | $.39 | $.31 | $.53 | $.76 | $.78 | $1.02 | $.86 | $.84 | $2.30 |
| Lowest | .35 | .40 | .32 | .24 | .29 | .20 | .34 | .46 | .54 | .70 | .59 | .60 | 1.33 |
| Highest | .91 | 1.16 | .76 | .64 | .69 | .48 | 1.10 | 1.79 | 1.25 | 1.51 | 1.24 | 1.59 | 4.59 |
| December 1 price | .55+ | 1.15+ | .65+ | .24 | .44 | .25 | .93 | 1.18 | .80 | .75‡ | .90 | .42 | 1.58 |
| Physical requirements: | | | | | | | | | | | | | |
| To harvest: | | | | | | | | | | | | | |
| Man labor, hrs. | 3.1 | 3.7 | 3.4 | 3.2 | 4.0 | 3.4 | 2.7 | 4.2 | 3.6 | 3.2 | 3.3 | 2.4 | 5.6 |
| Horse work, hrs. | 10.3 | 10.2 | 7.7 | 11.6 | 12.2 | 8.6 | 9.6 | 13.7 | 9.9 | 10.8 | 6.4 | 6.1 | 17.5 |
| Tractor use, hrs. | .8 | 1.1 | 1.4 | .7 | 1.0 | 1.2 | .7 | .8 | 1.0 | .6 | 1.6 | .8 | 1.0 |
| Harvest: | | | | | | | | | | | | | |
| Man labor, hrs. | 4.9 | 4.4 | 6.2 | 4.9 | 4.2 | 5.5 | 8.4 | 5.5 | 5.6 | 5.3 | 5.0 | 4.6 | 8.3 |
| Horse work, hrs. | 5.3 | 5.2 | 6.2 | 5.9 | 4.8 | 6.2 | 9.4 | 7.0 | 6.0 | 5.2 | 6.7 | 4.7 | 11.3 |
| Tractor use, hrs. | .3 | .3 | .4 | .3 | .3 | .2 | .3 | .2 | .3 | .4 | .2 | .3 | .4 |
| Seed, bu. | 1.7 | 2.0 | 2.0 | 2.3 | 2.2 | 2.1 | 1.6 | 1.7 | 1.6 | 1.6 | 1.7 | 1.7 | .8 |
| Twine, lbs. | 2.2 | 1.8 | 3.2 | 2.4 | 2.5 | 3.1 | 3.1 | 2.3 | 2.8 | 2.6 | 2.9 | 2.3 | - |

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

+Malting barley prices. Using feed barley prices of 35 cents in 1935, 73 cents in 1936, and 42 cents in 1937, crop value less cost would be $-4.51, $.52 and $-2.87 respectively.

‡Low price because of low quality.

Comparative Cost and Return per Acre for the Principal Crops (continued)

| | Oats and Barley | | | Oats & Wheat | Husked Corn | | | Shredded Corn | | | Silage Corn | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1935 | 1936 | 1937 | 1935 | 1935 | 1936 | 1937 | 1935 | 1936 | 1937 | 1935 | 1936 | 1937 |
| Number of farms | 4 | 7 | 6 | 5 | 15 | 10 | 15 | 7 | 11 | 16 | 20 | 22 | 23 |
| Acres per farm | 18 | 19 | 21 | 23 | 10 | 15 | 11 | 11 | 10 | 10 | 13 | 18 | 14 |
| Costs and returns: | | | | | | | | | | | | | |
| Man labor | $1.52 | $1.83 | $2.03 | $1.76 | $4.45 | $4.62 | $4.01 | $5.92 | $5.18 | $5.74 | $4.34 | $3.92 | $4.07 |
| Horse and tractor | 1.90 | 2.04 | 2.26 | 2.04 | 4.40 | 4.16 | 4.36 | 4.83 | 4.34 | 4.93 | 4.06 | 4.00 | 4.48 |
| Seed | 2.00 | 1.28 | 2.13 | 1.85 | .42 | .76 | .67 | .48 | .64 | .52 | .64 | .74 | .56 |
| Twine | .16 | .22 | .27 | .19 | - | - | - | .27 | .25 | .49 | .34 | .26 | .46 |
| Threshing* | .67 | .82 | 1.40 | .71 | .19 | - | .28 | 1.74 | 1.49 | 2.23 | 2.40 | 2.05 | 2.05 |
| Manure | .35 | 1.59 | 1.64 | .73 | 1.80 | 3.12 | 2.26 | 2.48 | 3.08 | 3.48 | 2.41 | 3.28 | 2.66 |
| Machinery | 1.05 | 1.05 | 1.05 | 1.05 | 1.55 | 1.55 | 1.55 | 2.50 | 2.48 | 2.50 | 2.50 | 2.50 | 2.50 |
| OPERATING COSTS | 7.65 | 8.83 | 10.78 | 8.33 | 12.81 | 14.21 | 13.13 | 18.22 | 17.46 | 19.89 | 16.69 | 16.75 | 16.78 |
| Land | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 |
| TOTAL COSTS | 11.15 | 12.33 | 14.28 | 11.83 | 16.31 | 17.71 | 16.63 | 20.54+ | 18.88+ | 20.70+ | 19.39‡ | 16.90‡ | 19.19‡ |
| Crop value (Dec.1) | 6.60 | 15.95 | 13.67 | 12.30 | 16.38 | 31.40 | 20.70 | 13.89 | 27.90 | 22.05 | - | - | - |
| VALUE LESS COST§ | -4.55 | 3.62 | -.61 | .47 | .07 | 13.69 | 4.07 | -6.65 | 9.02 | 1.75 | - | - | - |
| Yield, bu. | 21.3** | 27.5** | 40.2** | 22.6** | 38.1 | 31.4 | 46.0 | 32.3 | 27.5 | 49.0 | - | - | - |
| tons | - | - | - | - | - | - | - | - | - | - | 7.4 | 5.1 | 8.2 |
| Cost per bu. :Average | $.52 | $.45 | $.36 | $.52 | $.43 | $.56 | $.36 | $.64 | $.69 | $.42 | $2.62 | $3.31 | $2.34 |
| (or ton) Lowest | .35 | .34 | .28 | .38 | .26 | .35 | .26 | .36 | .33 | .27 | 2.02 | .96 | 1.50 |
| Highest | .83 | .86 | .42 | 1.52 | 1.07 | 1.90 | .99 | 1.31 | 2.21 | .95 | 3.96 | 5.68 | 3.77 |
| Dec.1 price, per bu. | .31 | .58 | .34 | .54 | .43 | 1.00 | .45 | .43 | 1.00 | .45 | - | - | - |
| Physical requirements: | | | | | | | | | | | | | |
| To harvest: | | | | | | | | | | | | | |
| Man labor, hrs. | 3.3 | 4.0 | 3.9 | 2.9 | 11.8 | 11.8 | 9.7 | 11.9 | 10.5 | 11.1 | 10.1 | 11.3 | 10.5 |
| Horse work, hrs. | 12.6 | 12.0 | 9.3 | 7.7 | 28.1 | 24.3 | 17.3 | 28.1 | 24.1 | 22.8 | 24.0 | 24.8 | 20.5 |
| Tractor use, hrs. | .5 | .8 | 1.3 | 1.1 | 1.1 | 1.4 | 2.5 | .9 | 1.2 | 1.8 | 1.1 | 1.5 | 2.2 |
| Harvest: | | | | | | | | | | | | | |
| Man labor, hrs. | 4.3 | 5.1 | 6.1 | 5.9 | 10.4 | 11.3 | 10.3 | 17.6 | 15.4 | 17.6 | 11.6 | 8.3 | 9.8 |
| Horse work, hrs. | 4.0 | 5.2 | 5.6 | 5.6 | 17.0 | 17.3 | 14.3 | 25.8 | 21.8 | 21.2 | 19.0 | 14.4 | 15.0 |
| Tractor use, hrs. | .5 | .5 | .4 | .5 | .3 | - | .3 | - | - | - | - | - | .1 |
| Seed, bu. | 2.2 | 2.1 | 2.3 | 2.0 | .19 | .20 | .16 | .19 | .19 | .17 | .24 | .22 | .21 |
| Twine, lbs. | 2.3 | 2.7 | 2.9 | 2.5 | - | - | - | 4.4 | 3.2 | 6.0 | 4.8 | 3.0 | 5.5 |

*Includes also charges for mechanical husker, shredder with power, and silage cutter with power.
+Net cost after deducting credit for stover of $1.18 in 1935, $2.08 in 1936 and $2.69 in 1937.
‡Net cost after deducting credit for corn knocked off by binder of $.80 in 1935, $3.35 in 1936 and $1.09 in 1937.
§A minus (-) indicates a cost greater than the value of the crop.
**At 40 pounds per bushel.

Comparative Cost and Return per Acre for the Principal Crops (continued)

| | Alfalfa Hay | | | Clover Hay | | Clover Hay & Seed | Clover and Timothy | | Timothy | | Wild Hay | | Soybean Hay |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1935 | 1936 | 1937 | 1936 | 1937 | 1936 | 1935 | 1937 | Seed 1936 | Hay 1937 | 1935 | 1937 | 1935 |
| Number of farms | 19 | 15 | 21 | 14 | 6 | 13 | 7 | 13 | 5 | 7 | 10 | 6 | 5 |
| Acres per farm | 15 | 11 | 23 | 18 | 10 | 20 | 12 | 15 | 9 | 6 | 4 | 5 | 6 |
| Costs and returns: | | | | | | | | | | | | | |
| Man labor | $2.80 | $2.50 | $1.81 | $1.45 | $.85 | $2.12 | $1.70 | $1.32 | $.89 | $1.15 | $1.96 | $1.08 | $3.46 |
| Horse and tractor | 1.86 | 1.69 | 1.48 | 1.12 | .74 | 1.44 | 1.28 | 1.07 | .56 | .80 | 1.15 | .98 | 3.18 |
| Seed | 1.10 | 1.20 | 1.20 | 2.63 | 2.70 | 2.70 | 1.10 | 1.85 | 1.30 | 1.30 | - | - | 1.76 |
| Twine | - | - | - | - | - | - | - | - | .14 | - | - | - | .14 |
| Hulling and threshing | - | - | - | - | - | .64 | - | - | .82 | - | - | - | - |
| Manure | .75 | 1.44 | 1.79 | 1.25 | 1.07 | 1.16 | .81 | 1.96 | .85 | 1.85 | - | - | 1.12 |
| Machinery | 1.21 | 1.20 | 1.06 | .57 | .56 | 1.06 | .82 | .56 | .20 | .54 | .74 | .55 | 1.51 |
| OPERATING COSTS | 7.72 | 8.03 | 7.34 | 7.02 | 5.92 | 9.12 | 5.71 | 6.76 | 4.76 | 5.64 | 3.85 | 2.61 | 11.17 |
| Land | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 2.00 | 2.00 | 3.50 |
| TOTAL COSTS | 11.22 | 11.53 | 10.84 | 10.52 | 9.42 | 12.62 | 9.21 | 10.26 | 8.26 | 9.14 | 5.85 | 4.61 | 14.67 |
| Yield, bu. | - | - | - | - | - | .61 | - | - | 4.1 | - | - | - | - |
| tons | 3.1 | 1.9 | 2.1 | 1.3 | .8 | 1.3 | 2.3 | 1.4 | - | 1.2 | 1.5 | .9 | 1.7 |
| Cost per bu.:Average | $3.62 | $6.07 | $5.16 | $8.09 | $11.78 | - | $4.00 | $7.33 | $2.01 | $7.62 | $3.90 | $5.12 | $8.63 |
| (or ton) Lowest | 2.29 | 2.35 | 3.30 | 4.68 | 9.35 | - | 2.76 | 4.49 | 1.15 | 4.77 | 2.10 | 4.39 | 5.85 |
| Highest | 6.68 | 13.43 | 7.77 | 13.37 | 14.17 | - | 5.34 | 13.83 | 5.57 | 30.57 | 12.69 | 6.98 | 16.65 |
| Physical requirements: | | | | | | | | | | | | | |
| 1st cutting: | | | | | | | | | | | | | |
| Man labor, hrs. | 7.6 | 6.6 | 6.3 | 7.2 | 4.2 | 6.9 | 7.2 | 6.5 | 4.4 | 5.5 | 9.1 | 5.4 | 7.7 |
| Horse work, hrs. | 11.4 | 10.0 | 9.2 | 10.8 | 6.4 | 9.6 | 11.8 | 9.3 | 3.7 | 8.2 | 13.0 | 8.8 | 19.4 |
| Tractor use, hrs. | .2 | .2 | .3 | .4 | .3 | .4 | .2 | .4 | .5 | - | - | .4 | 1.2 |
| 2nd cutting: | | | | | | | | | | | | | |
| Man labor, hrs. | 5.2 | 3.8 | 2.8 | .1 | - | 3.7 | 1.3 | .1 | - | .2 | .7 | - | 9.6 |
| Horse work, hrs. | 7.6 | 6.3 | 4.3 | .1 | - | 5.1 | 3.2 | .1 | - | .4 | 1.4 | - | 11.2 |
| Tractor use, hrs. | .2 | .1 | .1 | - | - | - | - | - | - | - | - | - | .1 |
| 3rd cutting: | | | | | | | | | | | | | |
| Man labor, hrs. | 1.2 | 2.1 | .2 | - | - | - | - | - | - | - | - | - | - |
| Horse work, hrs. | 1.7 | 2.9 | .3 | - | - | - | - | - | - | - | - | - | - |
| Tractor use, hrs. | - | .1 | - | - | - | - | - | - | - | - | - | - | - |
| Seed, bu. | - | - | - | - | - | - | - | - | - | - | - | - | 1.0 |
| Twine, lbs. | - | - | - | - | - | - | - | - | 1.7 | - | - | - | 2.1 |

Cost per Acre of Producing Barley - 1937

| Farm no. | Costs | | | | | | | | | Yield bu. | Cost per bu. | Labor | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Man | Horse & tractor | Seed | Twine | Thresh-ing | Manure | Mach-inery | Land | Total | | | To Harvest | | | Harvesting | | |
| | | | | | | | | | | | | Man | Horse | Tractor | Man | Horse | Tractor |
| 210 | $1.61 | $2.01 | $2.54 | $.42 | $1.28 | $2.00 | $1.05 | $3.50 | $14.41 | 44.6 | $.32 | 3.0 | 2.8 | 2.3 | 5.0 | 3.5 | .6 |
| 229 | 1.90 | 1.88 | 2.17 | .34 | 1.07 | 1.59 | 1.05 | 3.50 | 13.50 | 37.0 | .36 | 2.8 | 4.3 | 1.7 | 6.7 | 6.9 | - |
| 236 | 1.74 | 2.02 | 2.56 | .29 | 1.00 | 1.52 | 1.05 | 3.50 | 13.68 | 33.5 | .41 | 2.7 | 2.5 | 1.9 | 6.0 | 4.5 | .9 |
| 123 | 2.62 | 2.82 | 2.72 | .30 | .99 | 1.01 | 1.05 | 3.50 | 15.01 | 35.7 | .42 | 4.8 | 12.7 | 1.2 | 8.3 | 3.7 | 1.5 |
| 118 | 1.72 | 2.17 | 2.34 | .23 | .91 | 1.83 | 1.05 | 3.50 | 13.75 | 30.5 | .45 | 3.4 | 5.3 | 1.9 | 5.2 | 4.4 | .6 |
| 016 | 1.93 | 2.30 | 2.21 | .29 | .94 | 2.73 | 1.05 | 3.50 | 14.95 | 31.3 | .48 | 4.4 | 8.9 | 1.7 | 5.2 | 7.2 | - |
| 121 | 1.58 | 1.95 | 2.44 | .24 | .72 | .64 | 1.05 | 3.50 | 12.12 | 24.0 | .50 | 2.4 | 3.3 | 1.6 | 5.5 | 2.5 | .6 |
| 189 | 1.62 | 2.12 | 2.65 | .25 | .84 | 2.47 | 1.05 | 3.50 | 14.50 | 28.0 | .52 | 2.4 | 2.2 | 1.7 | 5.7 | 4.5 | .6 |
| 028 | 1.66 | 2.00 | 2.45 | .31 | .71 | .94 | 1.05 | 3.50 | 12.62 | 23.7 | .53 | 3.1 | 2.3 | 2.3 | 5.2 | 6.9 | - |
| 119 | 1.32 | 1.81 | 1.89 | .16 | .63 | 1.10 | 1.05 | 3.50 | 11.46 | 21.0 | .54 | 2.9 | 6.8 | 1.2 | 3.7 | 4.1 | .1 |
| 116 | 1.81 | 2.18 | 2.39 | .32 | .67 | .52 | 1.05 | 3.50 | 12.44 | 22.3 | .56 | 4.2 | 13.6 | .8 | 4.8 | 2.8 | .6 |
| 159 | 1.81 | 2.23 | 2.38 | .25 | .73 | 1.74 | 1.05 | 3.50 | 13.69 | 24.3 | .56 | 3.6 | 1.1 | 1.9 | 5.4 | 4.8 | .7 |
| 149 | 1.64 | 2.68 | 2.43 | .25 | .72 | 1.35 | 1.05 | 3.50 | 13.62 | 23.9 | .57 | 3.6 | 8.9 | 1.8 | 4.6 | 4.1 | .5 |
| 129 | 1.22 | 2.15 | 2.39 | .19 | .63 | .92 | 1.05 | 3.50 | 12.05 | 21.0 | .57 | 2.6 | 2.7 | 2.2 | 3.5 | 5.6 | - |
| 018 | 2.64 | 2.80 | 2.30 | .28 | .83 | 2.99 | 1.05 | 3.50 | 16.39 | 27.6 | .59 | 4.4 | 15.2 | .9 | 8.8 | 10.7 | - |
| 114 | 3.71 | 2.96 | 2.01 | .44 | .82 | 3.39 | 1.05 | 3.50 | 17.88 | 29.7 | .60 | 3.3 | 12.6 | - | 15.2 | 20.3 | - |
| 027 | 1.80 | 2.02 | 2.29 | .31 | .64 | 2.81 | 1.07 | 3.50 | 14.44 | 23.1 | .62 | 3.1 | 9.7 | .9 | 5.9 | 5.2 | .5 |
| 017 | 2.31 | 2.47 | 2.05 | .41 | .65 | 1.18 | 1.05 | 3.50 | 13.62 | 21.6 | .63 | 4.3 | 16.7 | - | 7.2 | 10.7 | - |
| 109 | 2.32 | 2.34 | 1.90 | .33 | .68 | 2.38 | 1.05 | 3.50 | 14.50 | 22.7 | .64 | 3.8 | 4.8 | 2.2 | 7.8 | 4.8 | .7 |
| 014 | 1.66 | 2.24 | 2.85 | .23 | .60 | .83 | 1.05 | 3.50 | 12.96 | 20.1 | .64 | 3.5 | 11.8 | .9 | 4.8 | 6.7 | - |
| 226 | 2.09 | 1.33 | 3.55 | .55 | .65 | 2.74 | 1.05 | 3.50 | 15.46 | 22.9 | .68 | 1.5 | 1.8 | .9 | 9.0 | 4.8 | .6 |
| 179 | 1.88 | 2.54 | 2.36 | .22 | .59 | 1.93 | 1.05 | 3.50 | 14.07 | 19.5 | .72 | 5.0 | 17.1 | 1.0 | 4.4 | 5.2 | .1 |
| 169 | 1.74 | 2.21 | 2.45 | .23 | .46 | - | 1.05 | 3.50 | 11.64 | 15.3 | .76 | 3.9 | 9.7 | 1.1 | 4.8 | 8.4 | - |
| Avg. | | | | | | | | | | | | | | | | | |
| 1937 | 1.93 | 2.23 | 2.41 | .30 | .77 | 1.68 | 1.05 | 3.50 | 13.87 | 26.2 | .53 | 3.4 | 7.7 | 1.4 | 6.2 | 6.2 | .4 |
| 1936 | 1.62 | 2.07 | 1.55 | .17 | .49 | 1.29 | 1.05 | 3.50 | 11.74 | 16.8 | .70 | 3.7 | 10.2 | 1.1 | 4.4 | 5.2 | .3 |
| 1935 | 1.61 | 1.84 | 2.12 | .16 | .61 | .79 | 1.06 | 3.50 | 11.69 | 20.5 | .57 | 3.1 | 10.3 | .8 | 4.9 | 5.3 | .3 |

Cost per Acre of Producing Oats - 1937

| Farm no. | Costs | | | | | | | | | Yield bu. | Cost per bu. | Labor | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Man | Horse & tractor | Seed | Twine | Thresh-ing | Manure | Mach-inery | Land | Total | | | To Harvest | | | Harvesting | | |
| | | | | | | | | | | | | Man | Horse | Tractor | Man | Horse | Tractor |
| 014 | $1.64 | $2.11 | $.89 | $.23 | $1.75 | $.73 | $1.05 | $3.50 | $11.90 | 58.2 | $.20 | 3.0 | 9.8 | .9 | 5.2 | 6.9 | - |
| 119 | 1.43 | 1.88 | 1.07 | .27 | 1.62 | .65 | 1.05 | 3.50 | 11.47 | 53.9 | .21 | 2.9 | 7.2 | 1.1 | 4.2 | 4.1 | .2 |
| 028 | 1.62 | 2.01 | 1.40 | .31 | 1.66 | .99 | 1.05 | 3.50 | 12.54 | 55.4 | .23 | 3.1 | 2.5 | 2.4 | 5.0 | 6.4 | - |
| 017 | 1.59 | 1.78 | 1.30 | .28 | 1.61 | 1.18 | 1.05 | 3.50 | 12.29 | 53.6 | .23 | 3.7 | 14.7 | - | 4.2 | 5.1 | - |
| 210 | 1.44 | 1.72 | 1.14 | .38 | 1.47 | 2.03 | 1.05 | 3.50 | 12.73 | 51.9 | .24 | 2.6 | 2.3 | 2.0 | 4.6 | 2.5 | .5 |
| 027 | 2.03 | 2.18 | 1.71 | .27 | 1.66 | 2.19 | 1.05 | 3.50 | 14.59 | 57.0 | .26 | 3.5 | 13.0 | .6 | 6.7 | 7.8 | - |
| 121 | 1.26 | 1.64 | 1.49 | .24 | 1.15 | .87 | 1.05 | 3.50 | 11.20 | 38.5 | .29 | 2.1 | 3.2 | 1.3 | 4.2 | 2.1 | .5 |
| 016 | 2.20 | 2.70 | 1.44 | .30 | 1.51 | 2.61 | 1.05 | 3.50 | 15.31 | 50.4 | .30 | 4.5 | 8.7 | 2.2 | 6.5 | 8.9 | - |
| 226 | 2.18 | 1.91 | 1.15 | .55 | 1.40 | 2.76 | 1.05 | 3.50 | 14.50 | 46.6 | .31 | 2.6 | 1.9 | 1.9 | 8.3 | 4.8 | .7 |
| 018 | 2.40 | 2.68 | 1.12 | .32 | 1.33 | 2.80 | 1.05 | 3.50 | 15.20 | 44.5 | .34 | 4.0 | 14.9 | .7 | 8.0 | 10.9 | - |
| 118 | 1.21 | 1.76 | 1.10 | .25 | .96 | 1.32 | 1.05 | 3.50 | 11.15 | 32.1 | .35 | 2.6 | 4.8 | 1.5 | 3.4 | 3.7 | .5 |
| 149 | 1.55 | 2.69 | 1.64 | .24 | 1.10 | 1.34 | 1.05 | 3.50 | 13.11 | 36.5 | .36 | 3.6 | 9.2 | 1.8 | 4.2 | 2.8 | .7 |
| 169 | 1.83 | 2.27 | .99 | .25 | 1.16 | 3.71 | 1.05 | 3.50 | 14.76 | 38.7 | .38 | 4.0 | 10.3 | 1.2 | 5.1 | 7.9 | - |
| 111 | 3.57 | 2.91 | 1.18 | .25 | 1.13 | 2.18 | 1.05 | 3.50 | 15.77 | 37.7 | .42 | 4.5 | 17.3 | - | 13.3 | 15.1 | - |
| 159 | 1.40 | 2.03 | 1.09 | .19 | .80 | 1.39 | 1.05 | 3.50 | 11.45 | 26.8 | .43 | 3.2 | .7 | 2.1 | 3.8 | 3.0 | .5 |
| 179 | 1.72 | 2.22 | 1.04 | .27 | .80 | 1.65 | 1.05 | 3.50 | 12.25 | 26.9 | .46 | 4.3 | 15.8 | .6 | 4.3 | 4.4 | .2 |
| 129 | 1.32 | 2.24 | 1.44 | .20 | .74 | .95 | 1.05 | 3.50 | 11.44 | 24.6 | .46 | 3.0 | 4.3 | 2.0 | 3.6 | 6.1 | - |
| 114 | 1.68 | 2.09 | 2.01 | .48 | .84 | 2.72 | 1.05 | 3.50 | 14.37 | 29.8 | .48 | 3.8 | 14.5 | - | 4.6 | 8.7 | - |
| **Avg.** | | | | | | | | | | | | | | | | | |
| 1937 | 1.78 | 2.16 | 1.29 | .29 | 1.26 | 1.78 | 1.05 | 3.50 | 13.11 | 42.4 | .31 | 3.4 | 8.6 | 1.2 | 5.5 | 6.2 | .2 |
| 1936 | 1.65 | 2.13 | .87 | .18 | .87 | 1.10 | 1.05 | 3.50 | 11.35 | 28.8 | .39 | 4.0 | 12.2 | 1.0 | 4.2 | 4.8 | .3 |
| 1935 | 1.63 | 1.94 | 1.34 | .17 | .90 | .75 | 1.06 | 3.50 | 11.29 | 31.8 | .36 | 3.2 | 11.6 | .7 | 4.9 | 5.9 | .3 |

## Cost per Acre of Producing Winter Wheat - 1937

| Farm no. | Costs | | | | | | | | | Yield bu. | Cost per bu. | Labor | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | To Harvest | | | Harvesting | | |
| | Man | Horse & tractor | Seed | Twine | Thresh-ing | Manure | Mach-inery | Land | Total | | | Man | Horse | Tractor | Man | Horse | Tractor |
| 210 | $1.95 | $1.93 | $2.28 | $.42 | $.78 | $2.05 | $1.05 | $3.50 | $13.96 | 26.0 | $.54 | 2.6 | 2.8 | 1.9 | 7.2 | 5.3 | .5 |
| 159 | 2.33 | 2.97 | 1.91 | .26 | .71 | .59 | 1.05 | 3.50 | 13.32 | 23.8 | .56 | 3.6 | 3.4 | 2.4 | 8.0 | 7.9 | .6 |
| 189 | 1.80 | 2.02 | 2.07 | .21 | .71 | 2.10 | 1.05 | 3.50 | 13.46 | 23.7 | .57 | 2.9 | 7.2 | 1.0 | 6.1 | 3.0 | .7 |
| 236 | 1.57 | 1.90 | 1.76 | .22 | .57 | 1.29 | 1.05 | 3.50 | 11.86 | 19.1 | .62 | 2.8 | 2.4 | 2.2 | 5.1 | 4.3 | .4 |
| 118 | 1.43 | 1.78 | 2.22 | .25 | .54 | 1.33 | 1.05 | 3.50 | 12.10 | 18.2 | .67 | 2.4 | 4.6 | 1.4 | 4.7 | 4.0 | .6 |
| 116 | 1.87 | 2.03 | 1.84 | .30 | .52 | .85 | 1.05 | 3.50 | 11.96 | 17.3 | .69 | 3.7 | 13.0 | .5 | 5.7 | 3.6 | .6 |
| 129 | .78 | 1.26 | 1.73 | .19 | .38 | .92 | 1.05 | 3.50 | 9.81 | 12.5 | .78 | 1.7 | 3.1 | 1.0 | 2.2 | 3.9 | - |
| 027 | 1.80 | 1.91 | 2.42 | .23 | .50 | 2.99 | 1.05 | 3.50 | 14.40 | 16.8 | .86 | 3.6 | 14.2 | - | 5.4 | 7.0 | - |
| 018 | 2.66 | 2.63 | 2.93 | .17 | .56 | 2.83 | 1.05 | 3.50 | 16.33 | 18.6 | .88 | 4.0 | 19.0 | - | 9.3 | 10.3 | - |
| 014 | 2.33 | 3.25 | 2.15 | .17 | .49 | 1.40 | 1.05 | 3.50 | 14.34 | 16.2 | .88 | 6.2 | 23.6 | .5 | 5.5 | 8.7 | - |
| 169 | 2.56 | 2.74 | 2.20 | .18 | .51 | 2.54 | 1.05 | 3.50 | 15.28 | 16.9 | .90 | 4.9 | 13.6 | .7 | 7.9 | 13.0 | - |
| 179 | 1.97 | 2.17 | 2.52 | .21 | .43 | 1.40 | 1.05 | 3.50 | 13.25 | 14.3 | .93 | 4.6 | 14.3 | .7 | 5.3 | 6.2 | - |
| 123 | 2.43 | 2.66 | 2.95 | .30 | 1.29 | 1.03 | 1.05 | 3.50 | 15.21 | 16.2 | .94 | 6.1 | 19.7 | - | 6.0 | 5.0 | .9 |
| 119 | 1.35 | 1.79 | 3.80 | .16 | .39 | .60 | 1.05 | 3.50 | 12.64 | 13.0 | .98 | 3.6 | 12.2 | .6 | 3.1 | 3.1 | - |
| 028 | 1.59 | 1.97 | 2.26 | .31 | .63 | 1.99 | 1.05 | 3.50 | 13.30 | 12.7 | 1.05 | 3.0 | 2.3 | 2.4 | 5.0 | 6.3 | - |
| 016 | 2.03 | 2.59 | 2.15 | .20 | .40 | 2.05 | 1.05 | 3.50 | 13.97 | 13.2 | 1.06 | 4.1 | 9.2 | 1.6 | 6.1 | 10.4 | - |
| 121 | .81 | 1.33 | 2.23 | .23 | .24 | .65 | 1.05 | 3.50 | 10.04 | 8.0 | 1.25 | 1.7 | 3.4 | .9 | 2.3 | 1.4 | .5 |
| Avg. 1937 | 1.84 | 2.17 | 2.32 | .24 | .57 | 1.56 | 1.05 | 3.50 | 13.25 | 16.9 | .78 | 3.6 | 9.9 | 1.0 | 5.6 | 6.0 | .3 |
| 1936 | 1.94 | 2.31 | 1.95 | .16 | .67 | 1.08 | 1.16 | 3.50 | 12.77 | 16.8 | .76 | 4.2 | 13.7 | .8 | 5.5 | 7.0 | .2 |
| 1935 | 2.22 | 2.08 | 1.97 | .21 | .75 | .58 | 1.05 | 3.50 | 12.36 | 23.5 | .53 | 2.7 | 9.6 | .7 | 8.4 | 9.4 | .3 |

## Cost per Acre of Producing Spring Wheat - 1937

| Farm no. | Costs | | | | | | | | | Yield bu. | Cost per bu. | Labor | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Man | Horse & tractor | Seed | Twine | Thresh-ing | Manure | Mach-inery | Land | Total | | | To Harvest | | | Harvesting | | |
| | | | | | | | | | | | | Man | Horse | Tractor | Man | Horse | Tractor |
| 119 | $1.38 | $1.90 | $2.06 | $.16 | $.54 | $.77 | $1.05 | $3.50 | $11.36 | 19.2 | $.59 | 3.0 | 7.6 | 1.2 | 3.9 | 2.8 | .3 |
| 017 | 2.50 | 2.09 | 3.65 | .44 | .62 | 1.17 | 1.05 | 3.50 | 15.02 | 20.5 | .73 | 3.2 | 8.4 | - | 9.3 | 14.7 | - |
| 129 | .90 | 1.85 | 2.51 | .19 | .38 | .92 | 1.05 | 3.50 | 11.30 | 12.6 | .90 | 2.6 | 2.9 | 1.9 | 1.8 | 3.9 | - |
| 014 | 1.49 | 1.99 | 2.77 | .28 | .41 | 1.19 | 1.05 | 3.50 | 12.68 | 13.3 | .95 | 2.2 | 2.3 | 1.6 | 5.3 | 8.4 | - |
| 028 | 1.88 | 2.15 | 1.93 | .31 | .62 | .94 | 1.05 | 3.50 | 12.38 | 12.5 | .99 | 3.2 | 3.5 | 2.3 | 6.2 | 7.5 | - |
| 149 | 1.87 | 3.54 | 2.76 | .11 | .35 | 1.29 | 1.05 | 3.50 | 14.47 | 11.7 | 1.24 | 5.5 | 13.7 | 2.6 | 3.8 | 2.7 | .6 |
| Avg. | | | | | | | | | | | | | | | | | |
| 1937 | 1.67 | 2.25 | 2.61 | .25 | .49 | 1.05 | 1.05 | 3.50 | 12.87 | 15.0 | .86 | 3.3 | 6.4 | 1.6 | 5.0 | 6.7 | .2 |
| 1935 | 1.70 | 1.85 | 1.83 | .18 | .42 | .68 | 1.05 | 3.50 | 11.21 | 11.0 | 1.02 | 3.2 | 10.8 | .6 | 5.3 | 5.2 | .4 |

## Cost per Acre of Producing Oats and Barley - 1937

| Farm no. | Costs | | | | | | | | | Yield bu.* | Cost per bu. | Labor | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Man | Horse & tractor | Seed | Twine | Thresh-ing | Manure | Mach-inery | Land | Total | | | To Harvest | | | Harvesting | | |
| | | | | | | | | | | | | Man | Horse | Tractor | Man | Horse | Tractor |
| 229 | $2.29 | $2.59 | $1.79 | $.29 | $1.72 | $1.59 | $1.05 | $3.50 | $14.82 | 52.9 | $.28 | 4.8 | 6.7 | 2.7 | 6.6 | 6.9 | - |
| 123 | 2.28 | 2.43 | 2.15 | .30 | 1.41 | 1.18 | 1.05 | 3.50 | 14.30 | 43.4 | .33 | 4.6 | 11.6 | 1.0 | 6.8 | 4.2 | 1.0 |
| 139 | 1.74 | 2.02 | 2.44 | .36 | 1.77 | 1.30 | 1.05 | 3.50 | 14.18 | 40.8 | .35 | 3.8 | 14.9 | - | 4.9 | 7.4 | - |
| 109 | 2.46 | 2.48 | 1.76 | .24 | 1.19 | 2.51 | 1.05 | 3.50 | 15.19 | 37.5 | .38 | 4.1 | 5.0 | 2.2 | 7.5 | 4.8 | .7 |
| 189 | 1.60 | 2.08 | 2.84 | .25 | 1.34 | 2.09 | 1.05 | 3.50 | 14.75 | 36.7 | .40 | 2.2 | 1.7 | 1.7 | 5.8 | 4.5 | .6 |
| 017 | 1.81 | 1.98 | 1.79 | .16 | .96 | 1.18 | 1.05 | 3.50 | 12.43 | 29.7 | .42 | 4.1 | 16.1 | - | 5.0 | 5.9 | - |
| Avg. | | | | | | | | | | | | | | | | | |
| 1937 | 2.03 | 2.26 | 2.13 | .27 | 1.40 | 1.64 | 1.05 | 3.50 | 14.28 | 40.2 | .36 | 3.9 | 9.3 | 1.3 | 6.1 | 5.6 | .4 |
| 1936 | 1.83 | 2.04 | 1.28 | .22 | .82 | 1.59 | 1.05 | 3.50 | 12.33 | 27.5 | .45 | 4.0 | 12.0 | .8 | 5.1 | 5.2 | .5 |
| 1935 | 1.52 | 1.90 | 2.00 | .16 | .67 | .35 | 1.05 | 3.50 | 11.15 | 21.3 | .52 | 3.3 | 12.6 | .5 | 4.3 | 4.0 | .5 |

*At 40 pounds per bushel.

## Cost per Acre of Producting Corn (Husked) - 1937

| Farm no. | Costs | | | | | | | | Yield bu. | Cost per bu. | Labor | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | To Harvest | | | Harvesting | | |
| | Man | Horse & tractor | Seed | Husker | Manure | Machinery | Land | Total | | | Man | Horse | Tractor | Man | Horse | Tractor |
| 123 | $5.06 | $5.44 | $.77 | $.40 | $3.39 | $1.55 | $3.50 | $20.11 | 78.8 | $.26 | 12.5 | 21.0 | 2.5 | 12.8 | 22.9 | .4 |
| 189 | 3.89 | 3.49 | .47 | - | 2.09 | 1.55 | 3.50 | 14.99 | 57.0 | .26 | 6.2 | 12.2 | 1.2 | 13.2 | 18.0 | - |
| 159 | 2.49 | 4.66 | .59 | .89 | - | 1.55 | 3.50 | 13.68 | 50.0 | .27 | 6.3 | 5.2 | 4.1 | 6.2 | 10.5 | .9 |
| 027 | 4.30 | 6.19 | .94 | - | 2.37 | 1.55 | 3.50 | 18.85 | 66.6 | .28 | 11.1 | 17.8 | 5.7 | 10.4 | 19.5 | - |
| 116 | 2.64 | 3.84 | .84 | 1.28 | 1.75 | 1.55 | 3.50 | 15.40 | 53.1 | .29 | 7.6 | 13.3 | 3.1 | 5.6 | 4.9 | 1.3 |
| 028 | 5.40 | 4.15 | 1.25 | - | 1.83 | 1.55 | 3.50 | 17.68 | 58.0 | .30 | 7.8 | 16.2 | 2.0 | 19.2 | 18.8 | - |
| 229 | 6.40 | 5.29 | 1.10 | - | 2.50 | 1.55 | 3.50 | 20.34 | 63.5 | .32 | 16.4 | 24.8 | 2.2 | 15.6 | 21.9 | - |
| 109 | 1.75 | 2.14 | .38 | - | 1.83 | 1.55 | 3.50 | 11.15 | 33.5 | .33 | 5.9 | 12.1 | 1.1 | 2.8 | 5.5 | - |
| 226 | 3.25 | 3.93 | .52 | - | 2.19 | 1.55 | 3.50 | 14.94 | 44.4 | .34 | 6.1 | 4.2 | 4.0 | 10.1 | 17.3 | - |
| 169 | 6.23 | 5.29 | .50 | - | 3.17 | 1.55 | 3.50 | 20.24 | 60.0 | .34 | 16.2 | 34.8 | 1.2 | 15.0 | 17.6 | - |
| 111 | 4.38 | 3.50 | .47 | - | .82 | 1.55 | 3.50 | 14.22 | 26.8 | .53 | 10.5 | 28.0 | - | 11.3 | 10.9 | - |
| 129 | 1.88 | 3.18 | .91 | - | 2.60 | 1.55 | 3.50 | 13.62 | 25.5 | .53 | 6.3 | 6.6 | 3.3 | 3.1 | 4.7 | - |
| 179 | 2.58 | 3.70 | .49 | 1.68 | 4.60 | 1.55 | 3.50 | 18.10 | 29.6 | .61 | 10.2 | 17.5 | 1.8 | 2.7 | 4.3 | 1.7 |
| 121 | 3.82 | 4.41 | .45 | - | .64 | 1.55 | 3.50 | 14.37 | 21.4 | .67 | 8.7 | 15.6 | 2.1 | 10.4 | 17.9 | - |
| 018 | 6.00 | 6.21 | .30 | - | 4.17 | 1.55 | 3.50 | 21.73 | 22.0 | .99 | 14.1 | 29.5 | 3.4 | 15.9 | 20.7 | - |
| Avg. | | | | | | | | | | | | | | | | |
| 1937 | 4.01 | 4.36 | .67 | .28 | 2.26 | 1.55 | 3.50 | 16.63 | 46.0 | .36 | 9.7 | 17.3 | 2.5 | 10.3 | 14.3 | .3 |
| 1936 | 4.62 | 4.16 | .76 | - | 3.12 | 1.55 | 3.50 | 17.71 | 31.4 | .56 | 11.8 | 24.3 | 1.4 | 11.3 | 17.3 | - |
| 1935 | 4.45 | 4.40 | .42 | .19 | 1.80 | 1.55 | 3.50 | 16.31 | 38.1 | .43 | 11.8 | 28.1 | 1.1 | 10.4 | 17.0 | .3 |

Cost per Acre of Producing Corn (Shredded) - 1937

| Farm no. | Costs | | | | | | | | | Stover credit | Net cost | Yield bu. | Cost per bu. | Labor | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | To Harvest | | | Harvesting | | |
| | Man | Horse & tractor | Seed | Twine | Shredder | Manure | Machinery | Land | Total | | | | | Man | Horse | Tractor | Man | Horse | Tractor |
| 123 | $7.62 | $5.10 | $.48 | $.37 | $2.44 | $3.39 | $2.50 | $3.50 | $25.40 | $4.37 | $21.03 | 78.8 | $.27 | 12.2 | 21.0 | 2.4 | 25.9 | 22.5 | - |
| 109 | 4.89 | 4.13 | .50 | .61 | 2.61 | 2.79 | 2.50 | 3.50 | 21.53 | 3.43 | 18.10 | 56.5 | .32 | 8.4 | 14.3 | 2.4 | 16.1 | 18.3 | - |
| 149 | 4.83 | 5.17 | .52 | .49 | 1.30 | 3.15 | 2.50 | 3.50 | 21.46 | 3.17 | 18.29 | 57.1 | .32 | 11.7 | 25.9 | 1.9 | 12.4 | 15.4 | .3 |
| 210 | 4.29 | 4.34 | .39 | 1.19 | 1.15 | 1.72 | 2.50 | 3.50 | 19.08 | 3.56 | 15.52 | 48.4 | .32 | 10.9 | 13.5 | 3.9 | 10.6 | 12.9 | - |
| 139 | 5.79 | 4.90 | .56 | .26 | 1.26 | 1.08 | 2.50 | 3.50 | 19.85 | 2.35 | 17.50 | 49.0 | .36 | 11.3 | 32.2 | - | 17.6 | 22.2 | - |
| 017 | 6.66 | 4.79 | .70 | .52 | 2.30 | 3.07 | 2.50 | 3.50 | 24.04 | 1.29 | 22.75 | 61.6 | .37 | 11.5 | 29.5 | .2 | 21.8 | 22.4 | - |
| 014 | 5.62 | 4.94 | .35 | .55 | 3.23 | 1.17 | 2.50 | 3.50 | 21.86 | 2.70 | 19.16 | 50.7 | .38 | 9.0 | 21.0 | 1.8 | 19.1 | 21.0 | - |
| 116 | 4.91 | 4.78 | .51 | .41 | 5.18 | 1.43 | 2.50 | 3.50 | 23.22 | 3.17 | 20.05 | 53.1 | .38 | 8.0 | 17.7 | 2.4 | 16.6 | 22.0 | - |
| 016 | 5.80 | 5.62 | .52 | .54 | 1.48 | 3.39 | 2.50 | 3.50 | 23.35 | 2.92 | 20.43 | 50.2 | .41 | 14.7 | 26.6 | 2.8 | 14.3 | 20.1 | - |
| 111 | 6.23 | 4.58 | .53 | .21 | 2.00 | 1.16 | 2.50 | 3.50 | 20.71 | 2.68 | 18.03 | 44.1 | .41 | 11.0 | 30.4 | - | 20.1 | 20.4 | - |
| 114 | 6.69 | 4.59 | .50 | .41 | 2.40 | 2.76 | 2.50 | 3.50 | 23.35 | 3.02 | 20.33 | 49.5 | .41 | 12.0 | 30.9 | - | 21.4 | 20.1 | - |
| 119 | 4.84 | 5.06 | 1.14 | .39 | 1.95 | 3.78 | 2.50 | 3.50 | 23.16 | 2.62 | 20.54 | 44.6 | .46 | 9.8 | 15.9 | 2.7 | 14.4 | 20.6 | - |
| 028 | 4.06 | 3.73 | .52 | .78 | 1.15 | 1.64 | 2.50 | 3.50 | 17.88 | 1.88 | 16.00 | 33.0 | .48 | 6.5 | 10.9 | 2.7 | 13.8 | 15.8 | - |
| 169 | 7.00 | 6.27 | .28 | .43 | 2.40 | 10.55 | 2.50 | 3.50 | 32.93 | 2.56 | 30.37 | 50.2 | .60 | 13.3 | 27.6 | 1.9 | 21.7 | 31.4 | - |
| 118 | 5.41 | 5.00 | .52 | .47 | 2.77 | 6.30 | 2.50 | 3.50 | 26.47 | 1.58 | 24.89 | 27.6 | .90 | 9.5 | 15.0 | 2.2 | 17.5 | 28.4 | - |
| 018 | 7.06 | 5.94 | .33 | .25 | 2.06 | 8.32 | 2.50 | 3.50 | 29.96 | 1.72 | 28.24 | 29.9 | .95 | 17.3 | 31.7 | 1.5 | 18.0 | 26.1 | - |
| Avg. | | | | | | | | | | | | | | | | | | | |
| 1937 | 5.74 | 4.93 | .52 | .49 | 2.23 | 3.48 | 2.50 | 3.50 | 23.39 | 2.69 | 20.70 | 49.0 | .42 | 11.1 | 22.8 | 1.8 | 17.6 | 21.2 | - |
| 1936 | 5.18 | 4.34 | .64 | .25 | 1.49 | 3.08 | 2.48 | 3.50 | 20.96 | 2.08 | 18.88 | 27.5 | .69 | 10.5 | 24.1 | 1.2 | 15.4 | 21.8 | - |
| 1935 | 5.92 | 4.83 | .48 | .27 | 1.74 | 2.48 | 2.50 | 3.50 | 21.72 | 1.18 | 20.54 | 32.3 | .64 | 11.9 | 28.1 | .9 | 17.6 | 25.8 | - |

## Cost per Acre of Producing Corn Silage - 1937

| Farm no. | Costs | | | | | | | | | Corn credit | Net cost | Yield tons | Cost per ton | Labor | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | To Harvest | | | Harvesting | | |
| | Man | Horse & tractor | Seed | Twine | Cutter | Manure | Machinery | Land | Total | | | | | Man | Horse | Tractor | Man | Horse | Tractor |
| 123 | $4.93 | $4.85 | $.51 | $.38 | $2.35 | $2.55 | $2.50 | $3.50 | $21.57 | $1.87 | $19.70 | 13.1 | $1.50 | 11.4 | 20.9 | 1.8 | 13.3 | 22.9 | - |
| 210 | 4.37 | 4.47 | .41 | 1.19 | 2.09 | 2.52 | 2.50 | 3.50 | 21.05 | .75 | 20.30 | 12.1 | 1.63 | 9.4 | 11.2 | 3.6 | 12.5 | 18.3 | - |
| 028 | 4.00 | 3.99 | .50 | .78 | 1.90 | 1.56 | 2.50 | 3.50 | 18.73 | 1.43 | 17.30 | 10.6 | 1.64 | 7.4 | 16.1 | 2.0 | 12.6 | 17.3 | - |
| 226 | 3.30 | 4.17 | .60 | .44 | 1.70 | 4.09 | 2.50 | 3.50 | 20.30 | .67 | 19.63 | 11.6 | 1.69 | 6.8 | 3.8 | 4.8 | 9.7 | 11.8 | .7 |
| 109 | 3.24 | 3.54 | .46 | .61 | 1.79 | 3.91 | 2.50 | 3.50 | 19.55 | .43 | 19.12 | 10.5 | 1.82 | 7.6 | 13.4 | 2.2 | 8.6 | 13.8 | - |
| 114 | 4.88 | 4.00 | .48 | .41 | 2.31 | 2.25 | 2.50 | 3.50 | 20.33 | 1.96 | 18.37 | 9.7 | 1.90 | 7.4 | 21.5 | - | 17.0 | 23.0 | - |
| 149 | 4.13 | 5.27 | .50 | .52 | 1.99 | 3.13 | 2.50 | 3.50 | 21.54 | 1.22 | 20.32 | 9.6 | 2.13 | 12.4 | 25.9 | 2.3 | 8.2 | 13.9 | .3 |
| 159 | 3.64 | 4.63 | .73 | .36 | 2.52 | 2.44 | 2.50 | 3.50 | 20.32 | 1.36 | 18.96 | 8.3 | 2.30 | 6.2 | 5.7 | 3.7 | 12.0 | 19.2 | - |
| 139 | 4.48 | 4.77 | .49 | .25 | 2.07 | 3.18 | 2.50 | 3.50 | 21.24 | .96 | 20.28 | 8.7 | 2.34 | 13.3 | 35.2 | - | 9.1 | 17.8 | - |
| 111 | 4.05 | 4.06 | .42 | .23 | 2.01 | 1.26 | 2.50 | 3.50 | 18.03 | - | 18.03 | 7.6 | 2.37 | 11.5 | 30.2 | - | 8.7 | 14.9 | - |
| 017 | 4.42 | 4.10 | .76 | .40 | 2.19 | 2.58 | 2.50 | 3.50 | 20.45 | .50 | 19.95 | 8.4 | 2.37 | 10.0 | 25.5 | .6 | 12.1 | 16.7 | - |
| 121 | 3.21 | 3.62 | .34 | .30 | 1.84 | .64 | 2.50 | 3.50 | 15.95 | - | 15.95 | 6.7 | 2.38 | 8.5 | 15.2 | 2.2 | 7.5 | 9.5 | - |
| 119 | 3.20 | 3.87 | .71 | .36 | 2.05 | 2.44 | 2.50 | 3.50 | 18.63 | .25 | 18.38 | 7.0 | 2.64 | 9.6 | 18.6 | 2.2 | 6.4 | 8.6 | - |
| 014 | 2.51 | 3.65 | .47 | .56 | 1.77 | 1.11 | 2.50 | 3.50 | 16.07 | .94 | 15.13 | 5.7 | 2.68 | 7.9 | 22.4 | 1.3 | 4.7 | 8.8 | - |
| 118 | 4.01 | 3.80 | .54 | .44 | 2.02 | 2.28 | 2.50 | 3.50 | 19.09 | 1.24 | 17.85 | 6.6 | 2.72 | 9.2 | 14.7 | 2.2 | 10.9 | 15.4 | - |
| 018 | 4.99 | 5.53 | .34 | .43 | 2.30 | 5.29 | 2.50 | 3.50 | 24.88 | .60 | 24.28 | 8.9 | 2.74 | 14.2 | 35.1 | 1.8 | 10.8 | 16.3 | - |
| 169 | 4.46 | 4.54 | .59 | .42 | 2.07 | 3.41 | 2.50 | 3.50 | 21.49 | 2.85 | 18.64 | 6.5 | 2.89 | 13.6 | 28.8 | 1.0 | 8.7 | 16.2 | - |
| 027 | 4.20 | 6.06 | .52 | .54 | 2.12 | 2.34 | 2.50 | 3.50 | 21.78 | .77 | 21.01 | 7.3 | 2.89 | 11.0 | 17.7 | 5.6 | 10.0 | 10.3 | 1.4 |
| 229 | 5.15 | 4.55 | 1.06 | .37 | 1.90 | 2.08 | 2.50 | 3.50 | 21.11 | 3.10 | 18.01 | 6.1 | 2.91 | 17.0 | 25.5 | 2.2 | 8.7 | 12.8 | - |
| 189 | 3.41 | 4.04 | .50 | .26 | 2.22 | 3.17 | 2.50 | 3.50 | 19.60 | 1.95 | 17.65 | 5.8 | 3.04 | 7.7 | 13.5 | 2.1 | 9.4 | 16.1 | - |
| 016 | 4.87 | 4.91 | .52 | .54 | 1.99 | 3.42 | 2.50 | 3.50 | 22.25 | .63 | 21.62 | 6.7 | 3.21 | 13.4 | 23.6 | 2.5 | 11.0 | 17.0 | - |
| 179 | 4.30 | 5.32 | .46 | .49 | 1.80 | 1.74 | 2.50 | 3.50 | 20.11 | 1.12 | 18.99 | 5.2 | 3.66 | 14.3 | 32.1 | 2.5 | 7.2 | 12.8 | - |
| 129 | 3.79 | 5.40 | .98 | .28 | 2.16 | 3.74 | 2.50 | 3.50 | 22.35 | .53 | 21.82 | 5.8 | 3.77 | 12.1 | 15.6 | 4.6 | 6.8 | 10.9 | - |
| **Avg.** | | | | | | | | | | | | | | | | | | | |
| 1937 | 4.07 | 4.48 | .56 | .46 | 2.05 | 2.66 | 2.50 | 3.50 | 20.28 | 1.09 | 19.19 | 8.2 | 2.34 | 10.5 | 20.5 | 2.2 | 9.8 | 15.0 | .1 |
| 1936 | 3.92 | 4.00 | .74 | .26 | 2.05 | 3.28 | 2.50 | 3.50 | 20.25 | 3.35 | 16.90 | 5.1 | 3.31 | 11.3 | 24.8 | 1.5 | 8.3 | 14.4 | - |
| 1935 | 4.34 | 4.06 | .64 | .34 | 2.40 | 2.41 | 2.50 | 3.50 | 20.19 | .80 | 19.39 | 7.4 | 2.62 | 10.1 | 24.0 | 1.1 | 11.6 | 19.0 | - |

## Cost per Acre of Producing Alfalfa Hay - 1937

| Farm no. | Costs | | | | | | | Yield tons | Cost per ton | Hours | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | First Cutting | | | Second Cutting | | | | Third Cutting | | | |
| | Man | Horse & tractor | Seed | Manure | Mach-inery | Land | Total | | | Man | Horse | Tractor | % cut | Man | Horse | Tractor | % cut | Man | Horse | Tractor |
| 210 | $2.17 | $1.26 | $1.20 | $2.05 | $1.05 | $3.50 | $11.23 | 3.4 | $3.30 | 8.2 | 8.7 | .3 | 100 | 2.7 | 3.7 | - | - | - | - | - |
| 139 | 1.82 | 1.39 | 1.20 | 1.16 | 1.05 | 3.50 | 10.12 | 2.4 | 4.22 | 5.5 | 9.2 | - | 100 | 3.6 | 6.2 | - | - | - | - | - |
| 129 | 2.02 | 1.55 | 1.20 | .92 | 1.50 | 3.50 | 10.69 | 2.5 | 4.28 | 6.1 | 10.3 | - | 100 | 3.0 | 5.0 | - | 100 | 1.0 | 1.9 | - |
| 114 | 3.28 | 2.90 | 1.20 | 3.39 | 1.05 | 3.50 | 15.32 | 3.5 | 4.38 | 12.5 | 24.4 | - | 100 | 3.9 | 7.8 | - | - | - | - | - |
| 149 | 1.87 | 1.63 | 1.20 | 1.25 | 1.28 | 3.50 | 10.73 | 2.3 | 4.67 | 5.1 | 7.9 | .4 | 100 | 3.3 | 6.2 | - | 52 | 1.0 | 1.4 | - |
| 109 | 1.56 | 1.19 | 1.20 | 2.46 | 1.02 | 3.50 | 10.93 | 2.3 | 4.75 | 5.4 | 8.0 | .2 | 80 | 2.1 | 3.1 | - | 16 | .3 | .7 | - |
| 028 | 1.38 | .86 | 1.20 | 1.65 | .55 | 3.50 | 9.14 | 1.9 | 4.81 | 6.9 | 9.5 | - | - | - | - | - | - | - | - | - |
| 027 | 2.10 | 2.16 | 1.20 | 2.39 | 1.05 | 3.50 | 12.40 | 2.5 | 4.96 | 6.9 | 9.8 | 1.2 | 100 | 3.6 | 4.5 | .6 | - | - | - | - |
| 169 | 2.05 | 1.56 | 1.20 | 2.40 | 1.44 | 3.50 | 12.15 | 2.4 | 5.06 | 5.8 | 9.8 | - | 100 | 3.4 | 6.1 | - | 87 | 1.0 | 1.5 | - |
| 014 | 1.57 | 1.16 | 1.20 | .75 | 1.05 | 3.50 | 9.23 | 1.8 | 5.13 | 3.6 | 6.7 | - | 100 | 4.3 | 6.2 | - | - | - | - | - |
| 119 | 1.37 | 1.32 | 1.20 | .92 | 1.05 | 3.50 | 9.36 | 1.8 | 5.20 | 4.6 | 6.0 | .7 | 100 | 2.3 | 3.8 | - | - | - | - | - |
| 236 | 1.56 | 1.11 | 1.20 | 1.62 | 1.05 | 3.50 | 10.04 | 1.9 | 5.28 | 4.4 | 6.8 | - | 100 | 3.4 | 5.0 | .1 | - | - | - | - |
| 189 | 1.74 | 1.22 | 1.20 | 2.15 | 1.05 | 3.50 | 10.86 | 2.0 | 5.43 | 5.2 | 7.5 | .1 | 100 | 3.5 | 5.3 | - | - | - | - | - |
| 123 | 1.47 | 1.23 | 1.20 | 1.01 | 1.05 | 3.50 | 9.46 | 1.7 | 5.56 | 5.2 | 6.1 | .8 | 100 | 2.1 | 2.4 | .1 | - | - | - | - |
| 179 | 2.43 | 1.55 | 1.20 | 1.45 | 1.05 | 3.50 | 11.18 | 1.9 | 5.88 | 8.5 | 10.8 | - | 100 | 3.6 | 5.1 | .2 | - | - | - | - |
| 226 | 1.74 | 1.26 | 1.20 | 3.37 | 1.17 | 3.50 | 12.24 | 2.0 | 6.12 | 6.1 | 6.1 | .7 | 85 | 1.5 | 2.2 | - | 43 | 1.1 | 1.8 | - |
| 159 | 1.89 | 2.47 | 1.20 | 1.63 | 1.02 | 3.50 | 11.71 | 1.9 | 6.16 | 7.1 | 8.2 | 1.8 | 74 | 2.3 | 1.8 | .6 | - | - | - | - |
| 016 | 1.82 | 1.39 | 1.20 | 1.99 | 1.05 | 3.50 | 10.95 | 1.7 | 6.44 | 6.1 | 8.9 | .3 | 100 | 3.0 | 5.0 | - | - | - | - | - |
| 111 | .82 | .93 | 1.20 | 1.16 | .65 | 3.50 | 8.26 | 1.2 | 6.88 | 7.9 | 8.4 | - | 21 | 1.2 | 1.9 | - | - | - | - | - |
| 118 | 1.61 | 1.58 | 1.20 | 1.04 | .98 | 3.50 | 9.91 | 1.4 | 7.08 | 6.4 | 11.0 | .7 | 86 | 1.6 | 3.0 | - | - | - | - | - |
| 018 | 1.78 | 1.29 | 1.20 | 2.83 | 1.05 | 3.50 | 11.65 | 1.5 | 7.77 | 5.0 | 7.5 | - | 100 | 3.9 | 6.9 | - | - | - | - | - |
| Avg. 1937 | 1.81 | 1.48 | 1.20 | 1.79 | 1.06 | 3.50 | 10.84 | 2.1 | 5.16 | 6.3 | 9.2 | .3 | 88 | 2.8 | 4.3 | .1 | 14 | .2 | .3 | - |
| 1936 | 2.50 | 1.69 | 1.20 | 1.44 | 1.20 | 3.50 | 11.53 | 1.9 | 6.07 | 6.6 | 10.0 | .2 | 96 | 3.8 | 6.3 | .1 | 35 | 2.1 | 2.9 | .1 |
| 1935 | 2.80 | 1.86 | 1.10 | .75 | 1.21 | 3.50 | 11.22 | 3.1 | 3.62 | 7.6 | 11.4 | .2 | 90 | 5.2 | 7.6 | .2 | 26 | 1.2 | 1.7 | - |