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object: The objects in view in conducting this study of farm costs are:

I-To compare the profit between different crops and different classes of livestock in order that a farmer may more systematically plan his business.

2-To determine the best methods of production by studying the methods of those who are consistently low cost producers. Among the 23 farms included on this route in 1921 , the cost of 100 lbs of gain on hogs varied from $\$ 3.60$ to $\$ 7.20$, and the cost of a bushel of corn from 32 to 92 cents. The methods used by these low cost producers can be imitated by all.

3-To determine the quantity of labor, feed and other elements of cost entering into the production of any given product. Then by applying current prices of feed, labor, etc., close estimates of cost can be made for any given price situation.

4-To furnish Congress, State Legislatures, and the various governmental agencies which deal with policies affecting the farming business with dependable information as to farm costs and profits. For example, figures from this cost route were presented with good effect in 1921 before the Inter-State Commerce Commission in the hearing on grain freight rates.

How Supported: Jointly financed by the University of Minnesota and the U. S. Department of Agriculture.
Method of Getting Costs: During 1921, twenty-three farmers furnished the material for complete cost records. A route man is stationed at Window, who visits edh farm two or three times per week, gathering complete records of every detail of the farm business. Inventories
were taken at the beginning and end of the year. Every hour of labor performed and every dol. ${ }^{7}$ r of cash received or paid out was recorded. Complete feed records were kept for all classes of livestock. Each field was carefully measured in order to determine the yield on the acre basis.

These figures were sent to the Cost Accounting
Section of the Experiment Station where all computing was done by trained accountants. Two such routes are being conducted in Minnesota. The other route is in Steele County.

STATISTICS FOR YEAR ENDING MARCH 1,1922 (Average of 23 farms on Cottonwood-Jackson Route)

|  | Average | Lowest | Highest |
| :---: | :---: | :---: | :---: |
| Acres per farm | 178 | 80 | 317 |
| Crop acres per farm | 131 | 52 | 226 |
| Hours labor by proprietor per weed day | 10.1 | 7.2 | 12.3 |
| Hours labor by proprietor per Sunday | 4.6 | 2.0 | 8.2 |
| Hours unpaid labor per day | 4.0 | . 5 | 11.2 |
| Days hired labor per year | 71 | 0 | 313 |
| Averacte cost man labor per hour (including board) | $21 \not \subset$ |  |  |
| Acres of crops per work horse |  |  |  |
| ( not including pasture) | $22 \frac{1}{2}$ | $7 \frac{1}{2}$ | $47 \frac{1}{2}$ |
| Hours labor per horse per year | 830 | 458 | 1294 |
| Cost of horse labor per hour Yields: | $10 \frac{1}{2}$ ¢ | $73 / 4$ | $13 \frac{1}{2} \varnothing$ |
| Corn, bushels | 45 | 24 | 60 |
| Silage, tons | 8 | 6 | 9 |
| Oats, bushels | 33 | 19 | 45 |
| Tame hay, tons | 1.5 | 1.0 | 2.4 |
| Cost per Ton or Lb : |  |  |  |
| $x$ Corn, per bu. | $37 \not \subset$ | 318 | $91 \not \subset$ |
| $x$ Oats, per bu. | (.) $35 \not \subset$ | $27 \not 6$ | $55 \not \approx$ |
| $x$ Tame hay, per ton | 5.85 | $\$ \quad 5.41$ | $\$ \quad 7.59$ |
| Butterfat, per lb | $46 \varnothing$ | $24 \not \subset$ | $\begin{array}{r} 88 \not{ }_{7} \\ 7 \end{array}$ |

Crops per 160 acres:
$\begin{array}{ll}\text { Corn grain } & 50 \text { acres } \\ \text { Small gre } & 422^{\frac{1}{2}}{ }^{\prime \prime} \\ \text { Tame hay } & 23\end{array}$
$x-I a n d$ rent figured as $2 / 50$ : the crop.

## AVERAGE RETURNS PER FARM - WINDOM 1921

Receipts:
Cream and other dairy products ..... \$ 366Cattle
Swine ..... 313
899
Poultry ..... 159Sheep59
Crops ..... 2.24
Miscellaneous \& outside work ..... 118

Expenses:

Hired labor
Threshing, twine, seed etc.
\$ 71
95
Livestock purchases \& expenses Feeds purchased
Machincry and repairs
Building \& fence repairs 211 76

Taxes 200
laxes 139
Interest, actually paid 194
Rent, actually paid

Miscellaneous

Excess of cash receipts over
cash expenses \$883

Value of products used in house

Estimated house rent ( $12 \%$ of 2000)
240
Total income not counting decrease in inventory

Business Expenses, Not Cash:

| Decrease of inventory |  |
| :--- | ---: |
| Value of unpaid family labor |  |
| except operator's 1464 hrs. © |  |

Total
\$ 581
Excess of incone over expenses (Pay for 3360 hrs . of lekor of proprietor and interest on investment of $\$ 23,000$ )
\$ 772
( $1 \mathrm{~V}, \operatorname{Cost} \frac{\mathrm{C} O R \mathrm{~N}, \mathrm{~N}}{\mathrm{of} \text { Production, } 23}$ Farms 1921)

| Man hours | $17.5 @ 20 \notin$ | $\$ 3.50$ |
| :--- | ---: | ---: |
| Horse hours $41.5 @ 10 \notin$ | 4.15 |  |
| Seed cost |  | .53 |
| Machinery | 1.75 |  |

Total operating cost
$\$ 9.93$
Yield 45 bu.
Tenant's share, $2 / 5$ rental basis 27 bu.
Cost of production per bu. (tenant's share) $37 \not \subset$
(Av. Cost of Production, 23 Farms 1921)

| Man hours | $7.07 @ 20 \notin$ | $\$ 1.41$ |
| :--- | ---: | ---: |
| Horse hours | $15.80 @ 10 \notin$ | 1.58 |
| Seed cost |  | .98 |
| Threshing | 1.03 |  |
| Twine | .36 |  |
| Machinery | 1.50 |  |

Total operating cost $\$ 6.86$
Yield 32.9 bu.

Tenants share, $2 / 5$ rental basis 19.7 bu.

Cost of production per bu. (tenant's share)

$$
\frac{\text { COST OF GAINS ON HOGS ( } 100 \text { IB. BASIS) }}{\text { (Average of } 23 \text { farms, } 1921 \text { ) }}
$$

Man labor 3.5 hrs @ 20\&
Horse labor, 4 hrs @ $10 \not \%$
Grain 569\# @ 29\& per 56\#
Milk 83\# @ 15\& per loo\#
$\$ .70$
2.96

Miscellaneous cash cost
.12
Interest
.07
Shelter
.37

Total cost
$\$ 4.59$
Average sale price
Profit

