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## THE WEST OF SCOTLAND AGRICULTURAL COLLEGE ECONOMICS DEPARTMENT REPORT

# COST OF PRODUCTION FIGURES FOR SOME FODDER CROPS IN SOUTH-WEST SCOTLAND CROP OF 1948 

## FOREWORD.

The investigation into the costs of crop production was continued for the 1948 crop, the emphasis being placed on fodder crops of importance in milk production in order to provide basic information for the milk cost investigation. For the 1948 crop the objective of the costing programme was to obtain more information on the greencrops (turnips, kale, etc.), and on the home protein crops (mashlum, beans and arable silage), and to place less stress on production costs for oats and hay. During the year cost records from 3 grass silage crops and 4 linseed crops became available, and these are briefly reported on. The cost of production figures for earlier cropping years have been given in "Report No. 4-1946," "Report No. 6-1947," and in "Report No. 4-1948."

Information from a total of 90 crops is available as follows :-Oats, 13 crops; Mashlum, I3 crops; Beans, 8 crops; Turnips, 29 crops; Kale, 4 crops ; Mangolds, 3 crops ; Arable Silage, 13 crops; Grass Silage, 3 crops ; and Linseed, 4 crops.

Weather conditions in the autumn of 1948 had an effect on the costs of the grain and pulse crops as the long continued period of wet weather increased handling charges. With some of the linseed crops unfavourable weather and delayed harvesting meant a considerable loss in grain yield.

Acknowledgment is made, with thanks, of the assistance given by those farmers whose cost records are the basis of the information given, and also of the field investigation work of M. S. Muir, R. D. Murray, A. J. Spalding, and R. M. Sturgeon.

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## SUMMARY.

The cost figures obtained summarise as :-


The averages given as net costs under column (a) are those obtained with all costed crops combined to represent one inclusive field. Under column (b) the averages are net costs with each crop given equal weight in obtaining the average costs.

The cost figures for the small samples of Mangolds, Grass Silage and Linseed are shown in following sections.

Methods of handling and storing the arable silage crops were so varied that any average statement of labour and power use is impossible, but for the five main crops the figures were :-

Average Labour and Power Use per Acre.

|  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Man <br> Hours. | Horse Hours. | Tractor Hours. | Hired <br> Machin Hours |
| Oats ... | $\ldots$ | 46 | 19 | 5 | $\frac{1}{2}$ |
| Mashlum | $\cdots$ | 60 | 9 | $10 \frac{1}{2}$ | $\stackrel{1}{1}$ |
| Beans ... | ... | 66 | 30 | 6 | 1 |
| Turnips ... | $\cdots$ | 120 | 38 | 14 | - |
| Kale ... | ... | 129 | 27 | 29 | - |

The Appendix Tables are as follows:-
Table I. Cost per Acre and per Ton. Oat Crop of 1948.
Table 2. Per Acre Structure and Cost of Labour and Power Use. Oat Crop of 1948
Table 3. Cost per Acre and per Ton. Mashlum Crop of 1948.
Table 4. Cost per Acre and per Ton. Bean Crop of 1948.
Table 5. Cost per Acre and per Ton. Turnip Crop of 1948.
Table 6. Per Acre Structure and Cost of Labour and Power Use. Turnip Crop of 1948.
Table 7. Cost per Acre and per Ton. Kale Crop of 1948.
Table 8. Per Acre Structure and Cost of Labour and Power Use. Mashlum, Bean and Kale Crops of 1948.

## NOTES ON THE INDIVIDUAL CROPS.

## Oats.

The costing records refer to 13 crops covering a total of 118 acres. Treating all crops as making up one "field " of 118 acres, the average cost per acre, threshed out, was $£_{16} 11 /-$ after crediting straw, or $£_{15} 1 /-$ per ton of grain after crediting straw. Average yields were 2I cwts. of grain and 22 cwts. of straw per acre.

The alternative method of preparing average costs, that is, averaging the individually calculated per acre and per ton costs for each crop, thereby giving an equal weight to each crop irrespective of size of field, yield, etc., gave averages of $£_{17} \mathrm{I} /-$ per acre or $£_{15} \mathrm{I} 6 /-$ per ton after crediting straw. Average yields were 22 cwts. of grain and $22 \frac{1}{2} \mathrm{cwts}$. of straw per acre.

The average labour and power use per acre was 46 man hours, 19 horse hours, 5 tractor hours, and $\frac{1}{2}$ hour of hired machinery, the latter wholly for threshing.

## Mashlum.

The costing records for this crop-a mixture of oats and beans-related to 13 crops with a total acreage of 100 acres. Treating all crops as making up one " field" of 100 acres, the average cost per acre, threshed out, was $£ 233 /-$ after crediting straw or $£ 1717 /$ - per ton of grain after crediting straw, these costs relating to average yields of 26 cwts. grain and 25 cwts. of straw.

The average of the individually calculated per acre and per ton costs for each separate crop was $£ 23 \mathrm{I} 3 /-$ per acre or $£ 19$ 17/- per ton, average yields of grain and straw being 24 cwts and 23 cwts .

The average labour and power use per acre was 60 man hours, 9 horse hours, $10 \frac{1}{2}$ tractor hours and almost I hour of hired machinery, wholly for threshing.

## Beans.

A total of 8 costing records covered a total of 50 acres, the average yields being $17 \frac{1}{2} \mathrm{cwts}$. of grain and about $15 \frac{1}{2}$ cwts. of straw. Treating all crops as making up one "field" of 50 acres, the average cost per acre, threshed out, was $£ 259 /-$ after crediting straw or $£_{2} 293 /-$ per ton of grain after crediting straw.

The average of the individually calculated per acre and per ton costs for each separate crop was $£ 263 /$ - per acre or $£ 30 \mathrm{I} 3 /$ - per ton, the yields being 19 cwts of grain and 16 cwts . of straw.

The average labour and power use per acre was 66 man hours, 30 horse hours, 6 tractor hours, and I hour of hired machinery for threshing.

## Turnips and Swedes.

In all, 29 cost records for this crop were completed, representing a total of 216 acres and an average yield of just over 16 tons of roots per acre. Treating all crops as making up one " field" of 216 acres gave an average cost per acre, at the farm steading ready to feed, of $£ 307 /$ or about $37 /$ - per ton.

The average of the individually calculated costs for each separate crop was $£ 33 \mathrm{I} /-$ per acre and $£_{\mathrm{I}} \mathrm{I} 16 /-$ per ton.
The average labour and power use per acre was 120 man hours, 38 horse hours, and I4 tractor hours.

## Kale.

The 4 kale crops costed covered a total of just short of 9 acres. Taking all crops as making up a "field" of this size, the average costed out at $£ 405 /-$ per acre or $38 /-$ per ton at the steading ready to feed. The alternative method of averaging gave closely similar results of $£ 40$ per acre and $38 /-$ per ton.

The average labour and power use per acre was 129 man hours, 27 horse hours, and 29 tractor hours.

## Mangolds.

Among the 3 mangold costs was one of 3 acres, giving an exceptionally high yield, estimated at 48 tons per acre. Cost per acre of this crop was $£ 68$ but cost per ton worked out at $27 /$-. For the next crop, grown on 2 acres and yielding 30 tons per acre, the per acre cost was $£ 4 \mathrm{I}$ Io/- and the per ton cost was $28 /-$. The remaining crop, yielding 21 tons per acre from 2 acres, showed a per acre cost of $£ 44$ and a per ton cost of $41 /-$

## Arable Silage.

Cost records were completed for 13 crops, but as the methods of handling after the stage of "ready to cut " and the methods of storage were very varied, complete and comparable average figures up to a common end point were not obtainable.

A summary of the available information is :-
For 7 crops cut before filling into silo:-
Crop A. Estimated mature yield, 8.3 tons per acre from 30 acres.
Cost per mature ton, $£ 1 \quad 15 / 5$.
Handled by cutlift and into high tower silo.
Crop B. Estimated mature yield, 9 tons per acre from 20 acres. Cost per mature ton, $£_{2} \mathrm{II} / \mathrm{I}$. Into high tower silo.
Crop C. Estimated mature yield, $11 \cdot 7$ tons per acre from 12 acres. Cost per mature ton, $£^{2} \mathrm{o} / \mathrm{I} 0$. Into low tower silo.
Crop D. Estimated mature yield, $8 \cdot 3$ tons per acre from 3 acres. Cost per mature ton, $£ 3$ 19/II. Into low tower silo.
Crop E. Estimated mature yield, 10.5 tons per acre from 6 acres. Cost per mature ton, $£_{2}^{2} 3 / 4$. Into low tower silo.
Crop F. Estimated mature yield, $7 \cdot 8$ tons per acre from 18 acres. Cost per mature ton, fir 19/9. Into wire and paper silo.
Crop G. Estimated mature yield, 13 tons per acre from 8 acres. Cost per mature ton, $£_{2}$ 12/10. Into pit silo.

For 6 crops filled into silo without a preliminary cutting or chaffing before filling :-
Crop H. Estimated mature yield, 6 tons per acre from 2 acres.
Cost per mature ton, $£ 4$ 16/6. Into low tower silo.
Crop I. Estimated mature yield, 9 tons per acre from in acres. Cost per mature ton, $£_{2}^{2} 15 / \mathrm{I}$. Into wire and paper silo.
Crop J. Estimated mature yield, 10.5 tons per acre from 3 acres. Cost per mature ton, $£^{2}$ 19/6. Into pit silo.
Crop K. Estimated mature yield, 9 tons per acre from 5 acres. Cost per mature ton, $£^{2}$ 15/7. Into pit silo.
Crop L. Estimated mature yield, 12 tons per acre from 5 acres. Cost peer mature ton, $£^{2}$ 17/4. Into pit silo.
Crop M. Estimated mature yield, $5 \frac{1}{4}$ tons per acre from 2 acres. Cost per mature ton, $£^{2}$ I $5 / 3$. Into stack silo.

These figures represent a first attempt at costing the arable silage crop and in the course of the work several difficulties, some of which were not successfully resolved, were met with.

Lacking an actual weighing out of silo at feeding time, the estimation of mature yield, even before allowing for wastage, cannot give close accuracy, and the estimates given above are presented with reserve. Where expensive specialist machinery was used the application of an appropriate rate of depreciation raised difficulties, and the similar problem of the effective life and annual charges on various types of tower and pit silos also require further consideration.

It is probably true to say that the estimated mature yields will tend to overstate the weight of palatable silage available for feeding, but taking the figures of yield as estimated, the average cost per mature ton, before allowing for wastage during the stored period, was approximately $47 /$ - with the individual costs merged to make one complete "field" of 123 acres. The cost structure on the 12 crops filled into a silo or pit was:-


These costs represent $47 /$ - per ton on an estimated mature yield of just over 9 tons per acre. Cost at feeding would probably be around $50 /-$ to $55 /-$ per ton.

By the alternative method of averaging, namely, an average of the individually calculated per ton costs for the separate crops, the cost per mature ton averaged $55 /$ in silo or pit.

## Grass Silage.

Results from only 3 crops are available and, as with the arable silage costs, the method of handling varied considerably even within such a small sample. A detailed statement of average costs of this crop has been left over till some future year when an appreciable sample of costs is being handled. Brief notes may be of interest.

Crop A was from 26 acres, all of which, excepting 6 acres of 3 -year-old grass, was from old permanent pasture. Over a 6-7 acre portion a second cut was taken and is included with the main cut. The estimated green yield, in silo, was 130 tons. A greencrop loader was used in the field. Some of the manuring was considered to be long-term improvement manuring. Cost per ton in silo was over 80/-, the high cost being partly due to high charges for man and tractor labour in cutting, carting in and filling.

Crop B was from 18 acres, the crop being cut by the reaper and hand forked in field and at pit. The estimated green yield was 115 tons from 18 acres. Cost per green ton was around $40 /$-.

Crop C, cut from 26 acres, gave an estimated green yield of 86 tons at a cost per green ton of about $60 /-$. The crop was handled in the field by a greencrop loader.

Over the 3 combined crops-of which Crop A had several untypical and high cost features-the average cost per green ton in silo was 60/-. This is a complete cost, containing all possible charges against the crop with the sharing of costs between hay cuts, winter grazing, etc., made as accurately as possible.

The structure of the average per ton cost, treating the three combined crops as one crop, was :-
On Estimated Green
Yield in Silo.
Cost per Ton.
Share to Silage of Charges from Previous Crops:-

| Dung, Lime and Manure Residues | ... | ... | ... | ... | $\ldots$ | ... | ... | £0 | 311 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Original Sow-out cost | ... | ... | ... | ... | ... | $\cdots$ | $\ldots$ | 0 |  |

Share to Silage of Charges for all 1948 Uses of Field :-


Direct Charges to Silage:-
Manures (net) applied before silage ... .... ... ... ... ... ... o 34
Man, Horse and-Tractor Work from manuring to covering $\ldots$... ...
Overhead share ... ... ... ... ... ... ... ... ... ... o I3 o
Materials, special machinery depreciation and annual charge for silo $\ldots$...

If weight shrinkage in the silo and waste before feeding is taken into account, the above average of $60 /-$ per ton would be exceeded. It has to be stressed, however, that the results from these three crops are not necessarily typical of a wider average. The present method of allocating farm overhead expenses resulted in the average charge for this item being $15 / 6$ per ton or roughly one-quarter of the cost.

The average labour and power use, markedly increased by the figures of Crop A; were $6 \frac{1}{2}$ man hours, $\frac{3}{4}$ horse hour, and $2 \frac{1}{2}$ tractor hours per green ton.

## Linseed.

Cost records covering 4 crops were completed but in the case of three of the crops the small acreages grown represented experimental areas rather than commercial crops grown on a larger scale. The cost results are, therefore, not typical of larger unit working and this aspect was intensified by the difficulties of the prolonged and wet harvest of 1948 ; at least 3 of the linseed crops losing grain heavily before being cut and carted into stack. Summarised details for the crops are :-

$$
\begin{array}{ll}
\text { Crop A. } & \begin{array}{l}
\text { Yield of } 7 \text { cwts. of grain per acre from } 2 \text { acres. } \\
\text { Cost, threshed, } £ 77 \text { per ton. }
\end{array} \\
\text { Crop B. } & \begin{array}{l}
\text { Yield of } 7 \frac{1}{2} \text { cwts. of grain per acre from } 9 \frac{1}{4} \text { acres. } \\
\text { Cost, threshed, } £ 41 \text { per ton. }
\end{array} \\
\text { Crop C. } & \begin{array}{l}
\text { Yield of } 8 \text { cwts. of grain per acre from I acre. } \\
\text { Cost, threshed, } £ 98 \text { per ton. }
\end{array} \\
\text { Crop D. } & \begin{array}{l}
\text { Yield of } 12 \text { cwts. of grain per acre from } \mathrm{I}_{2}^{1} \text { acres. } \\
\text { Cost, threshed, } £ 48 \text { per ton. }
\end{array}
\end{array}
$$

The costs stated cover up to and including threshing with the total cost borne by the grain-no credit having been given for the straw.

## COSTING METHODS AND CHARGES.

The crops were costed as " branch" or " enterprise " costs with actual purchase prices used for manures, seeds, and materials bought and with estimated cost used for those items where cost cannot be accurately known without "full" costing. Details of charges and estimates are as set out below :-
All purchased materials, casual labour and contract work


#### Abstract

Cost.




All work done by hired employees was charged at the actual gross rates of remuneration.
Overhead expenses were placed on each crop by a composite charge made up of $9 /-$ to $10 /-$ per acre, plus $5 /-$ to $5 / 3$ per $£$ of man labour, plus $3 /-$ to $3 / 8$ per " tractor-equivalent " hour.

With manuring and manurial residues the method of presentation was to show the full cost of the current year's manuring programme separately and to show manurial residues brought forward from past crops and carried forward to future crops as a separate calculation. The rates of exhaustion applied to the individual manures are those given in the official booklet issued by the Department of Agriculture for Scotland.

For all crops except the greencrops a charge was made of an approximate share of greencrop cultivation earlier in the rotation considered as being of benefit as cleaning cultivations to other crops in the rotation. Similarly, from the cultivation costs of the turnip, kale and mangold crops a deduction was made to represent the carry-forward of such cultivations to succeeding crops.

In calculating the net cost of grain per acre and per ton a deduction was made from the gross costs to represent an approximate sum chargeable to the joint-product-straw. The share so deducted varied from one-seventh to one-twelfth.

The averages given in the Appendix tables are those obtained by considering the total acreage costed for all crops as making up a single field of this size.

TABLE I .

OAT CROP OF 1948. AVERAGE COSTS PER ACRE AND PER TON. I3 CROPS THRESHED OUT.

| Number of Cost Records | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 13 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Acreage Costed | $\ldots$ | $\ldots$ | $\ldots$ |  |  |  |  |
| Average yield per Acre. | Grain | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | Ir 8 acres |
|  | Straw | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 21 cwts. |
|  |  |  |  |  |  | $\ldots$ | 22 cwts. |



TABLE 2.

OAT CROP OF 1948. STRUCTURE AND COST OF LABOUR AND POWER USE ON 13 CROPS.

|  | PreSowing. | Sowing. | Summer Work. | Harvesting. | Threshing. | Total. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hours of Work per Acre :- |  |  |  |  |  |  |
| Contract: Man Hours ... | - | - | - | . 04 | 83 | $\cdot 87$ |
| Horse Hours ... | .. - | - | - | - | - | - |
| Tractor Hours | - | - | - | . 04 | $\cdot 27$ | $\cdot 31$ |
| Other Machine Hours | - | - | - | - | 43 | -43 |
| Casual Workers ... | - | - | - | $2 \cdot 75$ | - | $2 \cdot 75$ |
| Farmer -.. | 78 | $\cdot 26$ | . 05 | 1.42 | $\cdot 29$ | $2 \cdot 80$ |
| Wife ... ... | - | - | - | - |  |  |
| All Other Farm Labour ... | 7.54 | $3 \cdot 50$ |  | $18 \cdot 10$ | $10 \cdot 72$ | 40.03 |
| Totals: Man Hours ... | $8 \cdot 32$ | $3 \cdot 76$ | . 22 | 22.31 | II. 84 | $46 \cdot 45$ |
| Horse Hours ... | 12.84 | $3 \cdot 33$ | - | $2 \cdot 48$ | $\cdot 24$ | 18.89 |
| Tractor Hours | I 99 | $\cdot 55$ | . 02 | I.86 | . 84 | $5 \cdot 26$ |
| Other Machine Hours | - | 5 | - | - | 43 | 43 |



TABLE 3.

## MASHLUM CROP OF 1948. AVERAGE COSTS PER ACRE AND PER TON. 13 CROPS THRESHED OUT.

| Number of Cost Records | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 13 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Acreage Costed | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ |  |  |  |
| Average yield per Acre. | Grain | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | Ioo acres |
|  | Straw | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 26 cwts. |
|  |  |  |  |  | $\ldots$ | $\ldots$ | 25 cwts. |



TABLE 4.

BEAN CROP OF 1948. AVERAGE COSTS PER ACRE AND PER TON. 8 CROPS THRESHED OUT.

| Number of Cost Records | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 8 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Acreage Costed | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ |
| Average yield per Acre. | Grain | $\ldots$ | $\ldots$ | acres |  |  |  |
|  | Straw | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | r71 |
|  |  |  |  |  | $\ldots$ | $\ldots$ | $15 \frac{1}{2}$ cwts. |



## TABLE 5

## TURNIP CROP OF 1948. AVERAGE COSTS PER ACRE AND PER TON. 29 CROPS AT STEADING READY TO FEED.

| Number of Cost Records | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 29 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Acreage Costed | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ |
| 216 acres |  |  |  |  |  |  |  |
| Average yield per Acre | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | I $6 \frac{1}{2}$ tons. |


|  |  |  |  | $\begin{aligned} & \text { Crop: } \\ & \text { Using } \end{aligned}$ | Averages Per Acre. |  |  |  |  | Averages Per Ton. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Average <br> 29 Crop |  | $£$ s. |  | ¢ s. |  |  |
| Dung (Tons) | $\ldots$ | $\cdots$ | ... | 18 |  | 6 |  | 31 |  |  |  |  |
| Lime (Cwts.) ... |  | ... | ... | 9 |  | $13 \frac{1}{2}$ |  | $\bigcirc 1$ |  |  |  |  |
| Slag (Cwts.) ... ... | ... | $\ldots$ | $\ldots$ | 4 |  | $1{ }^{3}$ |  |  | 4 |  |  |  |
| Mineral Phosphates (Cwts.) | $\ldots$ | $\ldots$ | ... |  |  |  |  |  |  |  |  |  |
| Rotational Manures (Cwts.) | $\ldots$ | $\ldots$ | ... | 29 |  | $10 \frac{1}{2}$ |  |  | 6 |  |  |  |
| Work. Ready to Sow ... | ... | ... | ... |  |  |  |  | 41 | - |  |  |  |
| Seeds, Purchased (Lbs.) ... | $\ldots$ | $\ldots$ | $\ldots$ |  |  | $3{ }^{3}$ | $\ldots$ | $\bigcirc 1$ | I |  |  |  |
| Work. Sowing ... ... | ... | $\ldots$ | $\ldots$ | $\ldots$ | $\cdots$ | ... | $\ldots$ | 1 | 9 |  |  |  |
| Materials to this stage ... | ... | ... | ... | $\ldots$ | $\ldots$ | ... | ... |  |  |  |  |  |
| Crop in Ground ... | $\ldots$ | $\ldots$ | $\ldots$ | ... | ... | $\ldots$ | $\ldots$ | 161 | 8 |  |  |  |
| Work. Summer ... | $\ldots$ | ... | ... | ... | $\ldots$ | $\ldots$ | $\ldots$ |  | 8 |  |  |  |
| Work. Shaw and In ... | $\ldots$ | ... | $\ldots$ | ... | ... | ... | ... |  | 6 |  |  |  |
| Materials for these stages | ... | ... | ... | ... | ... | ... | ... |  | I |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | 14 |  |
| Rent ... ... | $\ldots$ | $\cdots$ | $\cdots$ | $\cdots$ | $\cdots$ | $\ldots$ | $\cdots$ |  |  |  | 1 |  |
| Overhead Expenses | ... | ... | ... | ... | ... | ... | ... | 7 |  |  | 9 |  |
| Gross Cost ... ... | ... | $\cdots$ | $\cdots$ | ... | ... | ... | ... | 37 | I |  | 5 |  |

Adjust for Residues, etc. :-
Add from previous crops:-
Dung residues ... ..
Lime and manure residues

Deduct to following crops:-
Dung residues
Lime and manure residues
Cleaning cultivations
.. ... ... ... ... ... $0 \quad 45$
$\circ 03$

| $\circ$ I 3 |
| :--- |
| 2611 |

022
04 IO

Clal Deduction
$717 \quad 5$
Net Cost
$30 \quad 7 \quad 5$

TABLE 6.

TURNIP CROP OF 1948. STRUCTURE AND COST OF LABOUR AND POWER USE ON 29 CROPS


TABLE 7.

## KALE CROP OF 1948. AVERAGE COSTS PER ACRE AND PER TON. 4 CROPS AT STEADING READY TO FEED.

Number of Cost Records

| $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\cdots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $8 \frac{3}{4}$ acres |
| $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $2 I$ tons. |

Acreage Costed $\ldots$
Average yield per Acre.


TABLE 8.
STRUCTURE AND COST OF LABOUR AND POWER USE ON CERTAIN CROPS. CROP OF 1948-13 MASHLUM CROPS, 8 BEAN CROPS, AND 4 KALE CROPS.

Hours of Work per Acre.


| Mashlum Crops | Bean Crops | Kale Crops |
| :---: | :---: | :---: |
| Threshed Out. | Threshed Out. | Ready to Feed |
| I 76 | I 62 | - |
|  | - |  |
| . 53 | $\cdot 36$ | - |
| . 83 | I•IO | - |
| 4.33 | $2 \cdot 52$ | $4 \cdot 52$ |
| $3 \cdot 53$ | $3 \cdot 70$ | $26 \cdot 44$ |
|  | .08 | - |
| $50 \cdot 64$ | $58 \cdot 26$ | $98 \cdot 62$ |
| $60 \cdot 26$ | 66.18 | 129.58 |
| 9.05 | 30.05 | $27 \cdot 40$ |
| 10.51 | $5 \cdot 97$ | $28 \cdot 87$ |
| . 83 | I-10 | - |
| £ s. d. | £ s. d. | £ s. d. |
| 110 | 18 I | - |
| 0 10 9 | - 63 | 183 |
| - 7 II | $\bigcirc 84$ | 2196 |
|  | $\bigcirc 02$ | - |
| 5.52 | 620 | 101210 |
| - IT 8 | $\begin{array}{lll}1 & 17 & 5\end{array}$ | 1145 |
| 1153 | - 19 8 | 5 I 0 |
| 9127 | II I II | 21160 |

