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ECONOMIC STUDIES IN SHEEP FARMING IN WALES

NUMBER 5.

A Review of the Financial Results for 52

Identical Hill Sheep Flocks during the

Years 1960/61 to 1962/63.

by

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July, 1964.

INTRODUCTION.

The 52 identical hill flocks which provide the data for this report are, but for a small number of flocks, the same as those reviewed in a previous report in these series. Thus a degree of continuity has been maintained in the financial results since 1958/59.

About half the flocks in the sample were drawn from the county of Merioneth, whilst the remainder were drawn from Caernarvon, Denbigh, Brecon, and Mentgomery. The size distribution of the flocks is given in Table 1.

Size Distribution of Hill Flocks and Average Number of Breeding Ewes per Flock. 52 Identical Hill Flocks.

| | ; :1960/61. | 1961/62. | : 1962/63. |
|---|--|---|---|
| | :Average: : | :Average: : | :Average: : :Number: : |
| Size of Flock (Breeding Ewes). | :Breed-: : : ing :No. of: : Ewes.:Flocks: | :Breed-: : : ing :No. of: %. : Ewes.:Flocks: | :Breed-: : ing :No. of: %.: Ewes::Flocks: %. |
| Under 200 Over 200 & under 400 " 400 " " 600 " 600 " " 800 | : 138 : 5 : 328 : 14 : 511 : 11 : 696 : 11 : 1293 : 11 : | 10: 153: 5: 27: 326: 13: 21: 505: 11: 21: 697: 11: 21: 21: 21: 21: 21: 21: 21: 21: 21 | 10: 121: 3: 6 25: 306: 14: 27 21: 508: 13: 25 21: 698: 9: 17 23: 1209: 13: 25 |
| All Flocks | : : | • • • | 00: 639: 52: 100 |

During the three years there was a fall in the number of flocks with under 200 breeding ewes, and a slight increase in the number with over 800 breeding ewes which implies a slight shift towards larger flocks. The average number of breeding ewes per flock in the groups with between 400 and 800 breeding ewes remained fairly steady over the period, but those with under 400 and over 800 breeding ewes showed a decline in average numbers.

The stocking and cropping of the farms in the sample according to size of flock is given in Tables I and II of the Appendix. The acreage given is that which was continually in sole occupation by the farmer, but in many cases farms had in addition grazing rights on the open mountain.

Review of Financial Results for Years 1960/61 to 1962/63.

The dominant feature affecting the financial results for the 52 identical hill flocks during the period under review was weather conditions. Taking this into account the only favourable year was 1961 when the sheep benefited from the growth and quality of the pastures. Adverse weather conditions were experienced during 1962 and 1963.

^{*} Economic Studies in Sheep Farming in Wales, Number 4. (A review of financial results for 52 Identical Hill Sheep Flocks during the years 1958/59 to 1960/61).

Cold weather persisted during the first six months of 1962, being more intense in the early part of the year with widespread frost and snow. This had at least two consequences, firstly, it affected the lambing season, leading to relatively poor results; and, secondly, owing to the persistent cold weather the hay harvest produced a light crop which meant that home-grown fodder supplies were relatively lower than usual to meet what was to be a long and hard winter.

During the months July to September, 1962, moister conditions stimulated the growth of grass which enabled the sheep to improve in condition during the brief period of dry sunny weather in October. However, colder conditions returned in mid-November and were to persist until March 1963, with the land covered in snow for long periods and affected by hard frost. Following this long cold spell came a period of wet weather, with temperatures lower than normal for the time of year.

In the light of these conditions the average financial results per flock, as given in Table 2, revealed a fall of 13 per cent in output, and a cost increase of 27 per cent, with the consequence that the margin per flock fell by 66 per cent over the three years.

<u>Table 2.</u>
Output, Costs, and Margins per Flock
52 Identical Hill Flocks.

| | 1960/6 | 61 . | : : 190 | 61/62. | : : 1962 | 2/63. |
|--|--|--------------------------------|---|---|---|--------------------------------|
| | £. | | • | £. | : 4 | Ε. |
| Opening Valuation of Sheep Purchases of Sheep | • | | : : 30 | 675 94 | : : 376 | 54 51 |
| Total (A) | 381,4 | | : : 3' | | : : 382 | |
| Closing Valuation of Sheep Sales of Sheep Sales of Wool Hill Sheep Subsidy | 3675 1975 540 | | : 1' | 732 730 512 181 | 358 163 44 | 33 48 |
| Total (B) | <u>6293</u> | | : : 6 | 155 | : 59° | 77 |
| Output (B - A) | 2479 | | : 2 | 2386 | | 52 |
| Costs - Hand-Fed Foods Grazing Forage Crops Agistment Iabour Transport Miscellaneous Total | £. £. 31 : 243 : 19 : 393 : 463 : 39 : 214 : 1402 : 1402 | 18 1 28 33 3 15 | £. 44; 258; 24; 416; 490; 41; 227; ::1500 | 3 : 17 : 2 : 28 : 32 : 3 : 15 | £. 279 251 20 407 553 38 239 | 14 23 31 2 2 13 |
| Margin (Output - Costs) | £. 1077 | | • | £. 386 | : | |

The results for the 52 flocks by size of flock are given in Table III of the Appendix. The fall in margin per flock was least in those with under 200 breeding ewes, amounting to about 34 per cent, and greatest in those with over 800 breeding ewes, amounting to 85 per cent.

The frequency distribution of the flocks according to the margin obtained per ewe in Table 3 showed how relatively favourable conditions were in 1960/61 as compared with the other two years. In 1960/61 42 per cent of the flocks had a margin of over £2 per ewe as compared with 40 per cent of the flocks in 1962/63 with a margin of less than £1 per ewe, and a further 21 per cent which suffered a loss.

Table 3.

Distribution of Flocks According to Margin per Ewe.

52 Identical Hill Flocks.

| | | | | | | | | | | | | |
|--------------------|---|-----|------|-------|---------|-----|-----|-------|---|-------------|------|-------|
| | : | 1 | .960 | /61. | : :_ | 19 | 61/ | 62. | : | | 962, | /63. |
| Margin per Ewe. | : | No. | | %• | : | No. | : | %. | : | No. | : | %. |
| | : | | : | | 3 | | : | | : | | : | |
| Loss | • | - | 8 | - | : | l | : | 1.9 | 8 | 11 | : | 21.1 |
| Under £1 | : | 10 | | 19.2 | : | 14 | | 26.9 | : | 21 | : | 40.4 |
| Over £1 & under £2 | • | 20 | | 38.5 | | 26 | : | 50.0 | | 15 | : | 28.9 |
| Over £2 | : | 22 | : | 42.3 | : | 11 | 0 | 21.2 | : | 5_ | : | 9.6 |
| | : | | ; | | : | | : | | : | | : | |
| Total | • | 52 | : | 100.0 | | 52 | 0 | 100.0 | : | 52. | : | 100.0 |

The two items which accounted for the increase in costs were hand-fed foods and labour. Some increase in the cost of hand-feeding was noted in 1961/62 to meet the adverse weather conditions, but this item showed a tremendous increase in 1962/63 and accounted for 16 per cent of total costs. In nearly all cases the hand-feeding was of purchased food. The increase in labour cost reflected the increase in time spent in greater care and attention needed by the flocks during the difficult winters.

On the output side, although there was an overall fall of 13 per cent, income from the sale of sheep and wool fell by 17 per cent which was counterbalanced to some extent by an increase in the amount reveived under the Hill Sheep Subsidy. The latter payment is, however, a retrospective one, which when received in 1962/63 reflected conditions obtaining in 1961/62. To account for the fall in the income from the sale of sheep and wool it is necessary to consider the physical results of the enterprise over the three years, and the average prices realised for sheep and wool.

Table 4.

Productivity of Breeding Ewes per 100 Ewes Mated by

Size of Flock.

52 Identical Hill Flocks.

| Market and the second s | | : | | | Bre | eed | ing Ewes | per F | 'lo | ck. | | |
|--|---------------------------|----|--------------|----|--------------|-----|-----------------------------|---------------------|----------|----------------------|---|---------------------|
| • | | • | Under | : | | : | • | | : | Over | : | All |
| Y | ear. | : | 200 | :2 | 00-400 | 0:4 | <u> 00–600:6</u> | <u>00-80</u> 0 |): | 800 | : | Flocks |
| 1960/61: Ewes: | Lambing Barren Died | • | 89 8 3 | • | 91 8 1 | • | 92 : 6 : 2 : 100 : | 90 8 2 100 | • | 85 11 4 100 | : | 88 9 3 100 |
| 7.0/7.//2 | Total | ÷. | 100 | | 100 | - | 100 : | 100 | <u>.</u> | 100 | ÷ | |
| 1961/62: Ewcs: | Lambing Barren Died | | 91 4 5 | | 92 5 3 | • | 94 : 4 : 2 : | 91 7 2 | : | 89 8 3 | • | 91 7 2 |
| | Total | • | 100 | ; | 100 | ; | 100: | 100 | ÷ | 100 | : | 100 |
| 1962/63: Ewes: | Lambing Barren Died | | 88 6 6 | • | 94 4 2 | • | 91 : 5 : 4 : | 93 6 1 | • | 84 9 7 | • | 89 7 4 100 |
| | Total | 8 | 100 | : | 100 | : | 100 : | 100 | : | 100 | • | T00 |

The largest flocks, with over 800 breeding ewes, showed each year a higher than average number of barren ewes, and also, losses through death. In the second and third year the smallest flocks, with under 200 breeding ewes, suffered higher than average deaths in breeding ewes. This was probably a reflection of the variable quality of the ewes in these flocks, because the conditions under which they subsisted were relatively more favourable than those for the other size groups. The bad weather during two winters could have led to the general expectation of higher losses among ewes. In fact, however, although this was the case in many individual flocks, the average results reflect the careful management exercised, and in particular the handfeeding of the ewes which was carried out to a degree greater than usual.

The full impact of the weather conditions may be seen in the lambing results.

Table 5.

Lambing Results per 100 Ewes Mated by Size of Flock.

52 Identical Hill Flocks.

| | | Bred | eding Ewe | es per Fl | .ock. | |
|---|----------------|--------------------------|----------------|----------------|----------------|----------------|
| Year. | Under 200 | : :200-400 | :400–600: | 600–800 | 0ver 800 | All Flocks |
| <u>1960/61</u> - Lembs: Born Alive Died Weaned | 97 8 89 | : : 93 : 5 : 88 | 93 8 85 | 90 7 83 | 85 9 76 | 89 8 8 |
| 1961/62 - Lambs: Born Alive Died Weaned | 99 13 86 | 95 12 83 | 96 10 86 | 91 12 79 | 88 14 74 | 91 13 78 |
| 1962/63 - Iambs: Born Alive Died Weaned | 99 6 93 | 97 18 79 | 93 19 74 | 93 19 74 | 84 20 64 | 89 19 70 |

On the average, losses in lambs over the three years rose from 9 per cent to 21 per cent. In 1962/63, for example, the range by size of flock was from 6 per cent in the smallest to 24 per cent in the largest. A consequence of this situation is shown in Table 6.

<u>Table 6.</u>

<u>Disposal of Lambs Weaned per 100 Ewes Mated.</u>

52 Identical Hill Flocks.

| | 196 | 1960/61 | | 1961/62 | | | | 1962/63 | | |
|---|---------------------|-----------|----------------|---------------------------|---|---------------------|---|--------------------|---|-----|
| Retained: Ewe Lambs Ram Lambs Sold as Fat Lambs | No. 36 : 7 : 31 : 6 | : 1 | 5: 1: 9: | No. 35 1 8 26 | : | 45 1 10 34 | : | 30 1 8 22 | : | |
| Total | 81, | : : 10 | 00 | 78 | : | 100 | : | 70 | : | 100 |

Since these were self-maintained flocks, all ewe lambs were retained each year for flock replacements. With a relative fall in the number of weaned lambs, fewer ewe lambs were available for replacement purposes, with the result that the size of the breeding flock was ultimately affected.

This may be illustrated in the following way. The potential breeding flock is that given in the opening valuation at the beginning of the year, and consists of older ewes, shearling ewes, and ewe-lambs. On the one hand, the numbers drafted out during the year or lost through death may be represented as a percentage of this total; on the other, the ewe-lambs from a particular year's crop retained for replacement purposes may also be expressed as a percentage of it. For the three years under review, and on average for the 52 hill flocks, these figures were found to be as shown below.

| Year. | Ewes Died or Drafted out as Proportion of Total Ewes and Lambs in Opening Valuation. | Ewe-Lamb Replacements as Proportion of Total Ewes and Lambs in Opening Valuation. |
|---------|---|---|
| | %• | % |
| 1960/61 | 26 | 28 |
| 1961/62 | 27 | 27 |
| 1962/63 | 27 | 23 |

In the first year the replacements constituted a higher proportion than the ewes withdrawn or lost from the breeding flock. In the second year the proportions were about equal, but in the third year replacements fell short of requirements. The influence of this factor accounted for the variation in the average number of breeding over per flock in the different size groups, over the three years, which is apparent from Table 1.

Thus, in the years when weather conditions cause relatively heavy losses of lambs, the requirements that all ewe-lambs be retained for replacement purposes means, not only that fewer lambs are available for sale, but also that in order to make up for the deficiency in replacements relatively fewer ewes are drafted from the flocks. This point is illustrated in Table 7.

Table 7.

Number of Sheep Sold per 100 Breeding Ewes.

52 Identical Hill Flocks.

| | ; ; | 19 | 60 | 0/61. | : | 196 | 1, | /62. | : | 1962 | 2/ | 63. |
|---|----------------|---------------------|----|---------------------|--------|---------------------|------|--------------------------|-----------------|--------------------------|----|--------------------------|
| | : | No. | : | %. | : : | No. | : | %. | : | No. | : | %• |
| Draft Ewes Store Lambs Fat Lambs Wethers Rams & Ram Lambs | •• •• •• •• •• | 28 33 11 6 | : | 35 42 14 8 | • | 30 27 10 3 | •••• | 42 38 14 4 2 | • • • • • • • • | 27 23 13 4 1 | : | 40 34 19 6 1 |
| Total | : | 79 | : | 100 | : | 71 | : | 100 | : | 68 | : | 100 |

Although the average number of lambs sold per 100 breeding ewes fell over the three years, the proportion of this total which were sold fat increased from one quarter to one-third. The proportion of lambs sold fat is generally higher in the smaller flocks than in the larger ones, but in 1962/63 there was a marked increase, compared with other years, in the figure for the flocks with over 800 breeding ewes. On the average, fat lambs realised about £1 per head more than store lambs, as shown in Table 8.

Table 8.

Average Prices per Head for Sheep Sold.

52 Identical Hill Flocks.

| | :_ | 1960/61.: | 1961/62. | 1962/63. |
|---------------------------|----|------------------------|------------------------|----------|
| | : | £. s. d : | £. s. d | £. s. d |
| Draft Ewes Store Lambs | : | 3.10.5: 3.12.11: | 3.10.6 3.11.1 | 3. 7. 2 |
| Fat Lambs Wethers | | 4.17. 0 : 4.13. 4 : | 4.11. 8 : 4.14. 6 : | 4.11.10 |
| Rams & Ram Lambs | : | 15. 5.11 : | 12. 2. 4 | 12.17. 4 |

Draft ewes maintained a relatively stable price during the three years. The decline in the average price per head for store lambs was a reflection of the deterioration in their quality, caused by the weather conditions. The average prices per head by size of flock are given in Table VI in the Appendix.

The variation in the numbers of sheep sold per 100 breeding ewes, and in the average prices realised per head, is further reflected in the variation in the average percentage distribution of returns from the sale of sheep and wool, as shown in Table 9.

Table 9.

Percentage Distribution of Returns from the Sale of Sheep and Wool.

52 Identical Hill Flocks.

| | :_ | 1960/61. | | 1961/62 | : | 1962/63. | |
|--------------------------|--------|--------------|---|--------------|---|--------------|--|
| | : | %. | : | %• | : | %• | |
| Ewes | : | 24.3 | : | 29.7 | : | 29.0 | |
| Store Lambs Fat Lambs | : | 29.7 13.3 | : | 27.3 13.2 | : | 23.2 17.8 | |
| Wethers | : | 7.8 | • | 3.9 | • | 5.3 | |
| Rams & Ram Lambs Wool | : - | 3.4 21.5 | : | 3.0 22.9 | : | 3.2 21.5 | |
| Total | : | 100.0 | : | 100.0 | : | 100.0 | |

The distribution of returns for the flocks, by size groups, is given in Table VII, in the Appendix. The importance of wool in the total returns per 100 breeding ewes varied according to flock size, ranging in 1962/63 from 17 per cent in the smallest flocks to 24 per cent in the largest. This reflects the relatively greater number of sheep sold per 100 breeding ewes in the smaller flocks as compared with the larger ones. The total weight of wool sold from the 52 identical hill flocks fell from 128.3 thousand lb. in 1960/61 to 114.5 thousand lb. in 1962/63, and in addition the average price realised fell from 4s. $4\frac{1}{2}$ d. per 1b. to 4s. $0\frac{3}{4}$ d.

Consideration of the Results.

Size of flock is a factor of importance affecting the results of the hill sheep enterprise.

When considering the data relating to this enterprise it is necessary to bear in mind that it is conducted under a wide diversity of physical and environmental conditions. This explains the variation in physical results as between the smaller and the larger flocks. The former subsist under more favourable conditions, the ewes spending each winter on relatively low ground; whilst the latter, more or less continuously subsist under exposed conditions.

The financial results, however, show a rising margin between output and costs per flock as size of flock increases. Table 10 is derived from the data in Table III in the Appendix.

<u>Table 10.</u>

Margins per Flock - by Flock Size Group.

52 Identical Hill Flocks.

| Number of Breeding Ewes. | • | 1960/6 | 1.: | 1961/62. | • | 1962/63. | : Average : Margin : per Flock : over 3 Years |
|--------------------------------------|---|--------------|-----|-------------|---|------------|--|
| | • | £. | | £. | : | £. | £. |
| Under 200 200 - 400 | | 375 631 | • | 334 394 | : | 248 227 | 330 418 |
| 400 - 600 600 - 800 | • | 998 1428 | : | 861 1234 | : | 516 572 | : 776 : 1111 |
| Over 800 All Flocks | • | 1692 1077 | : | 1354 886 | : | 245 365 | : 1057 : 776 |

Taking into account these two features of flock size, the physical and the financial, one can imagine a line drawn from the one extreme of relatively good land to the other extreme of relatively poor land. The 52 identical hill flocks would then be placed along this line in order of size. That this situation is not too far removed from reality is shown in Tables I and II in the Appendix. There it can be seen that with declining quality of land there is an increase in flock size, and that the enterprise gradually changes from being a subsidiary one to being the major one on the farm. In this way size of flock is a factor of economic importance in its contribution to the fundamental problem of the hill farming areas, namely income. With a decline in the quality of the land, the enterprise becomes more extensive, the relative fall in the physical results is offset by larger numbers in flocks in order to ensure favourable financial results.

The fall in the margins per flock experienced over the three years has been attributed to the relatively unfavourable weather conditions which prevailed during two of them. Such a possibility is an accepted risk of hill farming. The question arising is whether there is some factor which can cushion, to some extent, the effects of bad weather. Here again flock size can be shown to be of importance. In the last column of Table 10 the average margin per flock over the three years, by flock-size, is given. The first year of the period was a relatively favourable one in terms of margin per flock, whilst the last year was relatively unfavourable. It is not wise to place too much emphasis on one year's results: they should be considered over a period of time. It can be seen from Table 10 that one way to overcome the swings in margins caused by weather conditions is the continuous possession of a relatively large-sized flock.

APPENDIX.

LAND UTILIZATION.

(Average of 3 years 1960/61, 1961/62, 1962/63.)

52 Identical Hill Flocks.

| population de describir de reconstructure de la construction de la con | Breeding Ewes. | ton Policul |
|--|--|-----------------------|
| | Under 200 : 200 - 400 : 400 - 600 : 600 - 800 : 800 & over : All Flocks. | |
| | Per :Per 100: Pe | 00 s. |
| Oats, Mixed Corn and Barley Potatoes Roots for Feeding Green Crop Hay Grazing Direct Reseeding Rough Grazing | : 4.7 | 5 2 5 9 1 |
| Total Buildings, Roads & Woodlands | : 160.6 :100.00 : 365.7 :100.00 : 479.9 : 99.82 : 788.7 : 99.63 :2068.1 : 99.98 : 851.2 : 99.90 : = : _ = : _ = : _ = : _ = : _ 0.8 : _ 0.18 : _ 2.9 : _ 0.37 : _ 0.3 : _ 0.02 : _ 0.8 : _ 0.10 | 0 |
| Total Farm Area | : 160.6 :100.00 : 365.7 :100.00 : 480.7 :100.00 : 791.6 :100.00 :2068.4 :100.00 : 852.0 :100.00 | - Marito |

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Table II.

Numbers of Livestock Carried.

Average of 3 years 1960-61 - 1962-63.

52 Identical Hill Flocks.

| The contraction is the contraction of the contracti | garerausarionessa economica e e e e e e e e e e e e e e e e e e e | CONTRACTOR OF SECURITION OF SE | | grig (173) og et præsi nstruktionskri tere er e Er er | anteriorista de la composition della composition | Breed | ing Ewe | S | e paga - resultente traballar i cara i cara i La companza di constitución de la constituc | en ig sam Britishing sementil Proposition (1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | र अवस्था क्षेत्र गावस्था इस्तानस्था विश्व विश्व इत्यास्थ्यास्थ्यास्थ्यास्य विश्व विश्व विश्व विश्व विश्व विश्व | ones permente de la constante |
|--|---|--|---------------------------------|---|--|--------------------------|-------------------------------|-----------------------|---|---|---|-------------------------------|
| | Unde | r 200 | 200 | - 400 | 400 | - 600 | 600 | - 800 | 800 <u>&</u> | over | All | Flocks |
| , | Per Farm | Per 100 | • | Per 100 | | Per 100 | | Per 100 | • | Per 100 | | Per 100 |
| Breeding Ewes Shearling Ewes Wethers Wether Lambs | : No. : 116 : 77 : 1 : 18 : 11 | No. | No. 314 119 3 25 | : No. : 86 : 32 : 1 : 7 : 3 | 1.00 | No.: 100: 45: 7: 7: 4 | No. 628 329 57 50 | No. 79 42 7 6 4 | No. 1148 487 124 95 | No. 56 23 6 5 | No. 589 264 48 48 25 | : No. : 69 : 31 : 6 : 5 : 3 |
| Rams and Ram Lambs Total Sheep | 223 | : : 139 | : 473 | : : 129 | 782 | 163 | 1090 | : : 138 | 1901 | 92 | 974 | 114 |
| Cows in milk and in calf Other Cattle 2 + years Cattle 1 - 2 years Calves 0 - 12 months | : : 13 : 3 : 7 : 8 | 8 2 4 5 | : : 13 : 5 : 7 : 10 | : 4 : 1 : 2 : 3 | 19 4 8 14 | : 4 : 1 : 1 : 3 | 19 12 15 17 | 2 2 2 2 2 | 16 6 8 11 | 1 neg. neg. | _ | 2 : 1 : 1 |
| Total Cattle | 31 | . 19 | : : 35 | : : 10 | : : 45 | . 9 | 63 | : : 8 | : : 41_ | , 2 , 2 , v. | 44 | 5 |
| Pigs Poultry Horses | : : 1 : 184 : 1 | neg. | : : 1 : 74 : neg. | | neg. 27 | : neg. : 6 : neg. | : 34 | neg. 4 neg. | : 22 | neg. | : 1 : 53 : 3 | neg. 6 1 |

9

Table III.

Output, Cests and Margins pen Fleck by Size of Flock.

| | Number of Farms | | Output | : Costs | Margin. |
|--------------|---------------------------|--|--------|---------------------------------|-------------------------|
| Under 200 | 5 5 5 | : 1960/61 : 1961/62 : 1962/63 | | £. 384 411 434 | £. 375 334 248 |
| 200 - 400 | 14 13 14 | 1960/61 1961/62 1962/63 | | 824 847 914 | 631 394 227 |
| 400 - 600 | : : 11 : 11 : 13 | : 1960/61 : 1961/62 : 1962/63 | | : : 1110 : 1275 : 1383 | 998 861 516 |
| 600 - 800 | 11 11 9 | 1960/61 1961/62 1962/63 | | 1444 1466 1916 | 1428 1234 572 |
| 800 and over | 11 12 13 | : 1960/61 : 1961/62 : 1962/63 | 4252 | 2848 2898 3356 | 1 692 1 354 245 |

Table IV.

Disposal of Weaned Lambs per 100 Ewes Mated.

By Size of Flock.

| вызвания первый при | - | ********* | | ······································ | an an analog and a | 4: W W Charles |
|---|--------------------------|-------------------------------|---------------------|--|---------------------|---------------------------|
| | 1960 | 0/61 | 196 | 1/62 | 196 | 2/63 |
| Under 200 Breeding Ewes: Retained: Ewe Lambs Ram Lambs Sold as Fat Lambs Sold as Store Lambs Lambs on Hand | No. 33 5 18 21 12 | 37 6 20 | 3 9 26 | : 43 : 3 : | 7 : - : 30 : | 45 8 - 32 |
| Total Weaned Lambs | COMPANIENTE NA . | TOP STORY THE STORY OF STREET | | 100 | | 100 |
| 200 - 400 Breeding Ewes: Retained: Ewe Lambs Ram Lambs Sold as Fat Lambs Sold as Store Lambs Lambs on Hand | 39 1:17: 27: | 44 1 | 35 1 14 22 | 42 1 | 31 | 39 |
| Total Weaned Lambs | 88 | 100 | 83 | 100 | 79 | 100 |
| 400 - 600 Breeding Ewes: Retained: Ewe Lambs Ram Lambs Sold as Fat Lambs Sold as Store Lambs Lambs on Hand | 37 1 13 30 4 | | 20 | 23 26 | 13: | 42 1 18 28 11 |
| Total Weaned Lambs | 85 | 100 | 86 | 100 | 74 | 100 |
| 600 - 800 Breeding Ewes: Retained: Ewe Lambs Ram Lambs Sold as Fat Lambs Sold as Store Lambs Lambs on Hand | 39 1 6 31 6 | 1 1 : | 1 1 2 1 2 1 | 1 : 15 : 27 : | 32 1 11 24 | 1 15 |
| Total Weaned Lambs | 83 | 100 | 79 | 100 | 74 | 100 |
| Retained: Ewe Lambs Ram Lambs Sold as Fat Lambs Sold as Store Lambs Lambs on Hand | 33 1 2 2 33 | 1 3 44 9 | 1 1 31 8 | easterman subsecutor | 2 2 23 9 | 3 3 36 14 |
| Total Weaned Lambs | 76 : | 100 | 74 | 100 | 64 | 100 |

Table V.

Number of Sheep Sold per 100 Breeding Ewes
by Size of Flock.

| 高変数で発われる。GRA GRA GRA GRA C PR (中では下記を2004年 C PR C P | TALINA WITHOUT THE | randra i velakende | | na trans e e d'ambrigas | ererer | - |
|---|----------------------------|--------------------|--------------------|-------------------------|---------------|----------------------|
| | : 1960 | 0/61 | : 196 | 1/62 | : 190 | 62/63 |
| Under 200 Breeding Ewes: Draft Ewes Store Lambs Fat Lambs Wethers Rams and Ram Lambs | No. 27 21 36 1 | : 1 | 15 29 1 | 33 20 39 | 30 14 1 | %. 35 37 17 |
| Total | 91 | 100 | 75 | 100 | 82 | 100 |
| 200 - 400 Breeding Ewes: Draft Ewes Store Lambs Fat Lambs Wethers Rams and Ram Lambs | 35 27 25 2 2 | 30 28 | 22 15 2 | 29 : 20 : | : 20 | 39 26 33 1 |
| Total | 91 | 100 | 76 | 100 | 79 | 100 |
| 400 - 600 Breeding Ewes: Draft Ewes Store Lambs Fat Lambs Wethers Rams and Ram Lambs | 30 31 17 3 | 38 | 23 23 3 | 29 | : 21 : | 40 28 30 1 |
| Total | 82 | 100 | 81 | 100 | 75 | 100 |
| 600 - 800 Breeding Ewes: Draft Ewes Store Lambs Fat Lambs Wethers Rams and Ram Lambs | 30 36 10 12 | 40 : 11 : | 23 : 13 | : 18 : | 25 : | 42 34 16 7 |
| Total | 89 | 100 | 72 | 100 | 74 | 100 |
| 800 & Over Breeding Ewes: Draft Ewes Store Lambs Fat Lambs Wethers Rams and Ram Lambs | 24 34 3 6 | 50 : | 33 : 1 : 3 : | 50 : | 24 : | |
| Total | 68 | 100 | 66 | 100 | 60 | 100 |

Table VI.

Average Prices Per Head for Sheep Sold.

52 Identical Hill Flocks.

| CORRECT TECHNICAL CONTRACTOR OF THE CONTRACTOR O | 1960/61. | 1961/62. | 1962/63. |
|--|---|---|--|
| Under 200 Breeding Ewes: Draft Ewes Store Lambs Fat Lambs Store Wethers Fat Wethers Rams and Ram Lambs | 3.13.11 : 3.16. 5 : 4.11.11 : 4. 6. 5 : | | 4.11. 9 3.19. 6 4.19. 7 |
| 200 - 400 Breeding Ewes: Draft Ewes Store Lambs Fat Lambs Store Wethers Fat Wethers Rams and Ram Lambs | 3. 9. 2 : 3.14. 0 : 4.19. 2 : 4. 2. 8 : 5. 0. 0 | 3.14.6 | 3. 5. 6 4. 4. 5 3.16. 4 |
| 400 - 600 Breeding Ewes: Draft Ewes Store Lambs Fat Lambs Store Wethers Fat Wethers Rams and Ram Lambs | 3.11.4 3.9.8 4.12.8 4.11.2 5.0.0 | | 3. 3. 1 4.12. 3 3.12. 6 5.12. 6 |
| 600 - 800 Breeding Ewes: Draft Ewes Store Lambs Fat Lambs Store Wethers Fat Wethers Rams and Ram Lambs | 3.11. 1 3.12. 4 4.19. 9 4.13. 6 4. 0. 0 | : 4.8.3 | 3. 7.11 4. 8. 2 4. 0. 3 4.11. 3 |
| Fat Wethers Rams and Ram Lambs | 3. 9.10 3.14. 1 4.18.10 4.16. 1 | 3. 8. 7 3.12. 6 4.13.10 4.12. 2 4.10. 0 10.15. 2 | 4. 8.10 4. 6. 8 5. 0. 0 |

Table VII.

Percentage Distribution of Returns from Sale of Sheep and Wool by Size of Flock.

| ###################################### | rangerine sterning programme the instrument | rannina simansi arri arri anda salar makin maginas dan makin | |
|--|---|---|---|
| | 1960/61 | 1961/62 | 1962/63 |
| Under 200: Ewes Store Lambs Fat Lambs Wethers Rams and Ram Lambs Wool | 29.5 0.9 | %. 21.6 12.0 29.6 1.2 18.3 17.3 | %. 25.1 22.5 13.5 0.4 21.9 16.6 |
| Total | 100.0 | 100.0 | 100.0 |
| 200 - 400: Ewes Store Lambs Fat Lambs Wethers Rams and Ram Lambs Wool | 26.1 21.9 26.4 | 33.2 21.0 19.7 1.6 3.9 20.6 | 28.9 17.9 30.2 0.9 3.2 18.9 |
| Total | 100.0 | 100.0 | 100.0 |
| Ewes Store Lambs Fat Lambs Wethers Rams and Ram Lambs Wool | 19.2 | 26.2 18.8 25.6 3.3 3.3 22.8 | 30.5 17.5 26.9 1.2 3.2 20.7 |
| Total | 100.0 | 100.0 | 100.0 |
| Ewes Store Lambs Fat Lambs Wethers Rams and Ram Lambs Wool | 11.1 | 32.0 21.7 17.1 4.8 3.3 21.1 | 30.0 23.5 16.1 5.7 4.3 20.4 |
| Total | 100.0 | 100.0 | 100.0 |
| Ewes Store Lambs Fat Lambs Wethers Rams and Ram Lambs Wool | 23.6 35.9 5.1 9.2 1.9 24.3 | 29.4 37.9 1.9 4.6 1.2 25.0 | 28.0 27.9 9.4 9.2 1.8 23.7 |
| Total | 100.0 | 100.0 | 100.0 |

Table VIII.

Output, Costs and Margins per Flook by Size of Flocks.

52 Identical Hill Flocks.

Under 200 Breeding Ewes.

| CONTRACTOR DESIGNATION CONTRACTOR | | | | | | | |
|--|--------------------------|------------------------|-------------------------|--------------------------|----------------------|---------------------------|--|
| | : 196 | 0/61 | 1961/62 | | 1962/63 | | |
| Output: | : | £. | : | £. | • | £. | |
| Opening Valuation of Sheep Purchases of Sheep | . : 938 : 913 : 29 : 6 : | | 913 6 | | : 817 : 17 | | |
| Total (A) | : 9 | 67 | : 9 | 19 | : : 8 | 34 | |
| Closing Valuation of Sheep Sales of Sheep Value of Wool Hill Sheep Special Payment | 939 648 119 | | 938 569 119 38 | | : 5 : 1 | 25 27 05 59 | |
| Total (B) | : : 17 | 26 | 16 | 1664 | | 16 | |
| Output (B - A) | : : 75 | 59 | : : 71 | +5 | : 68 | 32 | |
| Costs: Hand-Fed Foods Grazing Forage Crops Agistment Labour Transport Miscellaneous | £. 19 81 16 50 137 74 | 21 : 4 : 13 : 36 : 2 : | 45 141 7 | 8 18 8 11 34 | 40 : 86 : 79 : 151 : | 9 20 18 18 35 | |
| | 384 | 100 | 411 | 100 | 434 | 100 | |
| Margin (Output - Costs) | 3 | 75 | 33 | 34 | 248 | | |
| Number of Flocks | | <u>5</u> : | : | 5 : | | 3 | |

Table IX.

Output, Costs and Margins per Flock by Size of Flocks.

52 Identical Hill Flocks.

200 and Under 400 Breeding Ewes.

| OFFICIAL PROPERTY AND | TOTAL MATERIAL PROPERTY OF THE TAXABLE PROPERTY OF THE PARTY OF THE PA | | | | | |
|---|--|-----------------------------------|------------------------|---------------------------|----------|---------------------------------------|
| | 1960/61 | | 1961/62 | | 1962 | /63 |
| Output: Opening Valuation of Sheep Purchases of Sheep | : 187 | £. £. 1873 : 1770 129 : 110 | | 70 | £ 168 | 1 |
| Total (A) | 2002 | | 1880 | | : 173 | 7 |
| Closing Valuation of Sheep Sales of Sheep Value of Wool Hill Sheep Special Payment | 1887 : 1842 : 1236 : 945 : 282 : 245 : 52 : 89 | | +5 +5 | 1637 893 208 140 | | |
| Total (B) | 345 | 57 | 31 21 | | 2878 | |
| Output (B - A) | 145 | 5 | 124 | <u> 1</u> | 1141 | |
| Costs: Hand Fed Foods Grazing Forage Crops Agistment Labour Transport Miscellaneous | £. 10 : 191 : 195 : 155 : 294 : 18 : 137 | 36 2 | 11 : 175 : 285 : | 23 1 21 34 2 | : 10: | %. 11 19 16 36 2 15 |
| Total | 824 | 100 | 847 | 100 | 914:100 | |
| Margin (Output - Costs) | 63 | 1 | 394 | | 227 | |
| Number of Flocks | 1 | 4 | 1 | 3 | 1 1 | + |

Table X.

Output, Costs and Margins Per Flock by Size of Flock.

52 Identical Hill Flocks.

400-600 Breeding Ewes.

| | 1960/61 | | 196 [,] | 1961/62 | | 2/63 |
|---|---|--------------------------|------------------------------|-------------------------------|-------------------------|-------------------------|
| Output: Opening Valuation of Sheep Purchases of Sheep | 320 | 6. 06 57 | £. 3127 137 | | | 301 60 |
| Total (A) | 326 | 63 | 3264 | | : 3 | 361 |
| Closing Valuation of Sheep Sales of Sheep Value of Wool Hill Sheep Special Payment | 3202 : 1627 : 458 : 84 : | | 3230 1 560 460 1 50 | | : 12 | 45 190 388 237 |
| Total (B) | 5371 | | 5400 | | : 5260 | |
| Output (B - A) | 210 | 8 | 21 36 | | : : 1899 | |
| Costs: Hand-Fed Foods Grazing Forage Crops Agistment Labour Transport Miscellaneous | £, 30 217 44 276 344 27 | 3 : 19 : 4 : 25 : 31 : 2 | 38 263 26 333 | 3 21 2 26 30 3 | 220 218 43 263 | 16 3 19 |
| Total | <u>1110</u> | 100 | 1275 | 100 | : 1383 | 100 |
| Margin (Output - Costs) | 998 | | : 861 | | : 516 | |
| Number of Flocks | 1 | 1 | 11 | | : 13 | |

Table XI.

Output, Costs and Margins Per Flock by Size of Flock.

52 Identical Hill Flocks.

600-800 Breeding Ewes.

| enter ette er en statistische der einem Gebenstate, mit vom die und vorzohe dessendenden versche des deutspromenen | 1960/61 1961/62 | | : : 1962 | /63 | | | | |
|--|--|-------------------------------|---|--------------------------|--------------------------------|-----------------------|------------------------|--------|
| Output: Opening Valuation of Sheep Purchases of Sheep | : 42 | €. 53 08 | : 3989 | | £. 3989 80 | | £ 409 | 7 |
| Total (A) | : 43 | 61 | . 400 | 69 | . 4189 | | | |
| Closing Valuation of Sheep Sales of Sheep Value of Wool Hill Sheep Special Payment | | | 4019 2020 541 189 | | 2020 : 541 : | | 390 193 49 34 | 6 6 |
| Total (B) | : 72 | 33 | 676 | 69 | : 6677 | | | |
| Output (B - A) | 28 | 72 | 270 | 00 | 248 | 8 | | |
| Costs: Hand-Fed Foods Grazing Forage Crops Agistment Labour Transport Miscellaneous | £. 20 295 10 381 486 22 230 | 1 20 1 26 34 2 | 38 : 332 : 40 : 299 : 508 : | 2 23 3 20 35 | 268 : 338 : 6 : 425 : | %. 14 18 - 22 31 1 14 | | |
| Total | 1444 | 100 | 1466 | 100 | 1916 | 100 | | |
| Margin (Output - Costs) | 12 | 28 | 12 | 34 | 572 | 2 | | |
| Number of Flocks | h)) | 11 : | E | 11 | 9 |) | | |

Table XII.

Output, Costs and Margins Per Flock by Size of Flock.

52 Identical Hill Flocks.

800 Breeding Ewes and Over.

| 医全球性 医克勒氏性 医克勒氏性 医克勒氏性 医 电电子 医二种 | · "我们就是我们的,你就是一种我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就会 "我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的 | | | | | | | |
|---|--|---|----------------------------|-------------------------------|-------------------------------|------|------------------|--------|
| | 1960/61 | | 1961/62 | | : : 1962/63 | | | |
| Output: Opening Valuation of Sheep Purchases of Sheep | : 735 | €. 59 60 | : 710 | 3.)1 38 | . 691 . 5 | | | |
| Total (A) | : 74 | 19 | 718 | 39 | : : 697 | 4 | | |
| Closing Valuation of Sheep Sales of Sheep Value of Wool Hill Sheep Payment | 726 339 109 | 93 | 7140 2955 987 359 | | 2955 : 987 : | | 654 261 81 | 7 3 |
| Total (B) | : 119 | 59 | 1144 | F1 | : 10575 | | | |
| Output (B - A) | . 451 | +0 | 425 | 52 | : : 360 | 1 | | |
| Costs: Hand-Fed Foods Grazing Forage Crops Agistment Labour Transport Miscellaneous | £. 76 355 4 979 920 111 403 | 3 : 13 : - : 34 : 32 : 4 : | 19 1017 939 | 2 11 1 35 32 4 | 590 : 345 : 24 : 894 : 1005 : | • | | |
| Total | 2848 | 100 | 2898 | 100 | 3356 | 100 | | |
| Margin (Output - Costs) | 16 | 92 | 13 | 554 | : 245 | | | |
| Number of Flocks | | 11 : | | 12 | 1 | : 13 | | |

