SOME ASPECTS OF SHEET FARMING IN CANTERBURY.

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The problems confronting the sheep farmer on arable farms in Canterbury may be divided into two classes:-

- 1. Those relating to the vastareas of pure sheep country 'typical of the Bight stoney plains and arable downlands.
- 2. Those relating to the heavier dropping land.

As little, or if any, of the light plains land is pet under irrigation, sheep farming presents 8 fairly easy problem there. It is a simple type of farming, in providing suitable permanent pastures, a sufficient supply of winter feed., such as turnips, and an area of early feed, such as Western Wolths or green feed to tide the ewes over between the turnips and grass.

Moreover, as the carrying capacity runs from one ewe to the acre, to one ewe to one and a half acres, there is little difficulty in keeping the pastures clean and healthy, even with the low annual rainfall..

The heavier croping land is a different proposition in that the carrying capacity is raised to from three to five ewes per acre, and in some cases even more.

This heavy stocking undererratic climatic conditions. such as caused by the hot north west winds' and low summer rain fall combined with the long winter, makes prefitable sheep farming on this type of land a problem requiring much planning and consideration.

It may be asked, "Wh go in for sheep farming on this heavy scil, why not stack to cropping or dairying?" The answer-in regard to cropping is simply that the area of this land is too gxcnt for the population. In 1933, when even a slight increase in acreage was sown ir wheat, the result was a surplus over the domestic requirements which had to be exported at a price much below tha cost of production.

Owing to climatic conditions and higher production costs Canterbury cannot compete in the world's grain markets. Dairying is in the same position. Climatic conditions again make the cost of production too high, and as the only market for dairying products and by products is Great Britain, the present outlook is Thing but bright.

Britain is determined to stand by her own farmers, 65% of whom have holdings under 50 acres, and 89% holdings of under 150 acres. With this large number of small holdings of a size undoubtedly adapted for cows, pigs, 'and poultry, it looks like better business for the Centerbury for more to concentrate more on fat lamb production with ewe mutton and woolas by products, especially as this would make up to some extent for the market fox oats and chaff which has been lost by the use of mechanical power.

Although many of the practices in providing suitable sheep feed are applicable to both light and heavy land, it is the purpose of this paper to deal with sheep farming on the heavier Centerbury country, and the farm of "Craigburn" will be used for illustrative purposes.

On this form a certain amount of mixed cropping is carried on, but the main object is the breeding of stud sheep, which comprises a flock of 450 Romney ewes, and 300 Southdown ewes.

"Chaigburn" consists of 240 acres of heavy eropping land and 140 eres of lighter river land with ston yridges running through. The 140 acre block is laid down in Hawkes Bay ryegrass and white clover, these pastures are topdressed with 15 cwt. of lime' and 22 i f super an acre.

The 240 acres of heavy land is worked in a seven course rotation, the rotation being:

First year

Second "Peas 2, oats 2
Third "Winter green feed, summer fallow.
Fourth "Western Wolths and Red Clover.
Fifth "Western Wolths and Red Clover
Sixth "Swedes and Mangolds.
Seventh "Potatoes and Rape.

After the peas and cats are harvested the ground is immediately sown in Algerian cats for winter green feed with 12 cwt. of super and 2 cwt. sulphate of ammonia.

This is ploughed again in October and the paddock summer fellowed. It is then sown down in February in Western Wolths and Red Clover. This provides late winter and early spring feed for the ram hoggets.

> If summer feed is plentiful it is shut up in October and cut for hay, and the aftermath used for finishing off the rams in February and March. To get the best results from Western Wolths the land must be summer fallowed. The practice used to be to sow the Western Wolths immediately the peas were harvested, but unless the harvest was early and the weather suitable, the risk was too great as the Western Welths did not come in early enough and the Red Olover strike was usually poor. This unsatisfactory clever strike consequently resulted in an unprofitable aftermath and second year's grazing. In the event of an early harvest the wheat stubble is turned over and sown in Algerian oats with la cwt. super and 2 cwt. sulphate of ammonia. crop which comprises swedes and mangolds, is carted off and fed to the ewes on the permanent grass paddocks, the ewes receiving at the rate of eight to ten pounds of roots per ewe for the Romney ewes, and six to eight pounds for the Southdown ewes, the quantities being increased from the lower to the higher rate as the paddock feed decreases and the pregnancy period advances. Wire netting racks are erected in the paddocks and these are kept filled with hay. (中) 医外侧沟部 (中) 电电流

In a dry year when no hay is saved, boxes are put out and I lb. of out sheaf chaff is fed per ewe. It is necessary to have enough boxes so that all the ewes have room to feed at the same time. The self feeding boxes for this purpose cannot be too strongly condemned because a few of the stronger and clder ewes will take possession and keep off the younger and weaker ones.

The method here advocated is undoubtedly the most successful way of winter feeding ewes on heavy land, and it has been found that the ewes do better than when folded on the roots.

Since the ewes have been fed in this way, no cases of anti-pasture paralysis in the ewes,,, or pulpy kidney in the lambs has appeared. But when the ewes wore folded on the roots, both these diseases were common in the flock.

Swedes a r.e fed till about a for thight before lambing; when the ewes are put on to mangolds. The provious practice was to put the ewes at this time on to green feed but it was found that they did not milk so well as they did on mangolds fed out on the permanent pastures.

Some years ago the ewes were put on a paddock of Cape barley, but when lambing commenced they did not have enough milk for the lambs, so they were taken off and put on a three years old Hawkes Bay paddock, which immediately increased lactation. The crops provided by the seven course rotation, with the exception of the wheat and potatoes and a portion of the peas, are used entirely for sheep feed.

the ewes when no hay is saved, and the balance of the grain fed to the young sheep during winter, and also to flush the ewes before being put out with the rams. Halfa pound of oats per owe per day for three weeks is fed at this time. A portion of the peas is fed to the young sheep. This system of sheep farming on heavy land seems to work very well, but a serious problem is to provide grazing in January and February. Toparessing the permanent pastures brings the grass in about three weeks earlier, but these toparessed pastures, although they provide tremendous: quantities of feed in the late spring and early summer, months, go off quicker and do not come away again till the autumn rains, start growth.

To overcome this difficulty it is being contemplated to replace a portion of the Hawkes Bay pasture with a mixture of Akaroa cocksfoot and Montgomefy red clover; the intention being to shut up the cocksfoot and clover during Nevember and December SO as to provide feed in January. and February.

Expression of opinion on this point would be welcome from the conference.

Bay ryegrass especially when topdressed, in that it takes absolute possession and smothers out all other, grasses and clovers with the exception of Crested Dogstail, and although it has a dormant period in late summer, it certainly responds to the autumn rains and comes away quickly at that time. However, its strong point is that it is Permanent and improves with age.

Points worthy of note are :-

In That for the winter feeding of the ewe flock it is much more profitable to cart the roots out to the ewes. About half the acreage is required and as the crop costs about £8-10/- per acre to grow, the saving in growing the smaller acreage more than pays for the cost of carting out. By this method the ewes are kept in better health, and this consequently has a tremendous beneficial effect on the lambs.

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- 2. The advantage gained by summer fallowing previous to sowing down the temporary pasture of Western Wolths and red clover.
- 3. The increase of green feed from application of $\frac{1}{2}$ cwt. sulphate of ammonia mixed with the super.
- 4. The difficulty in providing a balanced amount of grazing from September to March as the topdressed Hawkes Bay rye provides too much in spring and early summer and not enough in late summer and early autumn.

5 That a grass paddock or mangolds are better feed for bringing ewes to their milk than green

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