

# Feeding ewes consistently in winter

Gerard Hall

Putting together a winter feed budget can be a simple exercise.

It just involves working out how much feed you have on hand and the amount of feed you need to get through to spring.

The difference between the feed you have and the feed you need will determine the likely pasture covers when you spread the ewes out for lambing or set-stock the cows for calving.

At Meat & Wool New Zealand's Southern Sheep and Beef Council's recent Woodland's field day, Gore farm consultant Graham Butcher said there were two sorts of feed budgets.

The first establishes if there will be enough feed available to get through to spring. The second includes more of the detail including the amount of grass on each paddock or block, feed intakes needed each day, and post-grazing residuals. The residuals give the information to work out the number of days or breaks in each paddock.

Adding that they are sometimes under-estimated, Butcher says

Gore-based farm consultant Graham Butcher offered some useful feed budgeting tips at the recent Woodlands field day.

Many farmers do feed budgets in their heads, but for some putting it down on paper is helpful.

With feed tighter going into this winter in most of the country than it was at this time last year, spending a few hours putting a winter feed budget together will pay off handsomely.

Butcher's advice is to take a day out to assess the amount of feed on enough paddocks to last each ewe and hogget mob through to scanning. The same exercise can be carried out on the paddocks that will be grazed from pregnancy scanning through to the time ewes will be set-stocked for lambing.

Farmers need to know mob sizes, how they want to feed them, paddock sizes, grass covers in each paddock and allow for a realistic residual after grazing.

Ideally this sort of budget is suited

farmers also need to know accurate stock liveweights because the heavier they are the more feed they need to maintain their weight and body condition score (BCS).

Working out a feed budget and feeding ewes consistently through the winter means they will more readily maintain their BCS. Dropping one BCS in the ewe flock over the winter can be costly. It could result in 6%-10% fewer lambs on the ground, up to 4% more

ewe deaths, and lighter lambs at weaning.

The ingredients of a feed budget include knowing paddock sizes, and converting pastures covers, yields of the winter crop, and the amount of silage, balage or hay in the shed into the common currency - kilograms of drymatter (kgDM). Once that is known, it is a relatively simple exercise to work out whether there will be enough feed to get through winter. The feed

table 1: example of simple feed budget from May 1 to spreading out ewes on September 10 - 13 days

| Feed on hand                                        | Kg/DM          |
|-----------------------------------------------------|----------------|
| 180ha average cover 1600kg DM                       | 288,000        |
| 180ha winter growth rate 5kg DM/day (50% available) | 59,850         |
| 15ha crop @ 11,000kg DM, 85% utilisation            | 140,250        |
| 120bales balage@220kg DM, 85% utilisation           | 22,440         |
| 50% of winter growth                                | 90,000         |
| <b>Total feed available</b>                         | <b>600,540</b> |
| <b>Ewes</b>                                         | <b>200,000</b> |
| Pre-lamb lift                                       | 15,000         |
| Hoggets                                             | 56,000         |
| Calves                                              | 73,000         |
| <b>Total feed required</b>                          | <b>344,000</b> |
| <b>Feed left over</b>                               | <b>256,540</b> |
| <b>Pasture cover at set stocking for lambing</b>    | <b>1425</b>    |

budgets will also identify the gaps to be plugged.

Butcher suggests a good place to begin is by taking a "global or helicopter view" of pasture covers, preferably late in the summer. This involves taking a stock take of the feed on hand (table 1). Then establish the target May 1 or pre-winter average pasture cover across the farm that is needed to feed all stock to requirements so that they get through to spring in optimum BCS.

Assuming all the 15ha of crop and supplement is fed, this example suggests pasture covers across the 180ha when the ewes are spread out for lambing will most likely be about 1425kg DM/ha.

To make this feed budget work, Butcher suggests a May 1 cover of no less than 1600kg DM/ha. If the May 1 cover is 1400kg DM/ha then the cover out the other side will be 1225kg DM/ha, 200kg DM/ha less. Then the question becomes will spreading the ewes out on 1425kg DM/ha covers at lambing be okay?

Butcher says this will depend on your lambing date and when you expect to get spring growth.

"If lambing coincides with spring

## Winter feed budget will pay off handsomely

to a spreadsheet. For those who are not computer savvy, Butcher suggests having a yarn with their children and learn how to. "It's a good practical project."

Then pick a fine day and get out and measure the covers (kgDM) on each paddock that will be grazed as part of the winter round. Remember as ewe intakes are increased as they near lambing the post-grazing residuals also have to be increased. In the last month before lambing, twinning ewes require an intake of 2kg DM/day. This compares to about 1.2kg DM/day they need in the early part of winter through to pregnancy scanning.

Early in the rotation Butcher says a farmer can round up the number of days spent in a paddock or on a break up. As winter progresses and lambing nears he suggests they be rounded downwards.

Of course adjustments will be made on the way through; each year will be different. There will be unders and overs, with a day or two

| Paddock | Area (ha) | Cover kg DM/ha July 11 | Intake kg DM/ewe/day | Grass growth | Residual | Available DM | Days in paddock | Actual days in paddock |
|---------|-----------|------------------------|----------------------|--------------|----------|--------------|-----------------|------------------------|
| 1       | 8.84      | 1750                   | 1.2                  | 5            | 600      | 10387        | 5.4             | 6                      |
| 2       | 8.01      | 1293                   | 1.2                  | 5            | 600      | 5991         | 3.1             | 3                      |
| 3       | 4.18      | 3200                   | 1.2                  | 5            | 600      | 11429        | 6.0             | 6                      |
| 4       | 4.89      | 2970                   | 1.2                  | 5            | 600      | 12078        | 6.3             | 4                      |
| 5       | 5.05      | 2750                   | 1.2                  | 5            | 600      | 11514        | 3.9             | 4                      |
| 6       | 4.53      | 2700                   | 1.3                  | 5            | 700      | 9717         | 4.0             | 4                      |
| 7       | 5.45      | 2190                   | 1.4                  | 5            | 700      | 9047         | 4.0             | 4                      |
| 8       | 3.80      | 2259                   | 1.4                  | 5            | 700      | 6608         | 3.0             | 3                      |
| 9       | 6.00      | 1950                   | 1.4                  | 5            | 700      | 8040         | 3.6             | 3                      |
| 10      | 5.20      | 1580                   | 1.5                  | 5            | 800      | 5148         | 2.1             | 2                      |
| 11      | 5.00      | 1890                   | 1.5                  | 5            | 800      | 6600         | 2.8             | 2                      |
| 12      | 5.54      | 2402                   | 1.5                  | 5            | 800      | 9651         | 4.0             | 4                      |
| 13      | 5.0       | 2840                   | 1.6                  | 5            | 800      | 11938        | 4.5             | 4                      |
| 14      | 7.93      | 2282                   | 2.0                  | 5            | 900      | 13180        | 4.1             | 4                      |
| 15      |           |                        |                      |              |          |              |                 | 1                      |
| 16      |           |                        |                      |              |          |              |                 | 1                      |
| 17      |           |                        |                      |              |          |              |                 | 1                      |
| 18      |           |                        |                      |              |          |              |                 | 1                      |

table 2

gained here and there during a good spell of weather. Likewise a spell of bad weather might result in losing a few days.

Table two is an example feed budget. From July 13, post-pregnancy scanning for 1600 ewes, twinning ewes that will be set-

stocked for lambing on September 10. The last four days are one day a paddock. If not grazed they could be used for set-stocking.

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