

Feed budgeting: using the tool

The Dairy Australia Feed Budgeting tool can support you with feed planning and budgeting.

When buying in feed, the first question is: how much feed do you need? It is important to know the quantities of feed to buy each month for producing the monthly milk volumes to generate budgeted milk income and profit.

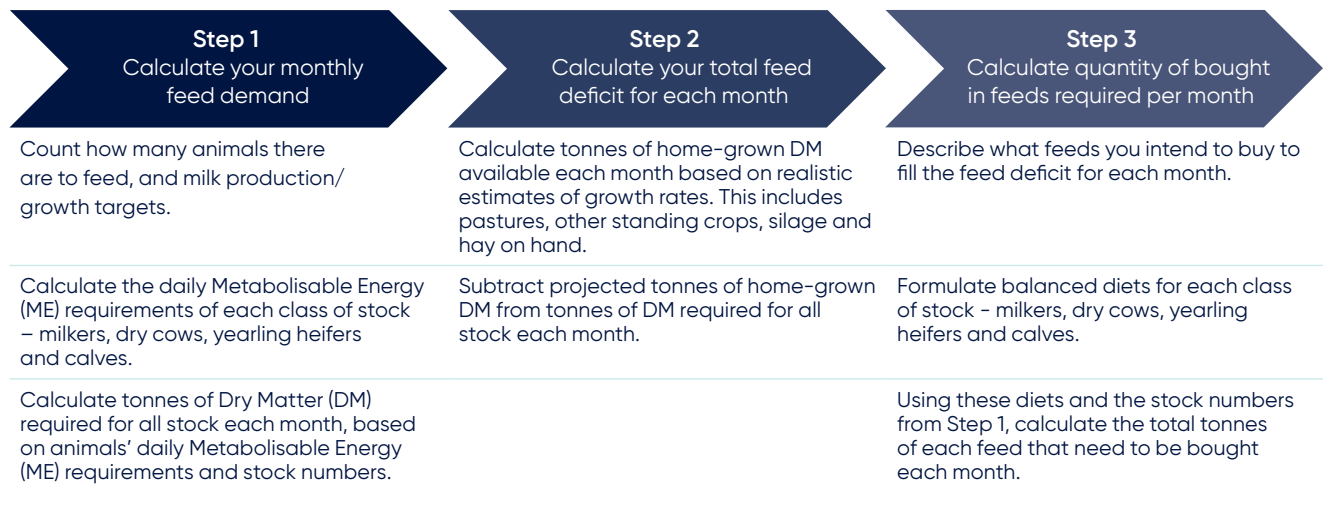
Access the tool on the Dairy Australia website.
dairyaustralia.com.au/feeding-and-farm-systems/nutrition-management/nutritional-strategies

Key messages

Do you know how much feed you need to buy?

Do you have the feed requirements of all your stock covered for the coming months?

A feed budget involves three steps:



Step 1

Calculate your monthly feed demand

- Be sure to do an accurate head count.
- Be realistic about the ME requirements of different classes of stock. See Table 1
- For milkers, adjust ME requirements for expected liveweight gain or loss, depending on stage of lactation.
- Table 2 shows the additional ME inputs needed for body condition score (BCS) gains. Note that cows are more efficient at converting feed into body condition while still milking than when dry. If necessary, seek help from an adviser to calculate ME requirements.

Table 1 Daily ME requirements for different classes of stock

Class of stock	Daily ME requirements
Milking cows	70–95 MJ ME for maintenance (depending on liveweight, walking activity, weather conditions) plus 5–5.5 MJ ME per litre of milk. Also allow for any change in body condition.
Dry cows	90–100 MJ ME (depending on liveweight).
Yearling heifers	80–100 MJ ME (depending on liveweight).
Calves	40–80 MJ ME (depending on liveweight).



Top tips

- Develop a month-by-month feed budget for all your stock.
- When calculating monthly feed demand, use accurate stock numbers and realistic ME requirements for different classes of stock.
- When calculating total feed deficit for each month, use sound estimates of pasture growth and utilisation rates, and quantities of home-grown hay and silage on hand.
- Make realistic allowances for feed wastage based on your intended feed-out methods.
- Revise your feed budget at least monthly, and also when your circumstances change.

It may be worth getting an adviser to help you do your feed budget, or to at least double check it.

Table 2 Additional ME inputs needed for body condition score (BCS) gains

Cow's liveweight	Additional MJ ME per day to increase BCS from 4 to 5					
	in 30 days		in 45 days		in 60 days	
	Lactating cow	Dry cow	Lactating cow	Dry cow	Lactating cow	Dry cow
400 kg (Jersey)	49	67	33	45	25	34
475 kg (Fresian x Jersey)	58	80	39	53	29	40
550 kg (Fresian)	68	94	45	63	34	47
650 kg (Holstein-Fresian)	80	110	53	74	40	55
750 kg (large framed Holstein-Fresian)	91	127	60	85	45	64

Feed Budgeting tool makes it easy

The Feed Budgeting tool supports you with estimating what quantities of feed you need to buy each month in three easy steps.

Features of the tool

- Calculates tonnes of feed dry matter required and supplied based on megajoules of metabolisable energy (MJ ME).
- Provides estimated daily growth rates for pastures at locations across all regions.
- Factors in wastage during feed-out.

Access the tool on the Dairy Australia website.

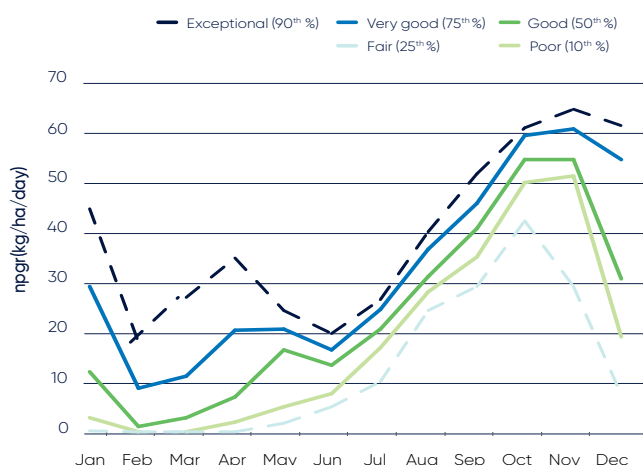
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Step 2

Calculate your total feed deficit for each month

- The Feed Budgeting tool estimates tonnes of pasture dry matter available to cows each month using monthly estimates of daily growth rates for locations across Australia based on simulations using the DairyMod model. (See Figure 1 for an example).
- For the nearest location to your farm, for a specific pasture type, select one of five alternative growth rates – exceptional, very good, good, fair or poor – based on how conditions expected for the coming month compare with long term trends for that month. Then select a high, moderate or low utilisation rate.
- If necessary, seek help from an adviser to estimate quantities of pasture and other home-grown feeds on-hand (tonnes Dry Matter).
- There are further instructions in the Feed budgeting spreadsheet.

Figure 1 Example: Colac, SW Vic. Pasture growth rates for perennial ryegrass (dryland)



Step 3

Calculate quantity of bought in feeds required per month

- Quantities of grain/concentrates and bought-in fodder entered should be based on formulated diets that are nutritionally well-balanced, and will maintain healthy rumen function and feed conversion efficiency. If necessary, seek help from a nutrition specialist.
- In a season where, if pasture availability is greatly reduced during the period budgeted, you may need to buy in a supplement with a higher level of crude protein or fibre than in normal circumstances.
- Make realistic allowances for feed wastage based on your intended feed-out methods. See Table 3. For more information, visit the Dairy Australia website and search for food wastage.

Table 3 Feed wastage using different feed-out methods

Feed-out method	Minimum %	Typical %	Maximum %
In the dairy at milking	0	1	2
In grazing paddock, on pasture	5	15	25
In sacrifice paddock, fed on bare ground, in ring feeders, or under a fence line	5	25	35
On permanent feed pad incorporating a compacted surface and purpose-built feed troughing	2	5	10
On permanent, fully developed feed pad with concrete surfaces	0	3	5

These figures assume dry conditions. They may not reflect the full range of wastage that might occur under wet conditions.

Example of wastage costs

The cost of wasting 25% of a \$14,000 load of hay is \$3,500. Reducing this wastage from 25% to 10% would save \$2,100, leaving a feed wastage cost of \$1,400.

The Feed Budgeting tool uses data from your region to assist with the planning of your farms feed requirements.

Revise your feed budget when circumstances change. For example, available feeds, number of animals to be fed.

For further information

Please visit dairyaustralia.com.au/feeding-and-farm-systems

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