

Feed Budget Tables

for the **break of the season**
in annual pasture systems of
southern Australia



lifetimewool

more lambs, better wool, healthy ewes

When to use these tables:

When green annual paddock feed isn't enough early in the season or managing ewes to targets over pregnancy and lactation. Use the Tables for Drought conditions when only dry feed is available.

Step 1. What they Need:

TABLE 1a. Energy Required by Ewes @ Condition Score 3 to maintain weight								
Maintenance energy (MJ/d) for ewes under paddock conditions							Confinement Fed	
Days pregnancy	small frame (45kg) maintain @ CS 3		medium frame (50kg) maintain @ CS 3		large frame (60kg) maintain @ CS 3		medium frame maintain @ CS 3	
	single	twin	single	twin	single	twin	single	twin
dry	7.8	7.8	8.4	8.3	9.9	9.9	6.7	6.7
50	8.1	8.2	8.6	8.7	10.1	10.3	6.9	7.2
70	8.3	8.7	9.1	9.4	10.5	10.8	7.4	7.7
100	9.3	10.1	9.7	10.7	11.8	13.2	8.3	9.6
130	11.6	14.0	12.8	14.7	14.8	17.8	10.9	11.7
days lactating	maintain @ CS 3		maintain @ CS 3		maintain @ CS 3		ewes and lambs	
	single	twin	single	twin	single	twin		
10	17.3	21.7	19.2	24.0	21.9	28.7	ask for advice on confinement feeding ewes and lambs	
30	18.7	23.9	20.8	26.5	23.4	29.8		
50	15.5	19.1	17.2	21.2	19.2	24.2		

TABLE 1b. Energy Required by Ewes @ Condition Score 2 to maintain weight								
Maintenance energy (MJ/d) for ewes under paddock conditions							Confinement Fed	
Days pregnancy	small frame (45kg) maintain CS 2		medium frame (50kg) maintain CS 2		large frame (60kg) maintain CS 2		medium frame (50kg) maintain CS 2	
	single	twin	single	twin	single	twin	single	twin
dry	6.9	6.9	7.2	7.2	8.7	8.7	6.7	6.7
50	7.1	7.2	7.4	7.7	8.8	9.0	6.9	7.2
70	7.4	7.7	7.8	8.4	9.3	9.5	7.4	7.7
100	8.3	9.4	9.0	10.3	10.7	11.7	8.3	9.6
130	10.1	12.9	10.9	13.7	13.1	15.9	10.9	11.7
days lactating	CS 3 0kg supplement		Maintaining CS 3 with supp		CS 2 0kg supplement		Maintaining CS 3 with supp	
	single MEM	Lwt g/h/d	single NEH	Oats kg/d	single NEH	Lwt g/h/d	single MEM	Oats kg/d
10	15.2	19.0	16.0	20.8	18.5	24.1	ask for advice on confinement feeding ewes and lambs	
30	16.1	21.3	17.8	24.0	19.9	26.7		
50	12.9	16.7	13.6	17.9	16.3	20.9		

Background:

This is only a guide – monitor your sheep to check that feeding rates are adequate. No account has been made for pasture growth rate, different composition or quality of feed.

These tables are based on GrazFeed® values for pastures with 20% clover and 12MJ/kgDM. For more detailed results refer to GrazFeed®.

Step 2. What they can eat:

TABLE 2a.
Intake for small frame ewes (MJ/day)

FOO	Small frame ewe (45kg)		
	d0-150	mid lactation	
	any	single	twin
300	6.0	9.7	10.8
500	7.2	10.7	11.9
800	9.6	15.5	16.1
1000	11.3	16.9	18.8
1200	12.6	18.8	21.0

TABLE 2b.
Intake for medium frame ewes (MJ/day)

FOO	Medium frame ewe (50kg)		
	d0-150	mid lactation	
	any	single	twin
300	6.0	8.4	10.2
500	7.8	11.8	13.1
800	10.8	15.0	17.4
1000	12.0	18.0	20.4
1200	13.2	20.4	22.8

TABLE 2c.
Intake for large frame ewes (MJ/day)

FOO	Large frame ewe (60kg)		
	d0-150	mid lactation	
	any	single	twin
300	7.2	9.6	10.2
500	9.6	14.2	15.8
800	12.8	19.2	21.5
1000	15.1	22.6	25.2
1200	16.8	25.1	28.0

Step 3. Losing or gaining weight?

Deficit MJ/day	expected loss g/h/d	CS in 10 days (45kg)	CS in 10 days (50kg)	CS in 10 days (60kg)
2	-70	-0.1	-0.1	-0.1
4	-135	-0.2	-0.2	-0.1
6	-200	-0.3	-0.2	-0.2
8	-270	-0.4	-0.3	-0.3
10	-340	-0.5	-0.4	-0.3
Surplus MJ/day	expected gain g/h/d	CS in 10 days (45kg)	CS in 10 days (50kg)	CS in 10 days (60kg)
2	40	0.1	0.0	0.0
4	75	0.1	0.1	0.1
6	120	0.2	0.1	0.1
8	160	0.2	0.2	0.2
10	200	0.3	0.2	0.2

Step 4. How much to feed?

TABLE 4. Approximate Feed Values

Grain	ME (MJ/kg DM)*	Crude Protein %	DRY MATTER %
Oats	10.4	8.8	90
Barley	12.3	10.8	90
Wheat	13.1	14.2	90
Triticale	13.0	12.0	90
Lupins	13.1	31.3	90
Oaten hay	9.0	6.0	85

* grains vary considerably, where possible have your feed tested.

TABLE 5.
Ration to be Fed
(ME of ration in left hand column and energy deficit in body of table)

Ration to be fed (kg as fed assuming 90% dry matter)										
ME of feed	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
6.0	0.5	1.1	1.6	2.1	2.7	3.2	3.8	4.3	4.9	5.4
6.5	0.6	1.2	1.8	2.3	2.9	3.5	4.1	4.7	5.3	5.9
7.0	0.6	1.3	1.9	2.5	3.2	3.8	4.4	5.0	5.7	6.3
7.5	0.7	1.4	2.0	2.7	3.4	4.1	4.7	5.4	6.1	6.8
8.0	0.7	1.4	2.2	2.9	3.6	4.3	5.0	5.8	6.5	7.2
8.5	0.8	1.5	2.3	3.1	3.8	4.6	5.4	6.1	6.9	7.7
9.0	0.8	1.6	2.4	3.2	4.1	4.9	5.7	6.5	7.3	8.1
9.5	0.9	1.7	2.6	3.4	4.3	5.1	6.0	6.8	7.7	8.6
10.0	0.8	1.8	2.7	3.6	4.5	5.4	6.3	7.2	8.1	9.0
10.5	0.9	1.9	2.8	3.8	4.7	5.7	6.6	7.6	8.5	9.5
11.0	1.0	2.0	3.0	4.0	5.0	5.9	6.9	7.9	8.9	9.9
11.5	1.0	2.1	3.1	4.1	5.2	6.2	7.2	8.3	9.3	10.4
12.0	1.1	2.2	3.2	4.3	5.4	6.5	7.6	8.6	9.7	10.8
12.5	1.1	2.3	3.4	4.5	5.6	6.8	7.9	9.0	10.1	11.3
13.0	1.2	2.3	3.5	4.7	5.9	7.0	8.2	9.4	10.5	11.7
13.5	1.2	2.4	3.6	4.9	6.1	7.3	8.5	9.7	10.9	12.2
14.0	1.3	2.5	3.8	5.0	6.3	7.6	8.8	10.1	11.3	12.6
14.5	1.3	2.6	3.9	5.2	6.5	7.8	9.1	10.4	11.7	13.1

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