

RECORD OF GRAZING EVENTS



Lewis Kahn and Judi Earl
Agricultural Information & Monitoring Services

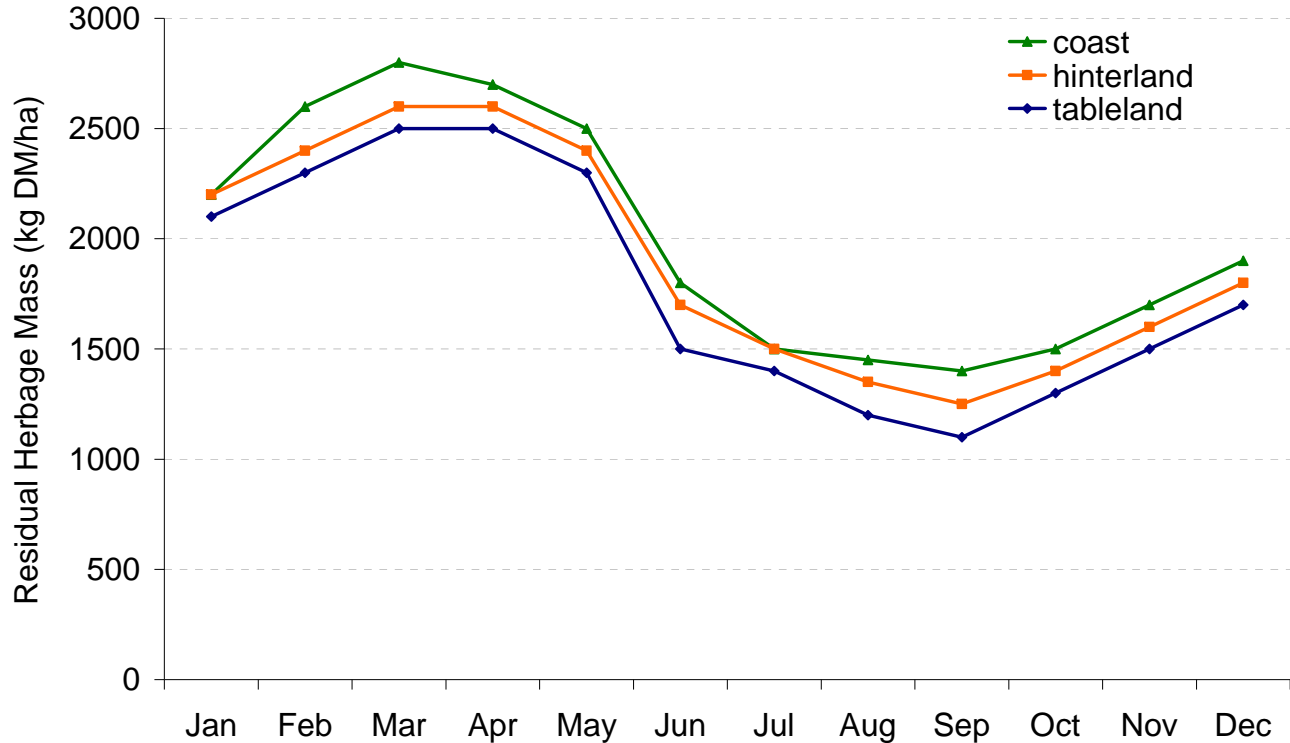
AIMS
Agricultural Information
& Monitoring Services



Low and ideal values for the 12 key pasture checklist points

| | Low (<i>less than</i>) | Ideal |
|--|--|--|
| Herbage mass (kg DM/ha) - sheep - cattle | 900 1,200 | 1,500 – 3,000 2,000 – 4,000 |
| Herbage mass - % edible | 80% | 100% |
| Percentage green <i>spring, summer & autumn</i> | 60% | more than 70% |
| Ground cover | 95% | 100% |
| Broadleaf plant component | 5% | 10 – 15% |
| Legume component <i>spring to early summer</i> | 10% | 15 – 25% |
| Annual grass component <i>autumn, winter & spring</i> | 5% | 10 – 15% |
| Perennial grass component | 30% | 60 – 80% |
| Diversity of perennial grasses | 3 | more than 7 |
| Pasture growth rate - spring - summer - autumn - winter | 15 15 10 0 | 45 50 25 10 |
| Water use efficiency | 6 | more than 10 |
| Pasture utilisation rate - spring - summer - autumn - winter | 35 – 40% 15 – 20% 25 – 30% 100 – 110% | 55 – 60% 35 – 40% 45 – 50% 140 – 150% |

Residual herbage mass should be managed to vary throughout the year



Residual herbage mass is the amount of feed in the paddock at the end of a grazing event.

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Disclaimer

This publication is intended to provide general information on stock management and pasture assessment. The authors acknowledge that pasture types may vary and will not be responsible for any loss caused by reliance on this publication.

Acknowledgements

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This document was prepared by Dr Lewis Kahn and Dr Judi Earl of Agricultural Information & Monitoring Services.

Tel. 0267711273

0267792286

Email: lewiskahn@bigpond.com

judiearl@auzzie.net

The purpose and use of this record of grazing events

This booklet allows you to record grazing events for your paddocks. The recording sheets (pages 7 – 53) could be used in a number of ways but we suggest that the paddocks' grazing history is recorded on a chronological basis. For example, if animals grazed *dam paddock* then *hilltop paddock* and then *road paddock*, you would enter the paddocks into the recording sheet in that order and record the dates of grazing for each paddock. We also suggest that you record the herbage mass prior to and at the end of each grazing event. Instruction is also provided for estimation of herbage mass, the percentage of the herbage that is edible and calculation of a feed budget. Tables of DSE values for cattle and sheep are provided at the end of this booklet.

This record keeping will assist you to update your grazing plan using the Graze Plan Calculator produced by AIMS. The information that you record can be used by the Graze Plan Calculator to determine pasture growth rate, water use efficiency and pasture utilisation, allowing you to compare the performance of your paddocks.

We recommend that you update your grazing plan at least every month by transferring the grazing details from this booklet into the Graze Plan Calculator.

Estimating herbage mass

- Measured as kg dry matter/ha (kg DM/ha)
- Controls feed intake of animals and pasture regrowth rate
- Used to calculate feed budgets and set appropriate stocking rates

Low: less than 900 kg DM/ha (sheep); 1,200 kg DM/ha (cattle)

- Feed intake and pasture growth rate will be greatly restricted and desirable species may not persist

Too much: more than 3,000 kg DM/ha (sheep); 4,000 kg DM/ha (cattle)

- No advantage for feed intake, pasture quality and growth rates decline, shading may reduce the number of plants

Ideal: 1,500 – 3,000 kg DM/ha (sheep); 2,000 – 4,000 kg DM/ha (cattle)

- Feed intake, diet selection and pasture growth rates optimised

To calculate:

Step 1: Measure pasture height (cm) from the ground to the top of the bulk of leaves; do not extend leaves and do not measure to the top of seedheads. See pasture height photo (page 3).

Step 2: Estimate pasture density in terms of kg DM/ha for every centimetre of pasture height

Table: Guide to the estimation of pasture density (kg DM/ha/cm)

| Pasture density (kg DM/ha/cm) | Description |
|-------------------------------|---|
| 150 | Ground readily seen through sparse pasture |
| 200 | Ground seen through sparse pasture (see ground cover photo) |
| 250 | Ground occasionally seen through average pasture |
| 300 | Ground not visible through average pasture |
| 350 | Good pasture density (see ground cover photo) |
| 400 | Dense pasture |
| 450 | Very dense pasture |

See pasture density photos (page 2)

Step 3: Multiply pasture height x pasture density

(eg. 10 cm x 250 kg DM/ha/cm = 2,500 kg DM/ha herbage mass)

Pasture density



150 kg DM/ha/cm



200 kg DM/ha/cm

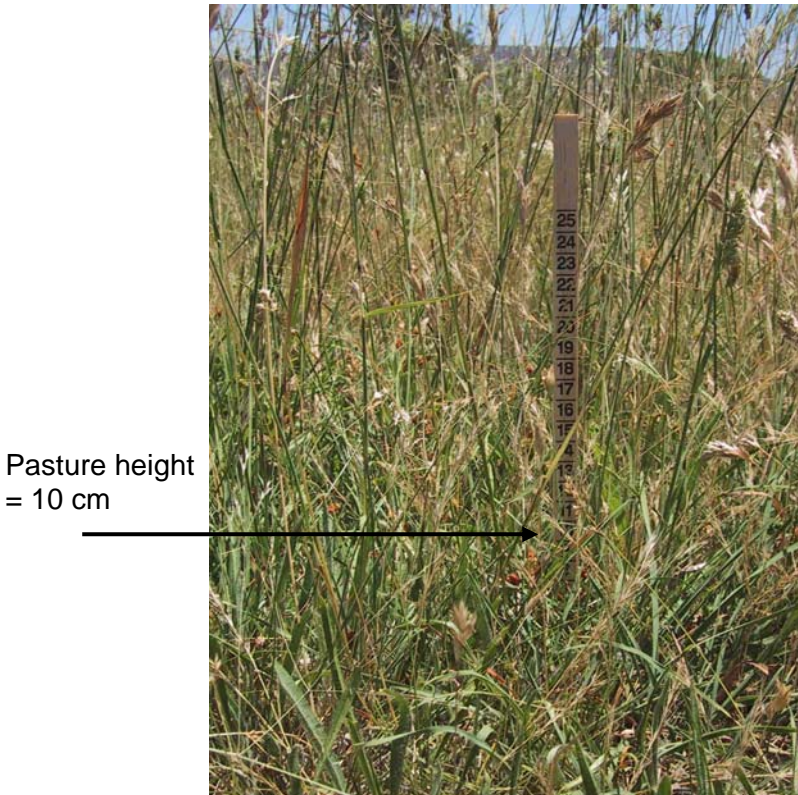


250 kg DM/ha/cm



300 kg DM/ha/cm

Pasture height



(B) Herbage mass – *percentage edible*

- Percentage of herbage mass that would be eaten by livestock
- Measured as percent of herbage mass (%)
- Your estimate may change with season. For example, *Poa tussock* may be considered not edible during spring, when other green pasture is present but at the end of winter may be considered as a valuable source of roughage
 - Low: less than 80%
 - Marginal: 80 – 99%
 - Ideal: 100%

Feed budgeting

- Is a process used to determine how many stock can be run on an area for a given period of time
 - Feed budgeting does not determine feed quality requirements of livestock which should be assessed separately
- Is a process to guard against over and under grazing
- Requires knowledge or estimates of:
 - Grazable area, which may be a paddock or a farm
 - Type of stock to be run during a nominated period
 - DSE rating of the type of stock based on their nutritional requirements and estimated growth rate (*provided at the end of this booklet*)
 - Herbage mass at the start of the period
 - Desired herbage mass at the end of the period
 - Consult herbage mass targets provided earlier in this checklist
 - Minimum herbage mass should only be reached at the very end of the non-growing period, if at all. If minimum herbage mass is reached this should not be less than 800 kg DM/ha for sheep and 1,200 kg DM/ha for cattle.
 - Grazing to below these minimum levels will limit the rate of pasture regrowth and likely result in inadequate ground cover
- Feed budgets should be conducted in Autumn and cover the intervening period till Spring. For example, areas to the west of the Tablelands should cover the period 1st March – 1st September and areas to the east of the Tablelands 1st April – 1st October. This feed budget will aid stocking decisions over a difficult time of year
- Feed budgeting is an important tool which can be used in conjunction with a grazing plan

Feed budgeting

Information required:

Farm area (ha)

Length of period (days)

Type of stock during period

DSE rating for stock type

Herbage mass at start of period

Desired herbage mass at end of period

Estimated pasture growth rate (PGR)

| | | |
|------------|-------------------------------------|--|
| A | Farm area (ha) | |
| | Start of period (date) | |
| | End of period (date) | |
| T | Length of period (days) | |
| S | Type of stock | |
| D | DSE rating (DSE/stock unit) | |
| HM1 | Start herbage mass (kg DM/ha) | |
| HM2 | Desired end herbage mass (kg DM/ha) | |
| PGR | Pasture growth rate (kg DM/ha/d) | |
| 1 | Available feed (kg DM/ha/d) | |
| 2 | Number of stock units/ha | |
| 3 | Number of stock units | |

$$1. \text{ Available feed} = \frac{(\text{HM1} - \text{HM2})}{\text{T}} + \text{PGR}$$

$$2. \text{ Number of stock units/ha} = \frac{\text{available feed}}{\text{DSE rating 'D'}}$$

$$3. \text{ Number of stock units} = (\text{number of stock units/ha} \times \text{paddock area 'A'})$$

Record of grazing events

Grazing details

| Paddock name | Date in | Date out | Days grazed | Herbage mass in | Herbage mass out | DSE in mob | Supplement type and amount |
|---------------------------------|----------------|-----------------|--------------------|------------------------|-------------------------|-------------------|---|
| <i>Example: Dam paddock</i> | <i>12/2/09</i> | <i>15/2/09</i> | <i>2.5</i> | <i>2700</i> | <i>2300</i> | <i>4200</i> | <i>Cottonseed meal 100 g/hd/day</i> |
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DSE rating for dry cattle

| Weight of steer or dry heifer (kg) | Growth rate (kg/day) | DSE rating |
|---|-----------------------------|-------------------|
| 200 | 0 | 3.5 |
| 250 | 0 | 4.5 |
| 300 | 0 | 5.0 |
| 350 | 0 | 6.0 |
| 400 | 0 | 7.0 |
| | | |
| 200 | 0.5 | 6.0 |
| 250 | 0.5 | 7.0 |
| 300 | 0.5 | 7.5 |
| 350 | 0.5 | 8.5 |
| 400 | 0.5 | 9.5 |
| | | |
| 200 | 1.0 | 8.5 |
| 250 | 1.0 | 9.5 |
| 300 | 1.0 | 10.0 |
| 350 | 1.0 | 11.0 |
| 400 | 1.0 | 12.0 |

DSE rating for cows

| Weight of cow (kg) | Pregnancy/ lactation | DSE rating |
|---------------------------|-----------------------------|-------------------|
| 400 | dry | 7.0 |
| 400 | pregnant early | 8.0 |
| 400 | pregnant late | 9.5 |
| 400 | lactating early | 14.0 |
| 400 | lactating late | 17.0 |
| | | |
| 500 | dry | 9.0 |
| 500 | pregnant early | 10.0 |
| 500 | pregnant late | 11.5 |
| 500 | lactating early | 16.0 |
| 500 | lactating late | 19.0 |

DSE rating for dry sheep

| Weight of sheep (kg) | Growth rate (g/day) | DSE rating |
|-----------------------------|----------------------------|-------------------|
| 30 | 0 | 0.7 |
| 40 | 0 | 0.8 |
| 50 | 0 | 1.0 |
| 60 | 0 | 1.2 |
| | | |
| 30 | 50 | 0.9 |
| 40 | 50 | 1.0 |
| 50 | 50 | 1.3 |
| 60 | 50 | 1.5 |
| | | |
| 30 | 100 | 1.1 |
| 40 | 100 | 1.2 |
| 50 | 100 | 1.5 |
| 60 | 100 | 1.7 |

DSE rating for ewes

| Weight of ewe (kg) | Pregnancy/ lactation | DSE rating |
|---------------------------|-----------------------------|-------------------|
| 40 | dry | 0.8 |
| 40 | pregnant - single | 1.0 |
| 40 | pregnant - twin | 1.1 |
| 40 | lactating – single | 2.0 |
| 40 | lactating – twin | 2.6 |
| | | |
| 50 | dry | 1.0 |
| 50 | pregnant - single | 1.1 |
| 50 | pregnant - twin | 1.2 |
| 50 | lactating – single | 2.2 |
| 50 | lactating – twin | 2.8 |
| | | |
| 60 | dry | 1.2 |
| 60 | pregnant - single | 1.3 |
| 60 | pregnant - twin | 1.4 |
| 60 | lactating – single | 2.4 |
| 60 | lactating – twin | 3.0 |